



## INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We Protect Hoosiers and Our Environment.*

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April 8, 2011

Ms. Susan Hedman  
Regional Administrator  
U.S. Environmental Protection Agency  
Region 5  
77 West Jackson Boulevard  
Chicago, IL 60604-3950

Dear Ms. Hedman:

Re: Request for Redesignation Petition and  
Maintenance Plan Under the Annual  
National Ambient Air Quality Standard for  
Fine Particles for the Southwestern Indiana  
Nonattainment Area

The Indiana Department of Environmental Management (IDEM) submits a draft Redesignation Petition and Maintenance Plan for the Southwestern Indiana Nonattainment Area, which was designated as nonattainment of the annual standard for fine particles on April 5, 2005. IDEM conducted a public hearing concerning the Redesignation Petition and Maintenance Plan on March 15, 2011, and the public comment period concluded on March 18, 2011.

The attached document consists of the following:

### ***Redesignation Petition and Maintenance Plan***

- A formal request that the Southwestern Indiana Nonattainment Area be redesignated to attainment and reclassified as maintenance. It contains and meets the requirements set forth in Section 107 of the Clean Air Act and in United States Environmental Protection Agency (U.S. EPA) Redesignation Guidance.
- A maintenance year of 2022 is established and 2015 and 2020 are analyzed as interim years.
- The appendices of the document contain historical air quality trend data, projected emission inventory data and thorough documentation of the mobile emissions analysis.

### ***Motor Vehicle Emissions Budgets***

- Contained in the Redesignation Petition is a new Motor Vehicle Emissions Budget for 2015 and 2022. The Evansville Metropolitan Planning Organization's travel demand forecasting model and U.S. EPA's software program referred to as MOBILE6.2 were used to determine emissions for the annual fine particle nonattainment area.

- A conservative margin of safety was applied to the 2015 and 2022 projected emissions.
- The travel demand model was updated with the best available assumptions.
- Vehicle registration data gathered from the Indiana Bureau of Motor Vehicles were used to replace the MOBILE6 default vehicle age distribution.

IDEM requests that U.S. EPA proceed with review and approval of this submittal. If you have any questions or need additional information, please contact Scott Deloney, Chief, Air Programs Branch, at (317) 233-5694.

Sincerely,



Keith Baugues  
Assistant Commissioner  
Office of Air Quality

KB:sms

Enclosure:

Request for Redesignation Petition and Maintenance Plan Under the Annual National Ambient Air Quality Standard for Fine Particles for the Southwestern Indiana Nonattainment Area

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REQUEST FOR REDESIGNATION AND  
MAINTENANCE PLAN  
UNDER THE ANNUAL NATIONAL  
AMBIENT AIR QUALITY  
STANDARD FOR FINE PARTICLES

**Southwestern Indiana Area**

Prepared By:  
The Indiana Department of Environmental Management

April 2011

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**REQUEST FOR REDESIGNATION AND MAINTENANCE PLAN  
UNDER THE ANNUAL NATIONAL AMBIENT AIR  
QUALITY STANDARD FOR FINE PARTICLES**

**SOUTHWESTERN INDIANA AREA**

**1.0 INTRODUCTION**

This document supports Indiana's request that Dubois, Vanderburgh, and Warrick counties, Montgomery Township in Gibson County, Ohio Township in Spencer County, and Washington Township in Pike County (herein referred to as the "Southwestern Indiana Area"), be redesignated from nonattainment to attainment of the 1997 annual standard for fine particles. All monitors for fine particles in the Southwestern Indiana Area have recorded three years of quality assured ambient air quality monitoring data for the years 2007 through 2009, demonstrating attainment with the annual standard for fine particles; therefore, the Southwestern Indiana Area is eligible for redesignation.

Section 107 of the Clean Air Act (CAA) establishes specific requirements to be met in order for an area to be considered for redesignation, including:

- (a) A determination that the area has attained the annual standard for fine particles.
- (b) A State Implementation Plan (SIP) for the area under Section 110(k) is approved.
- (c) A determination that the improvement in air quality is due to permanent and enforceable reductions in emissions resulting from implementation of the SIP and other federal requirements.
- (d) A maintenance plan under Section 175A is fully approved.
- (e) A determination that all Section 110 and Part D requirements have been met.

A maintenance plan provides for the continued attainment of the air quality standard by an area for a period of ten years after the United States Environmental Protection Agency (U.S. EPA) has formally redesignated the area to attainment. The plan also provides assurances that even if there is a subsequent exceedance of the air quality standard, measures in the maintenance plan will prevent any future occurrences through contingency measures that would be triggered.

This document addresses each of these requirements and provides additional information to support continued compliance with the annual standard for fine particles.

**1.1 Background**

The CAA requires states with areas designated nonattainment of the applicable National Ambient Air Quality Standard (NAAQS) for fine particles to develop SIPs to expeditiously attain and maintain the standard. In 1997, U.S. EPA set daily and annual air quality standards for fine particles (PM<sub>2.5</sub>), as shown in Table 1.1. The terms "fine particles" and "PM<sub>2.5</sub>" are used synonymously throughout this document. The PM<sub>2.5</sub> standards were legally challenged and upheld by the U.S. Supreme Court in February of 2001. In 1999, Indiana began monitoring for

fine particle concentrations. U.S. EPA designated areas in Indiana under the annual fine particle standards on December 17, 2004, as attainment, nonattainment or unclassifiable, with an effective date of April 5, 2005.

**Table 1.1**  
**National Ambient Air Quality Standards for Fine Particles**

	<b>Annual</b>	<b>24-Hour</b>
1997 PM <sub>2.5</sub> Standard	<b>15 µg/m<sup>3</sup></b> Annual arithmetic mean, averaged over three years	<b>65 µg/m<sup>3</sup></b> 24-hour average, 98 <sup>th</sup> percentile, averaged over three years
2006 PM <sub>2.5</sub> Standard	<b>15 µg/m<sup>3</sup></b> Annual arithmetic mean, averaged over three years	<b>35 µg/m<sup>3</sup></b> 24-hour average, 98 <sup>th</sup> percentile, averaged over three years

Note: The Southwestern Indiana Area meets the 1997 and 2006 24-hour NAAQS for fine particles. Since this area is solely designated nonattainment under the 1997 annual standard for fine particles, this document only addresses the annual standard.

On December 17, 2004, based on 2001 through 2003 monitoring data, U.S. EPA designated the Southwestern Indiana Area as nonattainment of the annual standard for fine particles, and subject to Section 172 of the CAA, including the development of a plan to reduce nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), and direct PM<sub>2.5</sub> particle emissions and a demonstration that the area will meet the annual standard for fine particles by April 5, 2010. In order to satisfy these requirements, Indiana submitted a redesignation petition and maintenance plan to U.S. EPA on April 3, 2008, demonstrating that the Southwestern Indiana Area had met the NAAQS for fine particles by April 5, 2010, with an ample margin of safety. The Southwestern Indiana Area monitors have continued to meet the annual NAAQS for fine particles since the end of 2006.

There were no fine particle monitors in the Southwestern Indiana Area that violated the 1997 24-hour standard for fine particles and none that currently violate the 2006 24-hour standard for fine particles. As a result, the Southwestern Indiana Area was designated nonattainment for fine particles solely under the 1997 annual standard. Therefore, this document pertains only to the 1997 annual standard for fine particles.

The Southwestern Indiana nonattainment area for fine particles, as defined in Section 1.2, has not previously been subject to nonattainment area rulemakings for fine particles. However, the area had been subject to nonattainment area rulemakings under the 1-hour and the 8-hour ozone standards. The 1-hour ozone standard was revoked on June 15, 2005 and both Vanderburgh and Warrick counties were redesignated to attainment of the 1997 8-hour ozone standard on January 30, 2006.

## 1.2 Geographical Description

The Southwestern Indiana nonattainment area for fine particles consists of Dubois, Vanderburgh, and Warrick counties, Montgomery Township in Gibson County, Ohio Township in Spencer County, and Washington Township in Pike County. The Southwestern Indiana Area includes cities such as Evansville, Jasper, Boonville, Huntingburg, Petersburg, and Rockport and such

towns as Yankeetown, Inglesfield, Owensville, Ferdinand, Chandler, Newburgh, and Kasson. This area is depicted in Figure 3.1.

The agency responsible for assuring the nonattainment area for fine particles complies with the CAA requirements is the Indiana Department of Environmental Management (IDEM), which is responsible for the entire Southwestern Indiana Area. IDEM has worked cooperatively with U.S. EPA Region V to address attainment planning issues.

### 1.3 Status of Air Quality

Monitoring data for fine particles for the three years, 2007 through 2009, demonstrates that air quality has met the annual NAAQS for fine particles in the Southwestern Indiana Area. For reference purposes, 2010 monitoring data is included in Appendix A-2. This fact, accompanied by the permanent and enforceable reductions in emission levels discussed in Section 4.0, justifies a redesignation to attainment for the area based on Section 107(d)(3)(E) of the CAA.

## **2.0 REQUIREMENTS FOR REDESIGNATION**

### 2.1 General

Section 110 and Part D of the CAA list a number of requirements that must be met by nonattainment areas prior to consideration for redesignation to attainment. In addition, U.S. EPA has published detailed guidance in a document entitled "Procedures for Processing Requests to Redesignate Areas to Attainment," issued September 4, 1992, to Regional Air Directors. This document is hereafter referred to as "Redesignation Guidance." This Request for Redesignation and Maintenance Plan is based on the Redesignation Guidance, supplemented with additional guidance received from staff of the Attainment Planning and Maintenance Section of U.S. EPA Region V. The specific requirements for redesignation are listed below.

### 2.2 Fine Particle Monitoring

- 1) A demonstration that the annual standard for fine particles, as published in 40 Code of Federal Regulations (CFR) 50.13, has been attained. Fine particle monitoring data must show that violations of the annual ambient standard are no longer occurring.
- 2) Ambient monitoring data quality assured in accordance with 40 CFR 58.15, recorded in the U.S. EPA Air Quality System (AQS) database and available for public view.
- 3) A showing that the three-year average of annual values, based on data from all monitoring sites in the area or its affected downwind environs, do not exceed 15.0 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). This showing must rely on three complete, consecutive calendar years of quality assured data.

- 4) A commitment that, once redesignated, the state will continue to operate an appropriate monitoring network to verify the area is in compliance (maintenance) with the standard.

### 2.3 Emission Inventory

- 1) A comprehensive emission inventory of the precursors of fine particles (direct PM<sub>2.5</sub>, NO<sub>x</sub> and SO<sub>2</sub>) completed for the base year (2005 in this case).
- 2) A projection of the emission inventory to a year at least ten years following redesignation.
- 3) A demonstration that the projected level of emissions is sufficient to maintain the annual standard for fine particles.
- 4) A demonstration that improvement in air quality between the year violations occurred and the year attainment was achieved is based on permanent and enforceable emission reductions and not on temporary adverse economic conditions or unusually favorable meteorology.
- 5) Provisions for future annual updates of the inventory to enable tracking of the emission levels, including an annual emission statement from major sources.

### 2.4 Modeling Demonstration

While no modeling is required for redesignating nonattainment areas, IDEM has evaluated the results of federal control-case modeling to demonstrate that compliance with the standard will be maintained.

### 2.5 Controls and Regulations

- 1) A U.S. EPA-approved SIP control strategy that includes Reasonably Available Control Technology (RACT) requirements for existing stationary sources covered by Control Technology Guidelines (CTG) and non-CTG RACT for all major sources.
- 2) Evidence that control measures required in past SIP revisions have been fully implemented.
- 3) Acceptable provisions to provide for new source review.
- 4) Assurances that existing controls will remain in effect after redesignation, unless the state demonstrates through photochemical modeling that the standard can be maintained without one or more controls.

- 5) If appropriate, a commitment to adopt a requirement that all transportation plans conform with, and are consistent with, the SIP.

## **2.6 Corrective Actions for Potential Future Violations of the Fine Particle Standard**

- 1) A commitment to submit a revised plan eight years after redesignation.
- 2) A commitment to expeditiously enact and implement additional contingency control measures in response to exceeding specified predetermined levels (triggers) or in the event that future violations of the ambient standard occur.
- 3) A list of potential contingency measures that would be implemented in such an event.
- 4) A list of NO<sub>x</sub>, SO<sub>2</sub>, and direct PM<sub>2.5</sub> sources potentially subject to future controls.

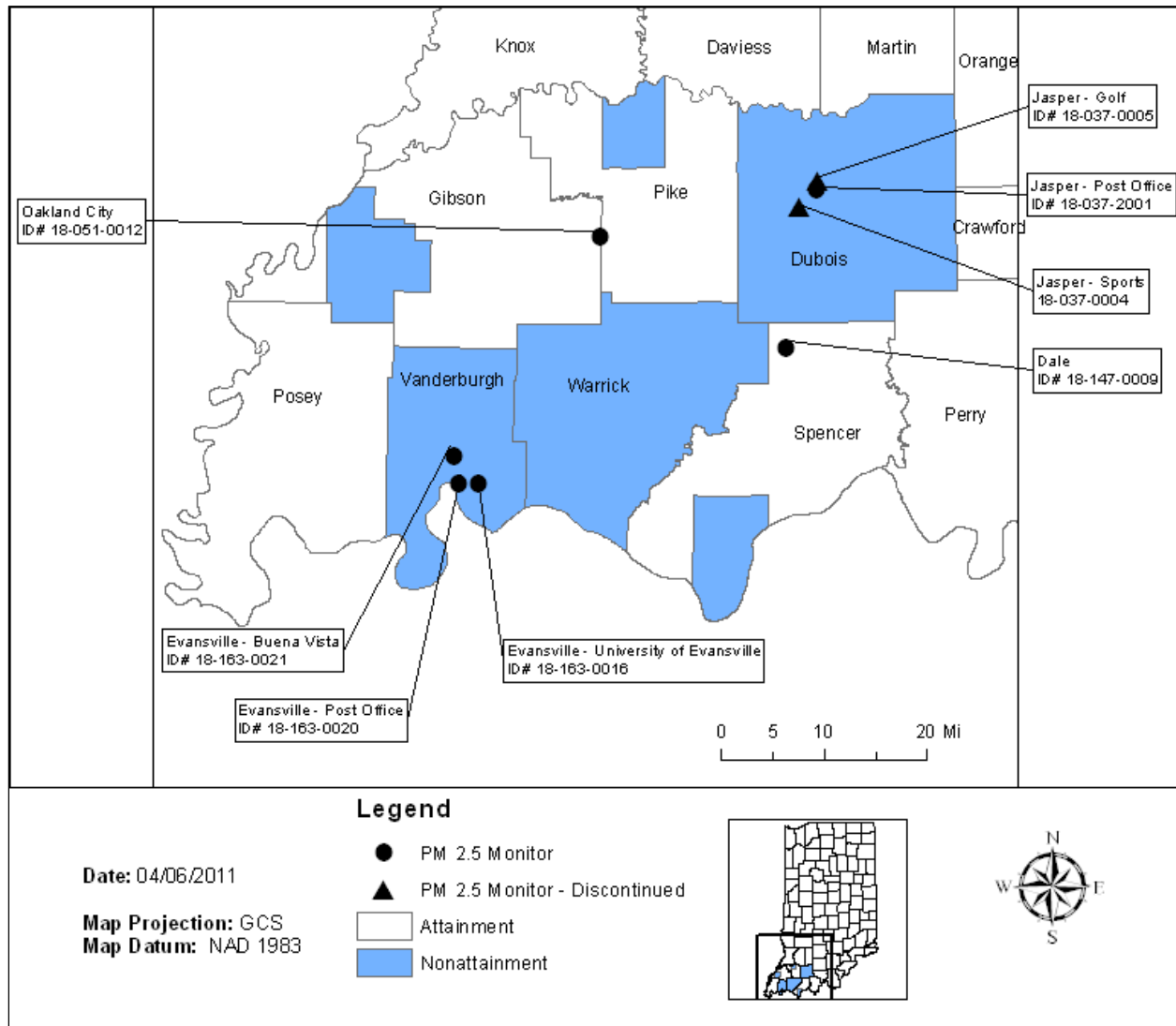
## **3.0 FINE PARTICLES MONITORING**

### **3.1 Fine Particle Monitoring Network**

There are currently four Federal Reference Method monitors measuring fine particle concentrations in this nonattainment area. These monitors are located in Dubois County (Jasper, Indiana) and Vanderburgh County (Mill Road/Buena Vista, Civic Center/Post Office and University of Evansville, Evansville, Indiana). The four monitors are operated by IDEM's Office of Air Quality (OAQ). A listing of the monitor readings from 2007 through 2009, is shown in Table 3.1 and Appendix A-1 and was retrieved from U.S. EPA's AQS database. The locations of the monitoring sites for this nonattainment area are shown in Figure 3.1.

Included as supporting material are two fine particle monitors that operated in Dubois County (Jasper, Indiana) from 2006 to 2008. IDEM also operates two fine particle monitors in nearby Spencer County (Dale, Indiana) and Gibson County (Oakland City, Indiana) that are not part of the Southwestern Indiana Area.

**Figure 3.1**  
**Southwestern Indiana Area**



### 3.2 Ambient Fine Particle Monitoring Data

The following information summarizes U.S. EPA's "Guideline on Data Handling Conventions for the PM NAAQS," U.S. EPA-454/R-99-008, April 1999. Three complete years of fine particle monitoring data are required to demonstrate attainment at a monitoring site. The annual ambient air quality standard for fine particles is met at an ambient air quality monitoring site when the three-year average of the annual average of fine particle concentrations is less than or equal to  $15.0 \mu\text{g}/\text{m}^3$ . When this occurs, the site is said to be in attainment. While calculating design values, three significant digits must be carried in the computations, with final values rounded to the nearest  $0.1 \mu\text{g}/\text{m}^3$ . Decimals 0.05 or greater are rounded up, and those less than 0.05 are rounded down, so that  $15.049 \mu\text{g}/\text{m}^3$  is the largest concentration that is less than or equal to  $15.0 \mu\text{g}/\text{m}^3$ . Values at or below  $15.0 \mu\text{g}/\text{m}^3$  meet the standard. Values equal to or greater than  $15.1 \mu\text{g}/\text{m}^3$  exceed the standard.

Data handling procedures are applied on an individual basis at each monitor in the area. An individual site's three-year average of the annual average fine particle concentration is also called the site's *design value*. An area is in compliance with the annual NAAQS for fine particles only if all monitoring sites meet the NAAQS. The air quality design value for the area is the highest design value among all sites in the area. Table 3.1 outlines the annual fine particle values by site and the 2007 through 2009 design values for the six active fine particle monitoring sites in the Southwestern Indiana Area. In addition, two discontinued fine particle monitoring sites (Jasper Sport and Jasper Golf) are outlined for historical reference.

**Table 3.1**  
**Monitoring Data for the Southwestern Indiana Area**  
**(Annual Average and 2007-2009 Design Values)**

<b>SITE ID</b>	<b>COUNTY</b>	<b>SITE NAME</b>	<b>YEAR</b>	<b>Annual Average µg/m3</b>	<b>2007-2009 Average µg/m3</b>
18-037-0004	Dubois	Jasper-Sport <sup>1</sup>	2007	14.61	13.4 <sup>5</sup>
			2008	12.10	
			2009		
18-037-0005	Dubois	Jasper-Golf <sup>1</sup>	2007	14.92	13.7 <sup>5</sup>
			2008	12.53	
			2009		
18-037-2001	Dubois	Jasper-Post Office	2007	14.26 <sup>2</sup>	13.2 <sup>3</sup>
			2008	12.93	
			2009	12.49	
18-051-0012	Gibson	Oakland City <sup>4</sup>	2007		11.2 <sup>5</sup>
			2008	11.33	
			2009	11.00	
18-147-0009	Spencer	Dale	2007	14.13	12.6
			2008	12.03	
			2009	11.77	
18-163-0006/20	Vanderburgh	Evansville-Civic Center/Post Office <sup>6</sup>	2007	13.91	12.9
			2008	12.58	
			2009	12.32	
18-163-0012/21	Vanderburgh	Evansville-Mill Road/Buena Vista <sup>7</sup>	2007	14.23	13.1
			2008	12.70	
			2009	12.28	
18-163-0016	Vanderburgh	Evansville-University of Evansville	2007	14.21	13.1
			2008	12.53	
			2009	12.49	

<sup>1</sup> The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

<sup>2</sup> Exceptional event data removed from calculations.

<sup>3</sup> Incomplete data see Appendix G.

<sup>4</sup> The Oakland City monitor began operation on January 18, 2008.

<sup>5</sup> Indicates design value is based on two years of data.

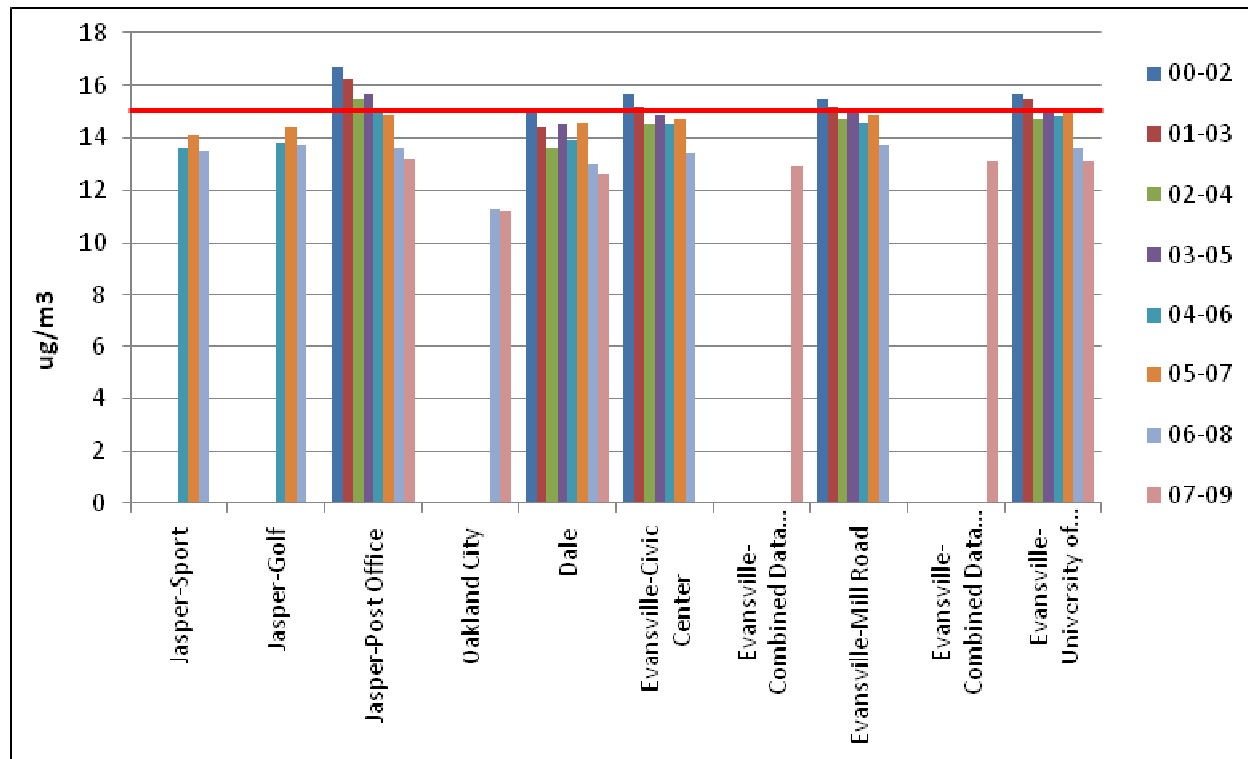
<sup>6</sup> The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor and data for 2009 as well as the 2007-2009 design value have been combined.

<sup>7</sup> The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor and data for 2009 as well as the 2007-2009 design value have been combined.



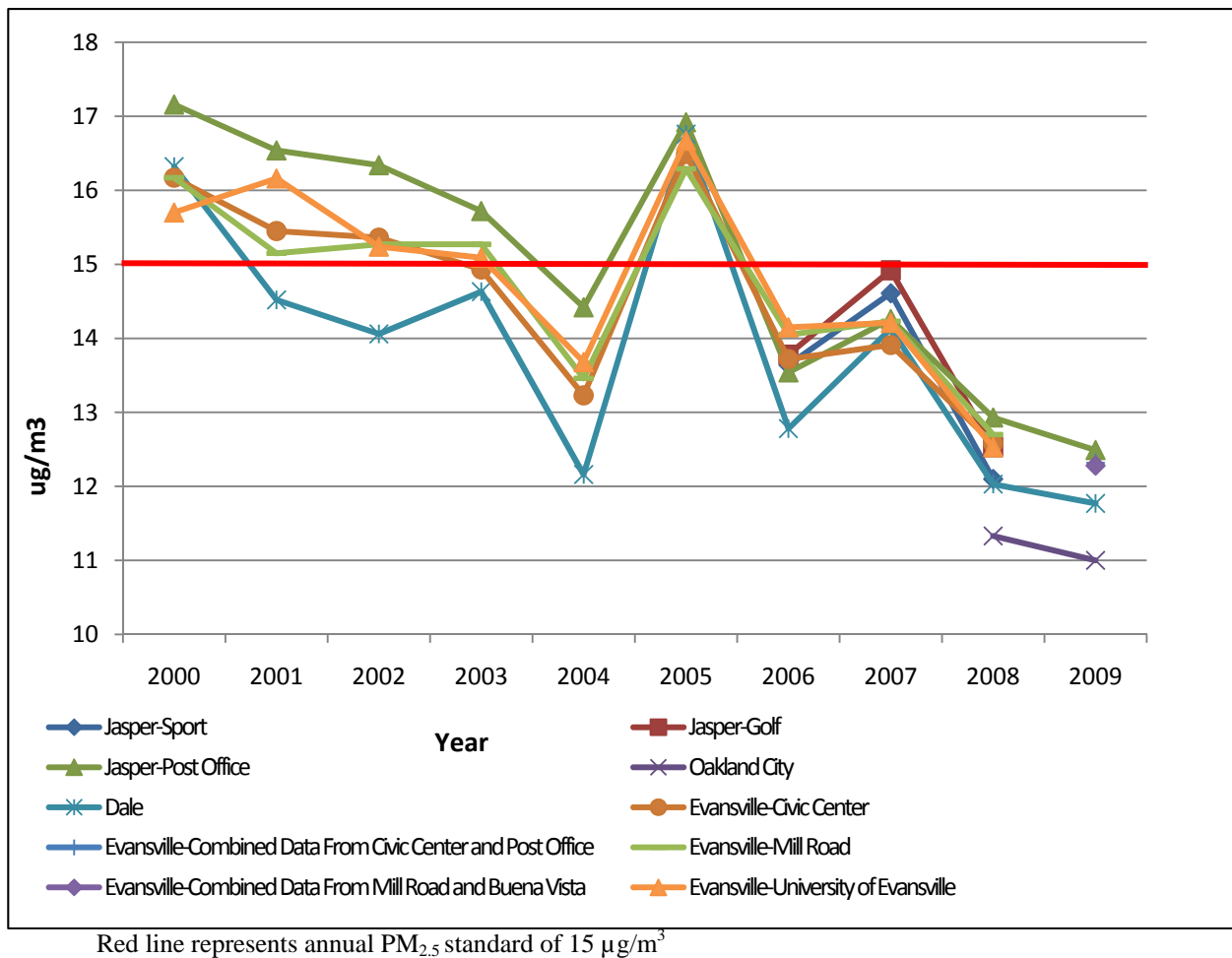
Graph 3.1 visually demonstrates the 2000 through 2009 design values for the Southwestern Indiana Area.

**Graph 3.1**  
**Design Values for the Southwestern Indiana Area for**  
**Fine Particles - 2000 through 2009**



Red line represents annual PM<sub>2.5</sub> standard of 15  $\mu\text{g}/\text{m}^3$

**Graph 3.2**  
**Southwestern Indiana Annual Fine Particle Trends - 2000 through 2009**



The design values for the Southwestern Indiana Area demonstrate that the annual NAAQS for fine particles has been attained. Appendix A-1 contains the complete fine particle monitoring data summary for the years 2000 to 2009.

Graph 3.1 shows the trend in design values for the region, while Graph 3.2 shows the trend for annual fine particles. A comprehensive list of the fine particle monitoring site design values over this period is outlined in Appendix A. The area's design values have recently trended downward, as emissions have declined due to programs such as the Acid Rain program and cleaner automobiles and fuels, both regionally and locally. U.S. EPA's rule to control nitrogen oxides from specific source categories (40 CFR Parts 51, 72, 75, and 96, published on October 17, 1998, and referred to as the "NO<sub>x</sub> SIP Call") has significantly reduced emissions from large electric generating units (EGUs), industrial boilers, and cement kilns. Indiana's NO<sub>x</sub> SIP Call Rule was adopted into the Indiana Administrative Code (IAC) on June 6, 2001, at 326 IAC 10-3 and 326 ICA 10-4. The elevated fine particle values for 2005 are considered an abnormal occurrence. An analysis of meteorological conditions and monitoring values is included in Section 7.0 and supports the conclusion that attainment of the standard as of 2009 is not the result of unusually

favorable meteorological conditions. It is expected that this downward trend will continue as the above programs continue and U.S. EPA's proposed Clean Air Transport Rule (Transport Rule) is implemented.

### 3.3 Quality Assurance

IDEM has quality assured all data shown in Appendix A in accordance with 40 CFR 58.10 and recorded the data in the AQS database and, thus, the data is available to the public.

### 3.4 Continued Monitoring

Indiana commits to continue monitoring fine particle concentrations at the active sites indicated in Table 3.1 and Appendix A. IDEM will consult with U.S. EPA Region V staff prior to making changes to the existing Indiana monitoring network through the annual network review should changes become necessary in the future. IDEM will continue to quality assure the Indiana monitoring data to meet the requirements of 40 CFR 58. IDEM will enter all data into AQS on a timely basis in accordance with federal guidelines.

## **4.0 EMISSION INVENTORY**

U.S. EPA's Redesignation Guidance and Implementation Rules require the submittal of a comprehensive inventory of precursor emissions for fine particles ( $\text{NO}_x$ ,  $\text{SO}_2$  and direct  $\text{PM}_{2.5}$ ) representative of the year when the area achieved attainment of the annual NAAQS for fine particles (base year). Indiana is using 2005 as the base year. IDEM must also demonstrate that the improvement in air quality between the year that violations occurred and the year that attainment was achieved is based on permanent and enforceable emission reductions. Other requirements related to the emission inventory include: a projection of the emission inventory to a year at least ten years following redesignation; a demonstration that the projected level of emissions is sufficient to maintain the annual standard for fine particles; and, a commitment to provide future updates of the inventory to enable tracking of emission levels during the ten year maintenance period. Consistent with the implementation rule for fine particles, IDEM and U.S. EPA do not consider volatile organic compounds (VOCs) or ammonia ( $\text{NH}_3$ ) to be significant contributors to fine particles. The following subsections address each of these requirements.

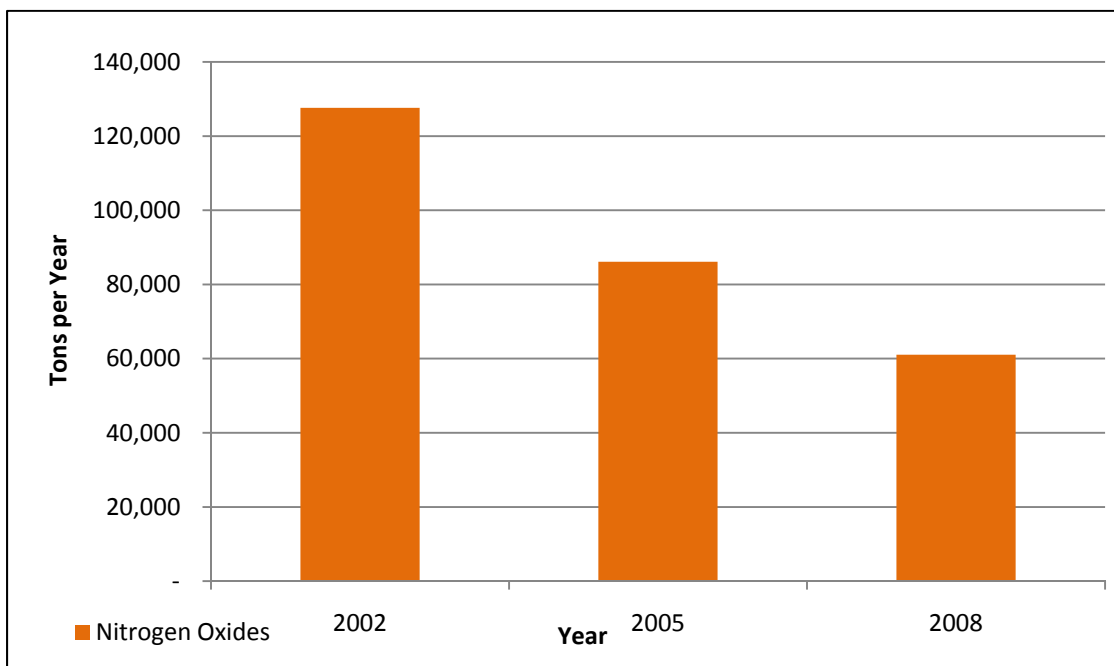
### 4.1 Emission Trends

#### Point Sources

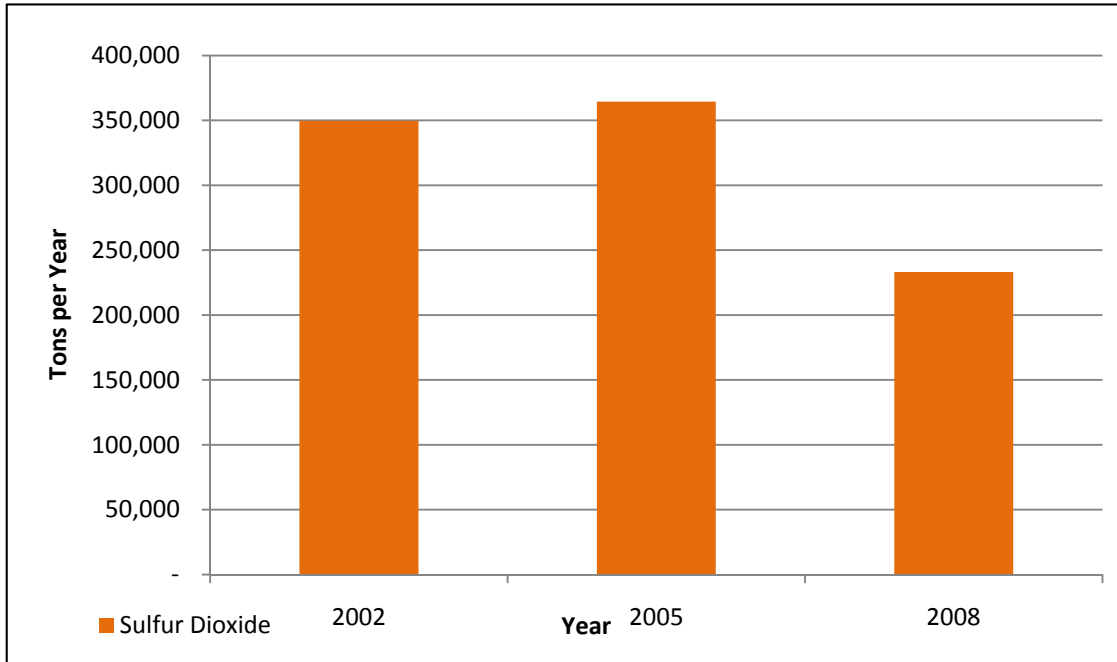
Graphs 4.1, 4.2, and 4.3 demonstrate that the trend in point source emissions of  $\text{NO}_x$ ,  $\text{SO}_2$ , and direct  $\text{PM}_{2.5}$  for the Southwestern Indiana Area generally correspond to the years of monitored values used in this redesignation petition. A secondary validation year of 2008 is used in this document for informational purposes only. The point source data are obtained from Indiana's emissions reporting program and are based on county point source totals, as opposed to township level emissions. The Southwestern Indiana Area had a 33% reduction in  $\text{NO}_x$  point source emissions and a slight increase (4%) in  $\text{SO}_2$  point source emissions from 2002 to 2005. A

moderate increase in direct PM<sub>2.5</sub> point source emissions from 2002 to 2005 is noted; this increase in direct PM<sub>2.5</sub> emissions is due to the fact that most companies did not submit their direct PM<sub>2.5</sub> emissions data in 2002, but did submit direct PM<sub>2.5</sub> data in the 2005 emission inventory. The Southwestern Indiana Area had a 29% reduction in NO<sub>x</sub> point source emissions and a 36% reduction in SO<sub>2</sub> point source emissions from 2005 to 2008. As Graph 4.7 illustrates, Southwestern Indiana NO<sub>x</sub> emissions from electric generating units have decreased substantially during this time period as well. Graphs and data tables of emissions for the point source category can be found in Appendix B.

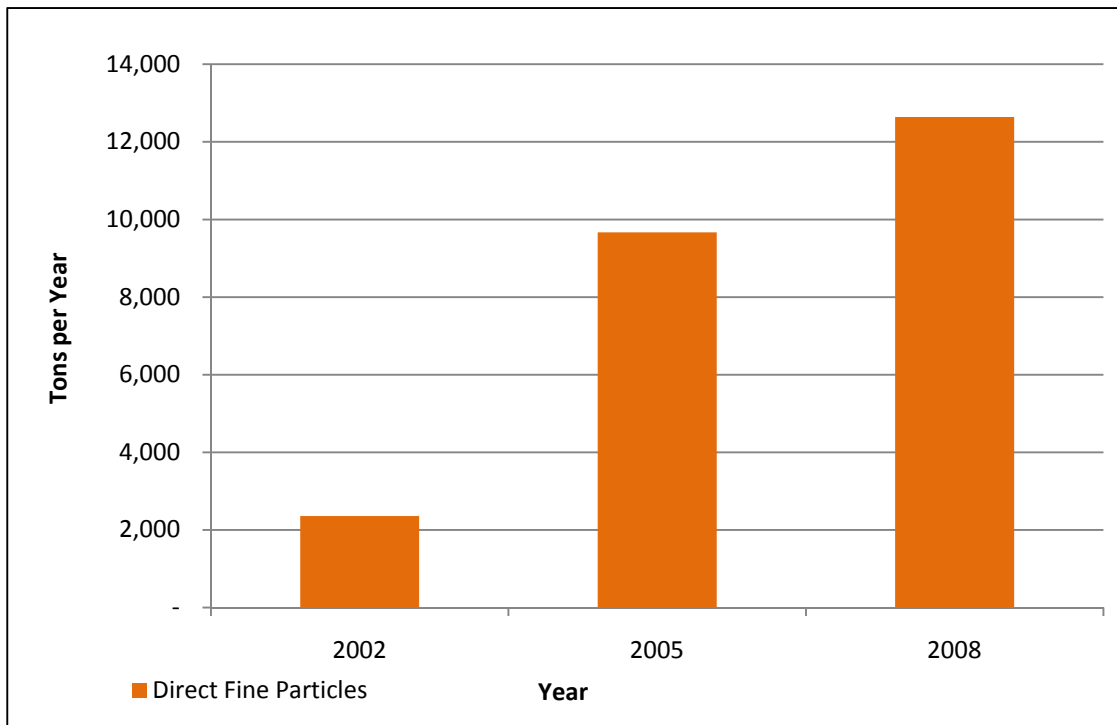
**Graph 4.1**  
**Southwestern Indiana Area NO<sub>x</sub> Point Source**  
**Emissions Trend - 2002, 2005 and 2008**



**Graph 4.2**  
**Southwestern Indiana Area SO<sub>2</sub> Point Source**  
**Emissions Trend - 2002, 2005 and 2008**



**Graph 4.3**  
**Southwestern Indiana Area Direct PM<sub>2.5</sub> Point**  
**Source Emissions Trend - 2002, 2005 and 2008**



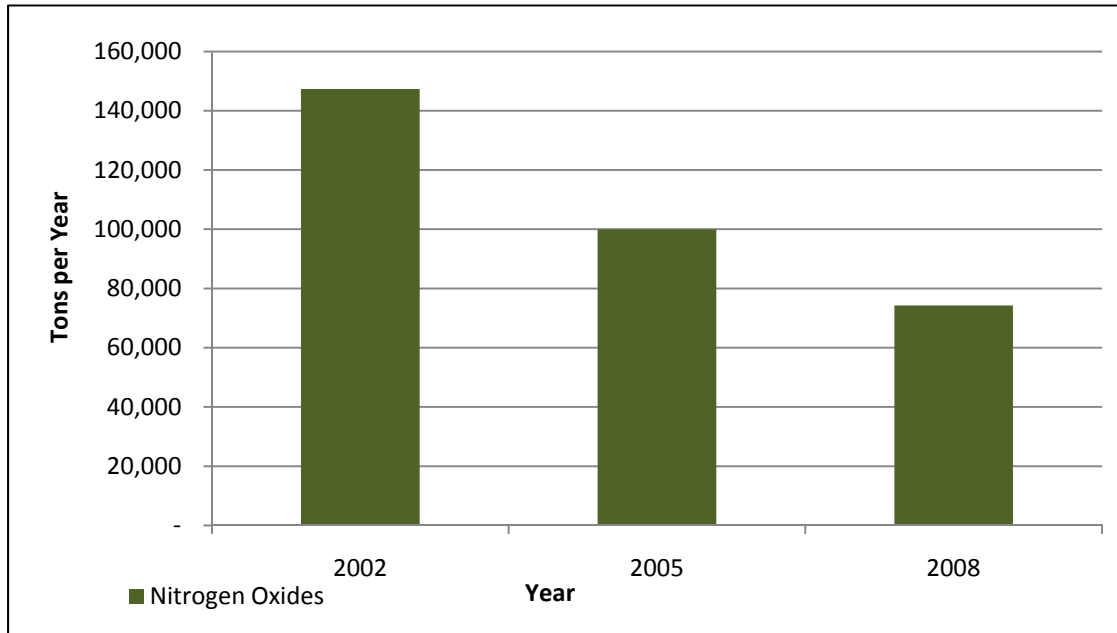
### All Anthropogenic Sources

Periodic inventories, which include emissions from all sectors (mobile, area, nonroad and point sources), were prepared for 2002, 2005, and 2008. The 2008 data were extrapolated from the 2005 emission inventory. Graphs 4.4, 4.5, and 4.6 illustrate the trend in anthropogenic source emissions for the Southwestern Indiana Area. Regional NO<sub>x</sub> emission reductions affect fine particle levels in the Southwestern Indiana Area far more so than NO<sub>x</sub> emission reductions within the nonattainment area itself. These emission trends roughly follow the years of monitored trends discussed in Section 3.0. There is a downward trend in NO<sub>x</sub> emissions from 2002 to 2005 and a further decrease through 2008. The decrease in NO<sub>x</sub> can be largely attributed to the impact of the NO<sub>x</sub> SIP Call. There is a general downward trend in SO<sub>2</sub> emissions from 2002 to 2008, as well. While an increase in direct PM<sub>2.5</sub> anthropogenic source emissions from 2002 to 2005 for the Southwestern Indiana Area is noted, this increase in direct PM<sub>2.5</sub> emissions from 2002 to 2005 is due to previously unreported emissions from companies that did not submit their direct PM<sub>2.5</sub> emissions data in 2002, but did submit direct PM<sub>2.5</sub> data in the 2005 emission inventory, from which the 2008, 2015, 2020, and 2022 data is extrapolated. Graphs and data tables of emissions from each source category are available in Appendix C.

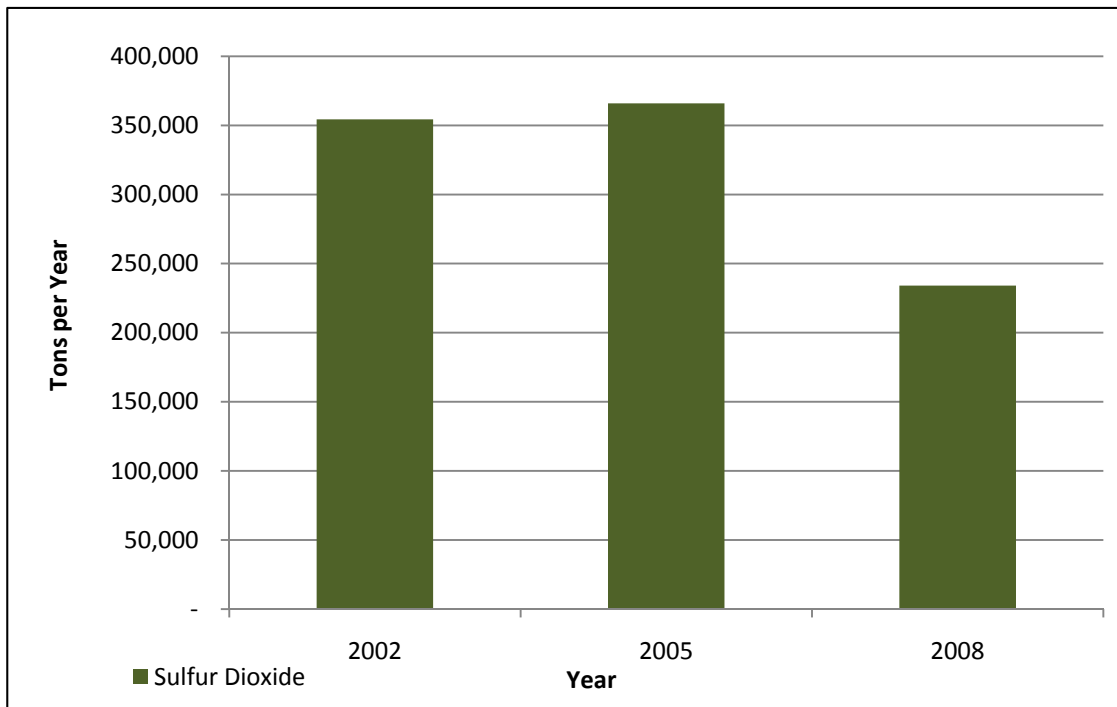
Mobile emissions inventories and projections for all counties were prepared by the Evansville Metropolitan Planning Organization (EMPO) and the Indiana Department of Transportation (INDOT) and are explained in further detail in Section 5.0. All 2005 data for the Southwestern Indiana Area are from the 2005 periodic inventory which has been identified as one of the preferred databases for SIP development. For the 2008 attainment year, emissions were extrapolated from the 2005 Lake Michigan Air Directors Consortium's (LADCO) modeling inventory, using LADCO's growth factors, for all sectors except point sources (electrical generating units and non-electrical generating units). Point source emissions for 2008 were compiled from Indiana's annual emission inventory database.

The emission inventory development and emissions projection discussion below, with the exception of the mobile emission inventory and projections, identify procedures used by IDEM and LADCO regarding emissions for the Southwestern Indiana Area.

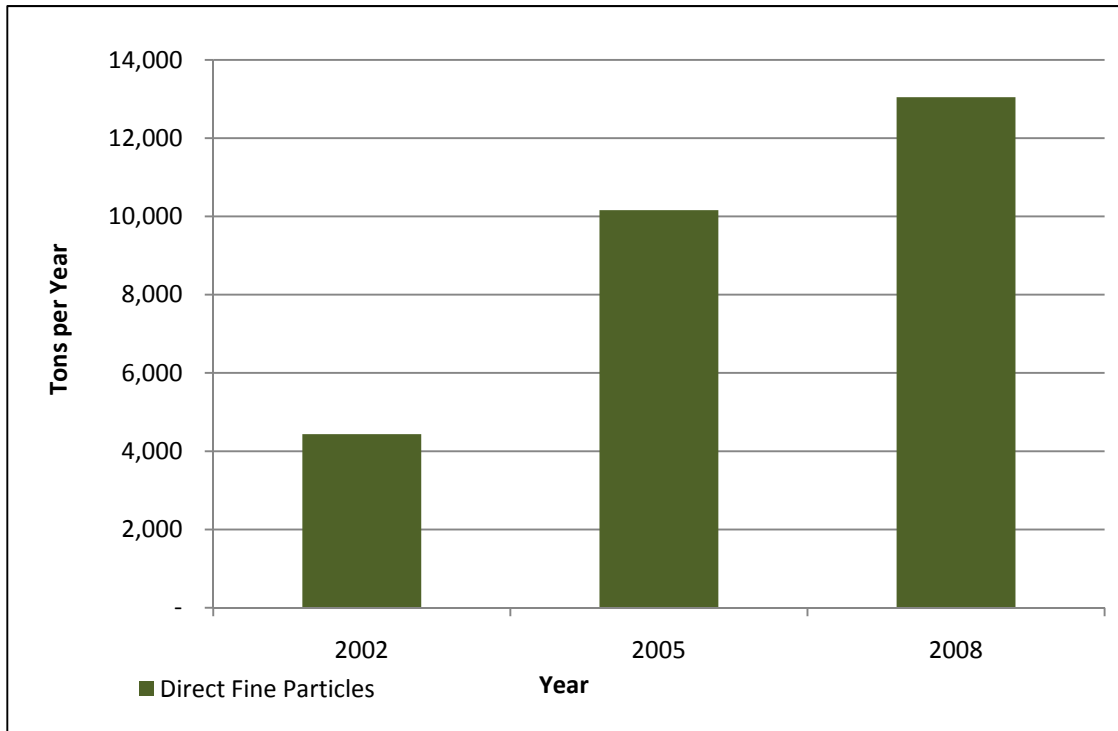
**Graph 4.4**  
**NO<sub>x</sub> Emissions Trend, All Sources**  
**in the Southwestern Indiana Area - 2002, 2005 and 2008**



**Graph 4.5**  
**SO<sub>2</sub> Emissions Trend, All Sources**  
**in the Southwestern Indiana Area - 2002, 2005 and 2008**



**Graph 4.6**  
**Direct PM<sub>2.5</sub> Emissions Trend, All Sources**  
**in the Southwestern Indiana Area – 2002, 2005 and 2008**



#### EGU Sources

Graphs 4.7 and 4.8 show both NO<sub>x</sub> and SO<sub>2</sub> emissions are decreasing substantially in response to national programs affecting all EGUs, such as the Acid Rain program and the NO<sub>x</sub> SIP Call. Other sectors of the inventory also impact the formation of fine particles, but large regional sources, such as EGUs, have a substantial impact on the formation of fine particles.

The data were taken from U.S. EPA's Clean Air Markets database located at <http://www.epa.gov/airmarkets>. Data are available sooner for these units than other point sources in the inventory because of the NO<sub>x</sub> SIP Call budget and trading requirements. Information from 2003 is significant because some EGUs started operation of their NO<sub>x</sub> SIP Call controls in order to generate Early Reduction Credits for their future year NO<sub>x</sub> budgets. The first season of the NO<sub>x</sub> SIP Call budget period began May 31, 2004.

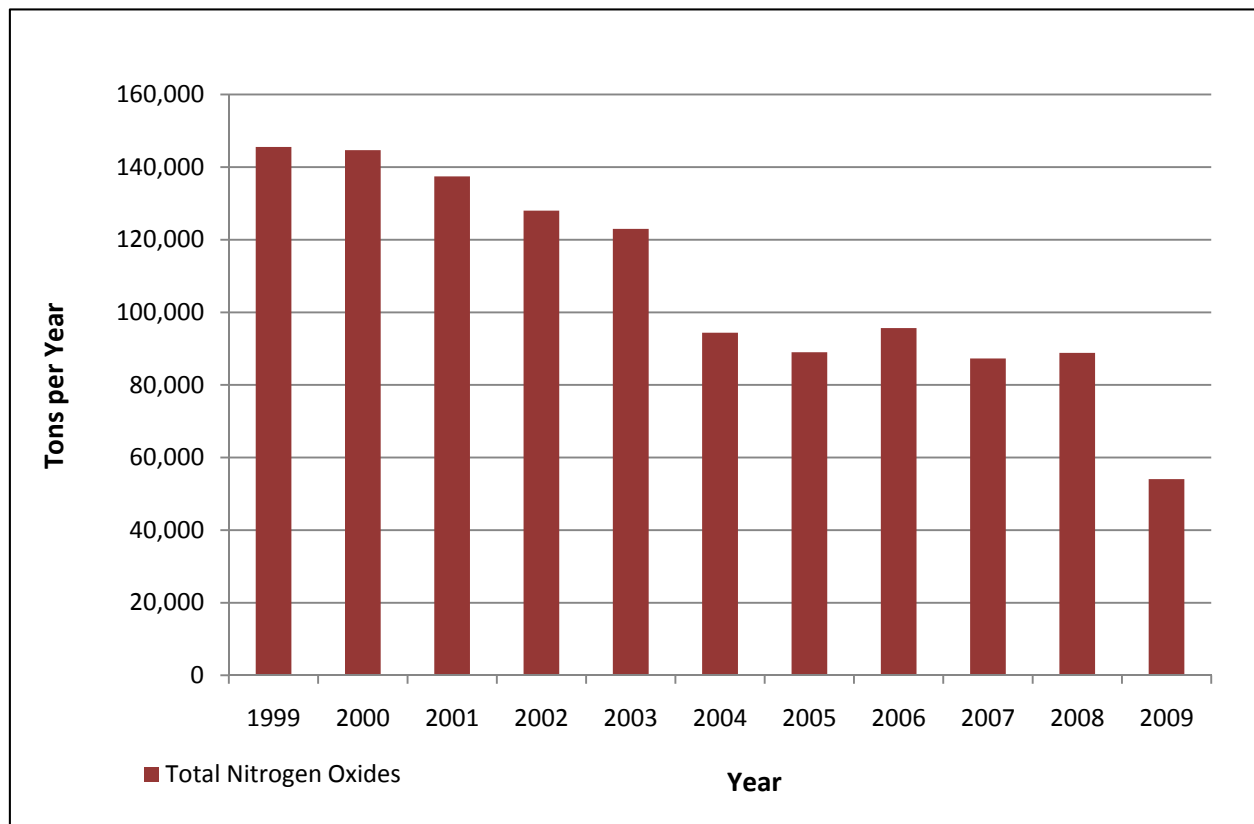
As part of the NO<sub>x</sub> SIP Call, the states were required to adopt into their rules a budget for all large EGUs. Indiana's budget is referenced in 326 IAC 10-4. The budget represents a statewide cap on NO<sub>x</sub> emissions. Although each unit is allocated emissions based upon historic heat input, utilities can meet this budget by over-controlling certain units or purchasing credits from the market to account for overages at other units. To summarize, NO<sub>x</sub> emissions have dramatically decreased over the years represented on these graphs.



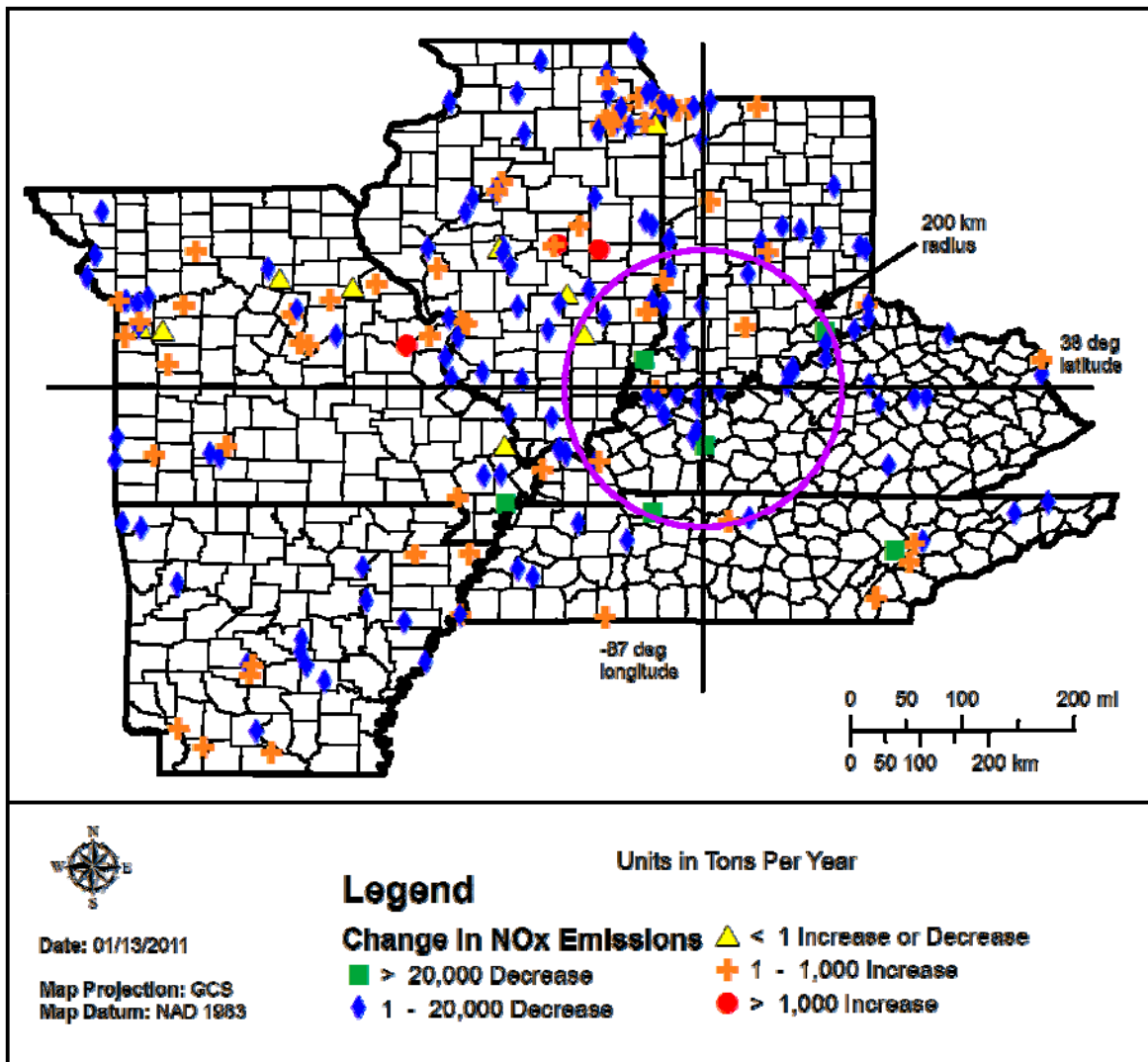
These emissions, capped by the state rule, are expected to remain near these levels throughout the maintenance period covered by this request. The state cap for the NO<sub>x</sub> SIP Call remained in place through 2008, at which time the Clean Air Interstate Rule (CAIR) program superseded it. CAIR, issued in March 2005, adopted by the Indiana Air Pollution Control Board on November 1, 2006, and implemented beginning in 2010, will continue to reduce regional EGU NO<sub>x</sub> emissions statewide by approximately another 17% by 2015 and 57% for EGU SO<sub>2</sub> emissions by 2015. The D.C. Circuit court's vacatur of CAIR in July of 2008 and subsequent remand without vacatur of CAIR in December 2008, directs U.S. EPA to revise the CAIR rule in the future. The proposed Transport Rule (CAIR's replacement rule) will result in similar or greater emission reductions than assumed within the current emission inventories once it is implemented.

As demonstrated by Figure 4.1 and Graph 4.7, significant reductions of NO<sub>x</sub> associated with the NO<sub>x</sub> SIP Call and preparation for CAIR have been achieved statewide as well as regionally. For the six state region (Arkansas, Indiana, Illinois, Kentucky, Missouri and Tennessee) shown in Figure 4.1, within the area south of latitude 38 and west of longitude -87 (the southwest quadrant denoted by brown lines), there has been a reduction in upwind EGU emissions of more than 197,000 tons of NO<sub>x</sub> from 2002 to 2009. These six states are important because they represent the predominant upwind states most likely to affect the Southwestern Indiana Area. The specific EGU emissions for NO<sub>x</sub> and SO<sub>2</sub> from the southwest quadrant, as well as the change in emissions from 1999 to 2009 are listed in Appendix D.

**Graph 4.7**  
**Regional NO<sub>x</sub> Emissions from EGUs - 1999 to 2009**



**Figure 4.1 Regional NO<sub>x</sub> EGU Reductions Between 2002 and 2009**

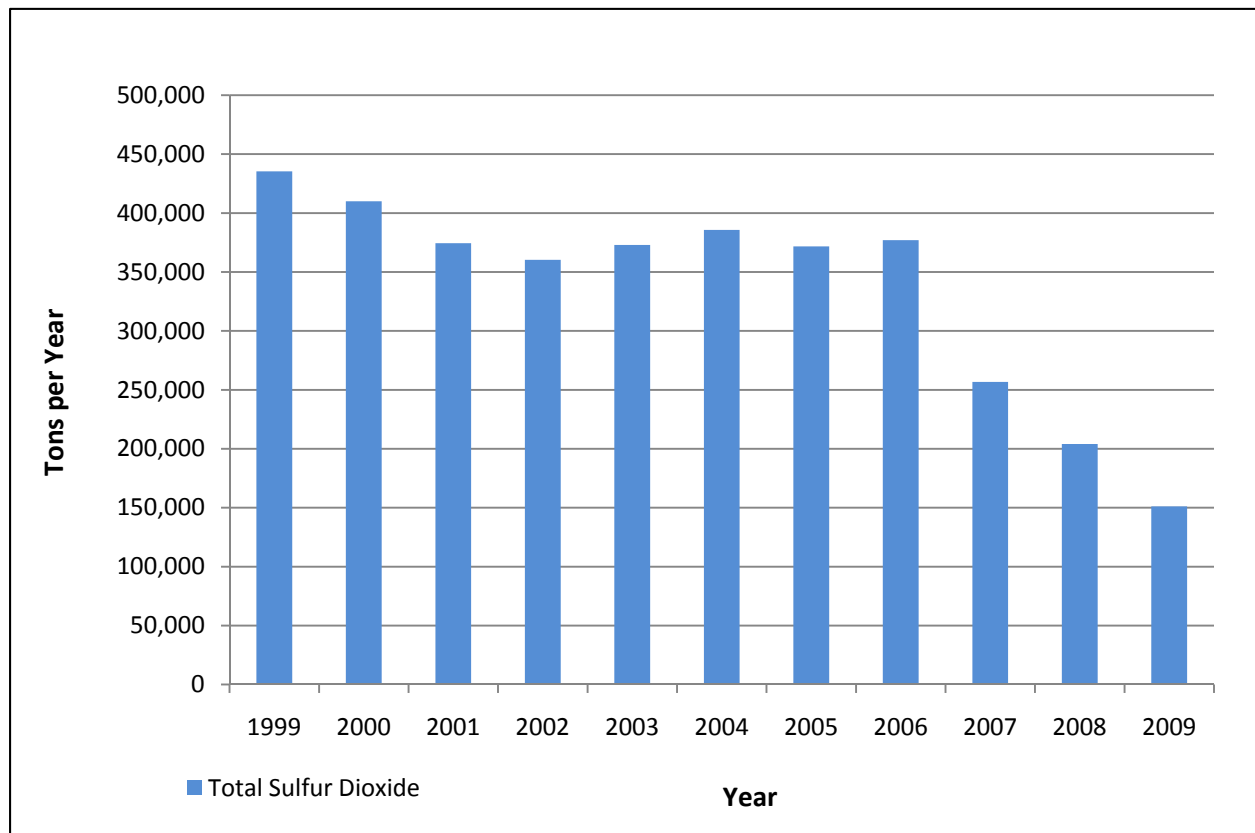


As demonstrated by Figure 4.2, reductions of regional SO<sub>2</sub> from upwind EGUs have also been achieved. For the six state region (Arkansas, Indiana, Illinois, Kentucky, Missouri and Tennessee) shown in Figure 4.2, in the area south of latitude 38 and west of longitude -87 (the southwest quadrant denoted by the brown lines), there has been a reduction of upwind EGU emissions of over 24,000 tons of SO<sub>2</sub> from 2002 to 2009. The specific EGU emissions for NO<sub>x</sub> and SO<sub>2</sub> from the southwest quadrant, as well as the change from 1999 to 2009 are listed in Appendix D.

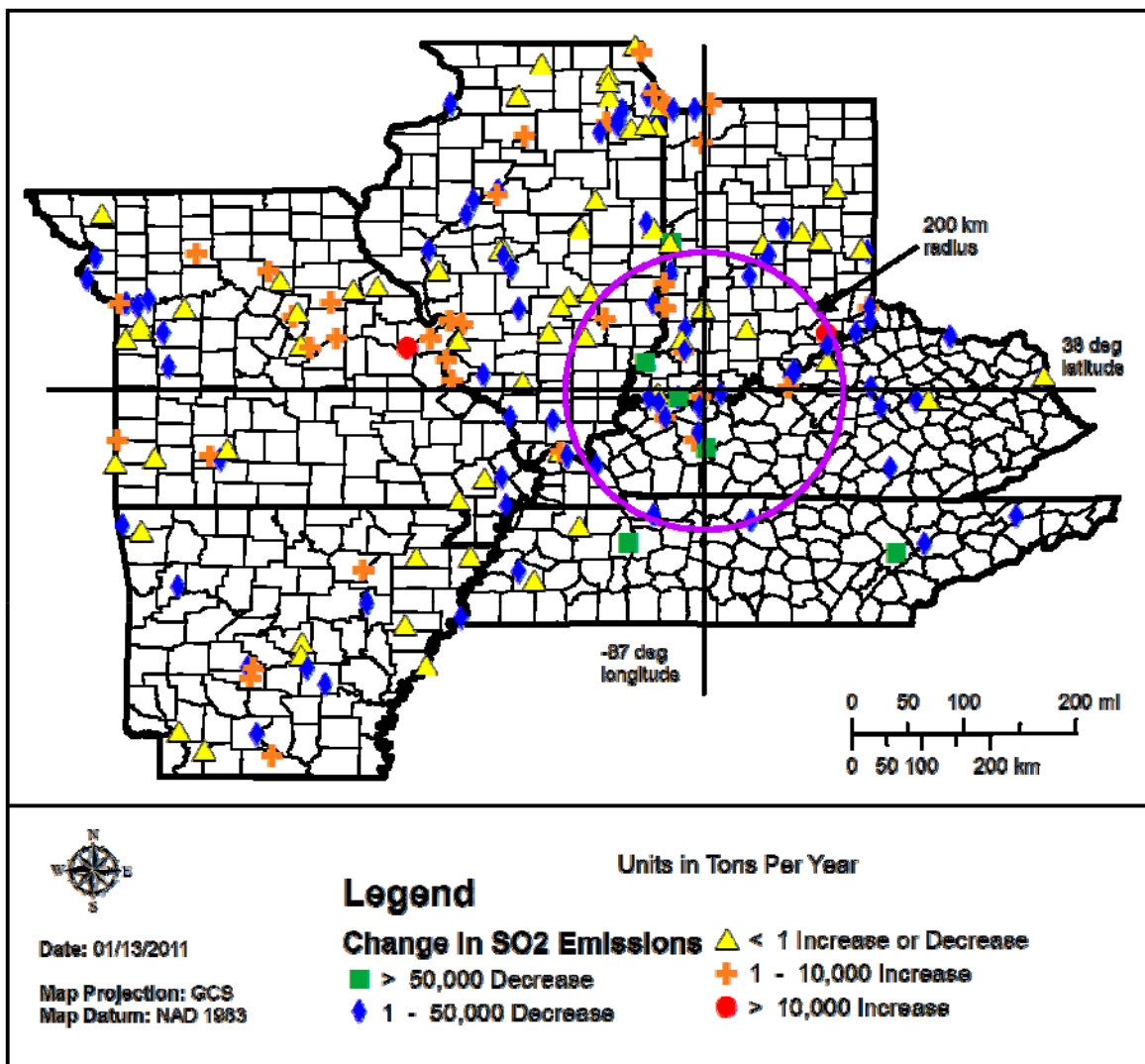
Although there are minor fluctuations in the SO<sub>2</sub> emissions over time, as shown in Graph 4.8, well over 50% in reductions have been realized to date. As noted in Graph 4.10, significant reductions are expected in SO<sub>2</sub> emissions from the CAIR program and Best Available Retrofit Technology (BART), once implemented. As a result of the CAIR program, five EGU's will achieve significant reductions in SO<sub>2</sub>. It is expected that this downward trend will continue as the above programs continue and U.S. EPA's proposed Transport Rule is implemented. Alcoa

and Cayuga both installed scrubbers in 2008 that will result in a 90% reduction in SO<sub>2</sub> emissions, to meet CAIR rules. Gibson installed Flue Gas Desulfurization (FGD) systems on Units 1, 2, and 3 between 2006 and 2008. Clifty Creek is in the process of installing FGD systems which will also result in 90% reductions in SO<sub>2</sub> at those facilities, despite some technology-related problems. Wabash Valley was ordered to shut down Units 2, 3, and 5 and complied by September 30, 2009. As a result of Wabash Valley's successful legal appeal, they may restart these units in the future. At this time, there is no clear indication that Wabash Valley will restart units 2, 3, and 5. Edwardsport is replacing all of the coal-fired boilers with an Integrated Gasification Combined Cycle (IGCC) system which will result in a slight increase in NO<sub>x</sub> of 32.49 tons per year and a substantial reduction in SO<sub>2</sub> of 9,834 tons per year. Also, as a result of a recent settlement agreement, American Electric Power (AEP) Rockport will install scrubbers to achieve a 90% reduction in SO<sub>2</sub>. Appendix B shows detailed emissions for the point source emissions and Appendix D shows detailed emissions for the electric generating units.

**Graph 4.8**  
**Regional SO<sub>2</sub> Emissions from EGUs - 1999 to 2009**



**Figure 4.2 Regional SO<sub>2</sub> EGU Reductions Between 2002 and 2009**



#### 4.2 Base Year Inventory

IDEM prepared a comprehensive inventory for the Southwestern Indiana Area, including area, mobile, nonroad, and point sources for the regulated precursors of fine particles (NO<sub>x</sub>, SO<sub>2</sub> and direct PM<sub>2.5</sub>) for 2005 and 2008 (the years with the most complete emission inventories available at this time). The 2005 emission inventory represents a base year for maintenance purposes. The 2007 implementation rule for the annual fine particle standard states that NO<sub>x</sub>, SO<sub>2</sub>, and direct PM<sub>2.5</sub> are the regulated precursors of fine particles. Ammonia and VOCs are not required to be addressed unless the state or U.S. EPA makes a technical demonstration that emissions of these pollutants from sources in the state significantly contribute to PM<sub>2.5</sub> concentrations in a given nonattainment area. U.S. EPA and IDEM have not determined ammonia or VOCs to be significant contributors to fine particles formation in the State of Indiana. Indiana's 2005 base year inventory was determined by the following:

- Area sources were extrapolated from the Indiana 2005 periodic inventory submitted to U.S. EPA.
- Mobile source emissions were calculated from MOBILE6.2 model-produced emission factors and data extracted from the region's travel-demand model. These emissions were then interpolated as needed to determine 2005 base year values.
- Point source information was compiled from IDEM's emissions statement database and U.S. EPA's Clean Air Markets acid rain database.
- Biogenic emissions are not specifically included in these summaries, but are included in the photochemical modeling results represented in Section 7.0.
- Nonroad emissions were extrapolated from the 2002 National Emissions Inventory (NEI). To address concerns about the accuracy of some of the categories in U.S. EPA's nonroad emissions model, LADCO contracted with two companies to review the base data and make recommendations. One of the contractors also estimated emissions for two nonroad categories not included in U.S. EPA's nonroad model. Emissions were estimated for commercial marine vessels and railroads. The recreational motorboat population and spatial surrogates (used to assign emissions to each) were significantly updated. The populations for the construction equipment category were reviewed and updated based upon surveys completed in the Midwest and the temporal allocation for agricultural sources was also updated. A new nonroad estimation model was provided by U.S. EPA for the 2002 analysis.

Appendix C contains data tables and graphs of these emissions.

#### 4.3 Emission Projections

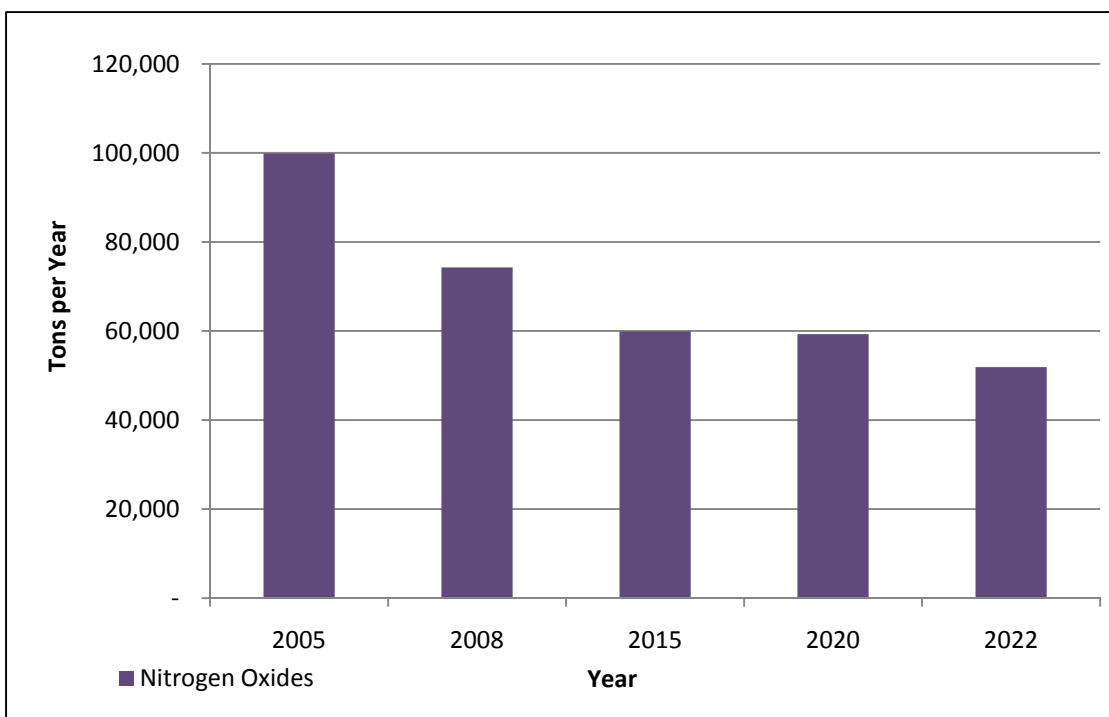
In consultation with U.S. EPA and other stakeholders, IDEM selected the year 2022 as the maintenance year for this redesignation request. This document contains projected emission inventories for 2015, 2020, and 2022 for the Southwestern Indiana Area. These emission projections were prepared by IDEM, with assistance from LADCO and the EMPO. The projected emission inventories for 2020 and 2022 were extrapolated from 2018 estimates developed by LADCO.

The detailed 2015, 2020, and 2022 emission inventory for the Southwestern Indiana Area can be found in Appendix E. Emission trends are an important gauge for continued compliance with the annual standard for fine particles. Therefore, IDEM performed an initial comparison of the inventories for the base year of 2005, secondary validation year of 2008, interim years of 2015 and 2020 and maintenance year of 2022 for the Southwestern Indiana Area.

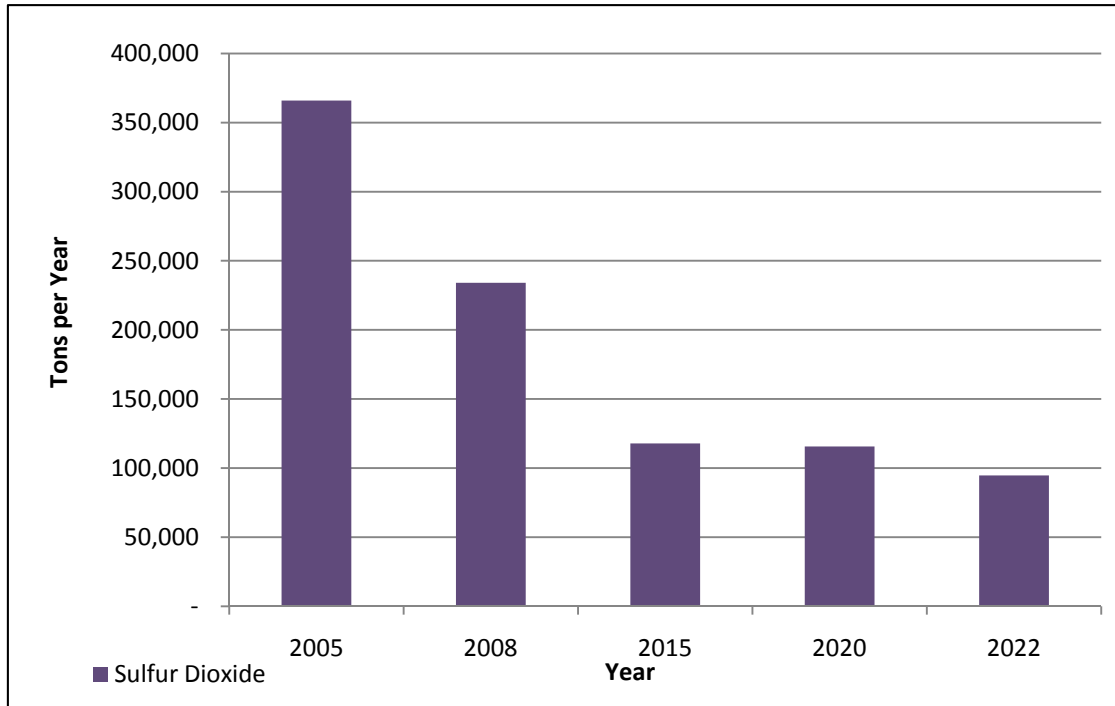
The 2005 LADCO modeling inventory was used as the basis for estimated emissions for the years 2008, 2015, 2020, and 2022, using LADCO's growth factors, for all sectors except point sources (electrical generating units and non-electrical generating units). Point source emissions for 2005 and 2008 were compiled from Indiana's annual emission inventory database. The 2008 secondary validation emissions for other sectors were extrapolated from 2005 values. The 2015 interim year emissions were interpolated based on the 2009 and 2018 LADCO modeling inventory, using LADCO's growth factors, for all sectors. The 2020 interim year emissions and the 2022 maintenance year emissions were extrapolated from the 2018 LADCO modeling inventory.

Graphs 4.9, 4.10, and 4.11 visually compare 2005 (base year) and 2008 (secondary validation year) NO<sub>x</sub>, SO<sub>2</sub>, and direct PM<sub>2.5</sub> county total estimated emissions with the 2015, 2020, and 2022 projected emissions for the Southwestern Indiana Area. Mobile source emission inventories are further described in Section 5.0. In addition to LADCO's estimates, point source emissions were projected based upon the statewide EGU NO<sub>x</sub> budgets from the Indiana NO<sub>x</sub> SIP Call rule. It should be noted that EGU emission estimates for 2015, 2020, and 2022 were projected using the Department of Energy Information's Annual Energy Outlook Supplemental tables for the year 2018. These tables were generated for the reference case of the Annual Energy Outlook 2007 using the National Energy Modeling System. Graphs and data tables of emissions from the EGU source category can be found in Appendix D.

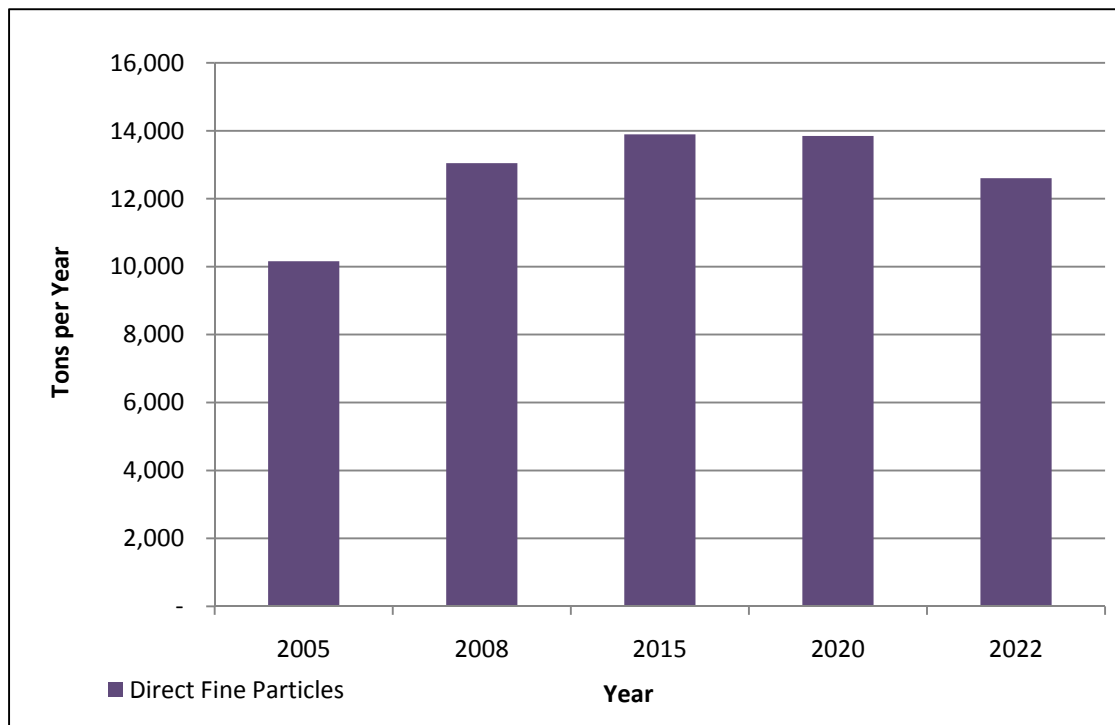
**Graph 4.9**  
**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected NO<sub>x</sub>**  
**Emissions for the Southwestern Indiana Area**



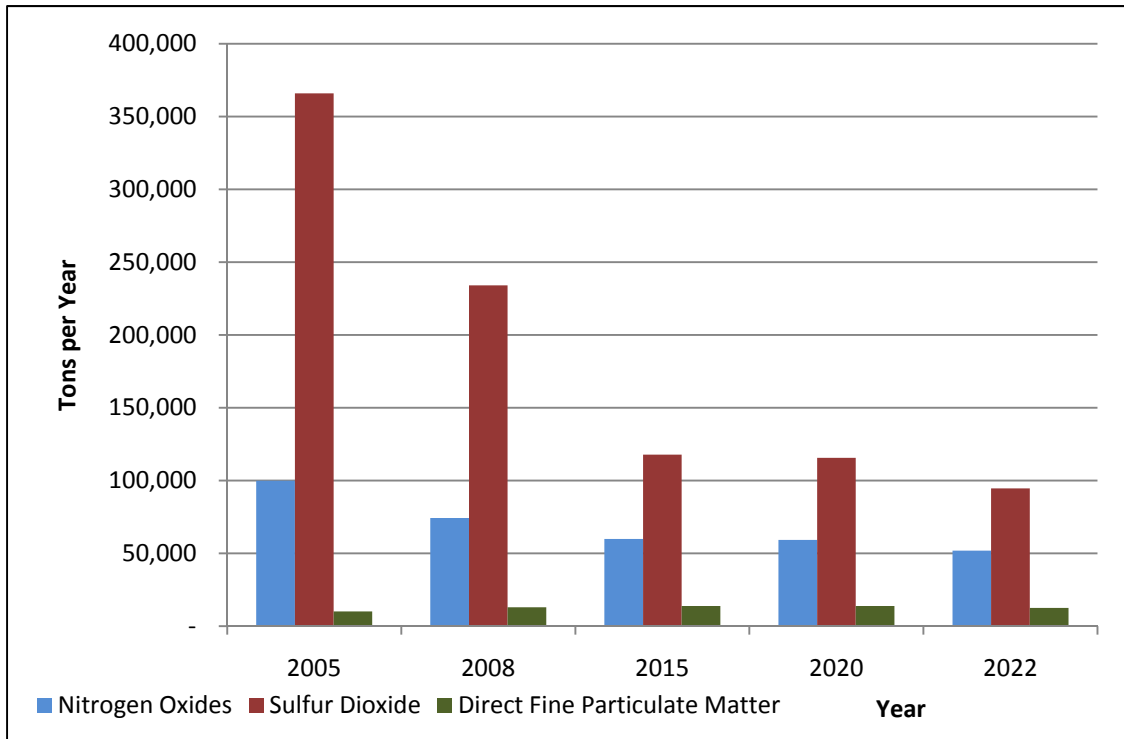
**Graph 4.10**  
**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected SO<sub>2</sub>**  
**Emissions for the Southwestern Indiana Area**



**Graph 4.11**  
**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected Direct PM<sub>2.5</sub>**  
**Emissions for the Southwestern Indiana Area**



**Graph 4.12**  
**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected NO<sub>x</sub>, SO<sub>2</sub> and Direct PM<sub>2.5</sub>**  
**Emissions for the Southwestern Indiana Area**



NO<sub>x</sub> emissions within the Southwestern Indiana Area are projected to decline by 48% between 2005 and 2022. Emission reduction benefits from U.S. EPA rules covering the NO<sub>x</sub> SIP Call, Tier 2 Motor Vehicle Emission Standards and Gasoline Sulfur Control Requirements, Heavy-Duty Highway Engine Rule, and the Nonroad Diesel Engine Rule are factored into the changes. Additionally, due to implementation of the NO<sub>x</sub> SIP Call across the eastern United States, NO<sub>x</sub> and fine particle levels entering the Southwestern Indiana Area will also be decreased. SO<sub>2</sub> emissions within the Southwestern Indiana Area are projected to decline by 74% between 2005 and 2022. While an increase in direct PM<sub>2.5</sub> emissions in the Southwestern Indiana Area is noted, this increase in emissions from 2002 to 2005 is due to previously unreported emissions from companies that did not submit their direct PM<sub>2.5</sub> emissions data in 2002, but did submit direct PM<sub>2.5</sub> data in the 2005 emission inventory, from which the 2008, 2015, 2020, and 2022 data is extrapolated. The 2015, 2020, and 2022 emission projections assume no additional controls will be installed. This approach over-predicts future year emissions as it is reasonable to assume a significant number of facilities will need to install additional controls to comply with CAIR or the proposed Transport Rule. The increase in direct PM<sub>2.5</sub> emissions in the Southwestern Indiana Area is outweighed by the significant regional reductions in NO<sub>x</sub> and SO<sub>2</sub> that have occurred and will continue to occur in the future.



**Table 4.1**  
**Comparison of 2005 Estimated and 2022 Projected Emission Estimates, Southwestern**  
**Indiana Area (Annual-Tons)**

	<b>2005</b>	<b>2022</b>	<b>Change</b>	<b>% Change</b>
<b>NO<sub>x</sub></b>	99,921.66	51,884.76	-48,036.90	48.07% decrease
<b>SO<sub>2</sub></b>	365,954.11	94,626.89	-271,327.22	74.14% decrease
<b>Direct PM<sub>2.5</sub></b>	10,159.65	12,604.06	2,444.41	24.06% increase

**Table 4.2**  
**Comparison of 2008 Estimated and 2022 Projected Emission Estimates, Southwestern**  
**Indiana Area (Annual-Tons)**

	<b>2008</b>	<b>2022</b>	<b>Change</b>	<b>% Change</b>
<b>NO<sub>x</sub></b>	74,286.88	51,884.76	-22,402.12	30.16% decrease
<b>SO<sub>2</sub></b>	234,126.80	94,626.89	-139,499.91	59.58% decrease
<b>Direct PM<sub>2.5</sub></b>	13,045.38	12,604.06	-441.32	3.38% decrease

#### 4.4 Demonstration of Maintenance

Quality-assured ambient air quality data from all the monitoring sites indicate that air quality in the Southwestern Indiana Area met the annual NAAQS for fine particles for the three-year period ending in 2009. U.S. EPA's Redesignation Guidance states, "A state may generally demonstrate maintenance of the NAAQS by either showing that future emissions of a pollutant or its precursors will not exceed the level of the attainment inventory, or by modeling to show that the future mix of sources and emission rates will not cause a violation of the NAAQS" (Page 9). Section 3.0 of this document shows that the Southwestern Indiana Area has in fact measured attainment for fine particles for the four consecutive periods ending in 2006, 2007, 2008, and 2009. Additionally, emission projections outlined in Section 4.0 of this document clearly illustrate that regional NO<sub>x</sub> and SO<sub>2</sub> emissions in the area will continue to decline leading to local reductions between 2005 (base year) and 2022 (maintenance plan horizon). Section 7.0 further discusses the implications of these emission trends and provides an analysis to support these conclusions.

In Indiana, major point sources in all counties are required to submit air emissions information once every three years, or annually, if the NO<sub>x</sub> or SO<sub>2</sub> potential to emit is greater than 2,500 tons per year in accordance with the Emission Reporting Rule, 326 IAC 2-6. IDEM prepares a new periodic inventory for all precursor emission sectors every three years. These precursor emission inventories will be prepared for 2011, 2014, and 2017, as necessary, to comply with the inventory reporting requirements established in the CAA. Emissions information will be compared to the 2005 base year and the 2022 projected maintenance year inventories to assess emission trends, as necessary, to assure continued compliance with the annual standard for fine particles.

#### 4.5 Permanent and Enforceable Emission Reductions

Permanent and enforceable reductions of NO<sub>x</sub> and SO<sub>2</sub> have contributed to the attainment of the annual standard for fine particles. Some of these reductions were due to the implementation of the NO<sub>x</sub> SIP Call rule and some were due to the application of tighter federal standards on motor vehicles and fuels.

Section 6.0 identifies the emission control measures specific to the Southwestern Indiana Area, as well as the implementation status of each measure.

#### 4.6 Provisions for Future Updates

As required by Section 175A(b) of the CAA, Indiana commits to submit to the Administrator, eight years after redesignation, an additional revision of this SIP. The revision will contain Indiana's plan for maintaining the national primary fine particles air quality standard for ten years beyond the first ten-year period after redesignation.

### **5.0 TRANSPORTATION CONFORMITY BUDGETS**

U.S. EPA requirements outlined in 40 CFR 93.118(e)(4) stipulate that motor vehicle emission budgets (MVEBs) for direct PM<sub>2.5</sub> and NO<sub>x</sub> be established as part of a SIP. The MVEBs are necessary to demonstrate conformance of transportation plans and improvement programs with the SIP.

#### 5.1 Onroad Emission Estimates

The EMPO is the Metropolitan Planning Organization (MPO) for the Evansville area. The EMPO study area contains approximately 650 square miles in Indiana, including the City of Evansville, Vanderburgh County, Warrick County and a very small area of eastern Posey County. In Kentucky, the study area encompasses approximately 440 square miles which includes the City of Henderson and Henderson County. Additionally, INDOT and the EMPO have executed an agreement for the EMPO to provide planning assistance in rural Gibson County.

The EMPO maintains a travel demand forecasting model that was updated and improved in 2006. The model incorporates the road network of a five county area, which includes the Indiana counties of Vanderburgh, Warrick, Gibson, and Posey, and Henderson County in Kentucky. Incorporated into the travel demand model is a post-processor that uses the U.S. EPA-required emissions estimation model, MOBILE6.2, to calculate total emissions.

The EMPO travel demand model is used to simulate the traffic in the area and to predict what traffic would be in future years given growth expectations. The model is used mostly to identify where travel capacity will be needed and to determine the infrastructure requirements necessary to meet that need. It is also used to support the calculation of mobile source emissions. The travel demand forecasting model is used to predict the total daily vehicle miles traveled (VMT) and MOBILE6.2 is used to produce emission factors to calculate the emissions per mile. The

product of these two outputs, once combined, is the total amount of pollution emitted by onroad vehicles for the particular analyzed area. Dubois County, Ohio Township in Spencer County and Washington Township in Pike County are Indiana areas included in U.S. EPA's nonattainment designations for fine particles that do not fall under the jurisdiction of EMPO. In cases such as this, INDOT uses Highway Performance Monitoring System (HPMS) baseline data to estimate and project mobile source emissions. This is a national program that requires state Departments of Transportation to collect traffic counts throughout the state on a regular basis under a certain regulated method. This HPMS data was collected and provided by INDOT and was used for these three areas beyond Evansville MPO's jurisdiction.

## 5.2 Overview

Broadly described, MOBILE6.2 is used to generate "emission factors," which are the average emissions per mile (grams/mile) for precursors of fine particles, including NO<sub>x</sub>, SO<sub>2</sub> and direct PM<sub>2.5</sub>. There are numerous variables that can affect the emission factors. The vehicle-fleet (vehicles on the road) age and the vehicle types have a major affect on the emission factors. The facility-type on which the vehicles are traveling (MOBILE6.2 facility types are Freeway, Arterial, Local and Ramp) and the vehicle speeds also affect the emission factor values. Meteorological factors such as air temperature and humidity affect the emission factors, as does fuel type, such as low Reid Vapor Pressure gasoline. These data are estimated using the *best available data* to generate emission factors for NO<sub>x</sub>, SO<sub>2</sub> and direct PM<sub>2.5</sub>. After emission factors are generated, they must be multiplied by the VMT to determine the quantity of vehicle-related emissions. This information is derived from the travel demand model (TDM).

It should be noted that each year analyzed will have different emission factors, volumes, speeds and likely results in additional modeling. MOBILE6.2 input and output files can be found in Appendix F.

## 5.3 Analysis Years

The travel demand model contains road networks that are time specific. The EMPO has modeled the years 2002, 2010, 2015, 2025, and 2035. Information, including emissions, has also been interpolated from 2002 and 2010 for the years 2005 and 2008 and from 2015 and 2025 for the years 2020 and 2022. This Redesignation Petition provides emission inventory estimates for 2002, 2005, 2008, 2010, 2020, and 2022 to meet the requirements specified by the CAA and U.S. EPA. The emission estimates outlined in Section 4.0 of this document include the 2005, 2008, 2010, 2020, and 2022 mobile source emissions data referenced in Table 5.1.

## 5.4 Emission Estimations

Table 5.1 outlines predicted onroad emission estimates for the entire nonattainment area for the years 2005 (base year), 2008 (attainment year), 2015 (interim year), 2020 and 2022 (horizon year). The following emission estimates are based on the TDM network runs for the years 2005, 2008, 2015, 2020, and 2022.

**Table 5.1**  
**Emission Estimations for Onroad Mobile Sources**  
**for the Southwestern Indiana Area**

	<b>2005</b>	<b>2008</b>	<b>2015</b>	<b>2020</b>	<b>2022</b>
<b>Direct PM<sub>2.5</sub> (tons/year)</b>	117.67	91.59	54.33	50.48	48.93
<b>NO<sub>x</sub> (tons/year)</b>	6,528.04	5,018.06	2,503.19	1,929.38	1,699.86

#### 5.5 Motor Vehicle Emission Budgets

Table 5.2 contains the MVEBs for the entire nonattainment area for the years 2015 and 2022.

**Table 5.2**  
**Mobile Source Emission Budgets**  
**for the Southwestern Indiana Area**

	<b>2015</b>	<b>2022</b>
<b>PM<sub>2.5</sub> (tons/year)</b>	57.05	53.83
<b>NO<sub>x</sub> (tons/year)</b>	2,628.35	1,869.84

Consistent with the federal implementation rule for fine particles, IDEM does not consider mobile source SO<sub>2</sub> emissions to be a significant contributor to fine particles for this nonattainment area, as SO<sub>2</sub> constitutes less than 1% of the area's total anthropogenic emissions for the years 2005, 2008, 2015, 2020 or 2022.

This document creates an interim year budget for 2015 and a horizon year budget for 2022 for the Southwestern Indiana Area. These budgets are based on the 2005 onroad emission inventory used to support photochemical modeling for the same year and has incorporated an appropriate safety margin as described below.

In an effort to accommodate future variations in TDMs and VMT forecast when no change to the network is planned, IDEM consulted with the interagency consultation group, including U.S. EPA Region V, to determine a reasonable approach to address this variation. The interagency consultation group approved a 5% safety margin for PM<sub>2.5</sub> and NO<sub>x</sub> mobile source emission estimates for the year 2015 and a 10% safety margin for PM<sub>2.5</sub> and NO<sub>x</sub> mobile source emission estimates for the year 2022.

The safety margins are appropriate because: 1) there is an acknowledged potential variation in VMT forecast and potential estimated mobile source emissions due to expected modifications to TDM and mobile emission models; and 2) the total decrease in emissions from all sources is sufficient to accommodate the safety margin allocations detailed above to mobile sources while still continuing to maintain total emissions in the Southwestern Indiana Area well below the 2008 attainment level of emissions. These safety margins were calculated by adding a straight-line percentage to the mobile source emission estimates for the years 2015 and 2022. Safety margin, as defined by the conformity rule, looks at the total emissions from all sources in the

nonattainment area. The resulting 2015 and 2022 MVEBs for PM<sub>2.5</sub> and NO<sub>x</sub> emissions remain well below the 2005 base year emissions referenced in Table 5.1.

In summary, the mobile budget safety margin allocation translates into:

- An allocation of 2.72 tons/year for PM<sub>2.5</sub> and 125.16 tons/year for NO<sub>x</sub> for 2015.
- An allocation of 4.90 tons/year for PM<sub>2.5</sub> and 169.98 tons/year for NO<sub>x</sub> for 2022.

The rule at 40 CFR 93.101 defines safety margin as the amount by which the total projected emissions from all sources of a given pollutant are less than the total emissions that would satisfy the applicable requirement for reasonable further progress, attainment or maintenance. When compared to the overall safety margin as defined by 40 CFR 93.101, it is evident this allocation to mobile sources is significantly below the total safety margin for all sources in the Southwestern Indiana Area as detailed in Table 4.1.

While IDEM believes that this is sufficient to support the requested increase, IDEM and its partners will be conducting additional air quality modeling which will include the adjusted mobile emissions, as well as any additional corrections and modifications that may be necessary due to the constant review and evaluation of the model inputs.

#### 5.6 Commitment to Amend Motor Vehicle Emission Budgets Using Motor Vehicle Emission Simulator (MOVES)

On March 2, 2010, U.S. EPA published a Notice of Availability for the Motor Vehicle Emission Simulator (MOVES) model. Indiana is committed to submitting a revision to the MOBILE6.2 developed MVEBs using the MOVES model as soon as possible and well in advance of the March 2, 2012, expiration of the transportation conformity “grace period.” IDEM recognizes that U.S. EPA will allow the MOBILE6.2 budgets to be replaced through an adequacy notice in place of a full publication to the Federal Register.

All methodologies, latest planning assumptions, margins of safety and MOVES model commitments were determined appropriate through the interagency consultation process.

## **6.0 CONTROL MEASURES AND REGULATIONS**

This section provides specific information on the control measures that have been or will be implemented in the Southwestern Indiana Area, including CAA requirements and additional state or local measures implemented beyond CAA requirements.

### 6.1 Reasonably Available Control Technology (RACT)

As required by Section 172 of the CAA, in the mid-1990s, Indiana promulgated rules requiring RACT for emissions of VOCs. There were no specific rules required by the CAA, such as RACT for existing sources, beyond statewide rules. Statewide RACT rules have applied to all

new sources locating in Indiana since that time. The Indiana rules are found in 326 IAC 8. The following is a listing of applicable rules:

326 IAC 8-1-6	BACT for Non-Specific Sources
326 IAC 8-2	Surface Coating Emission Limitations
326 IAC 8-3	Solvent Degreasing Operations
326 IAC 8-4	Petroleum Sources
326 IAC 8-5	Miscellaneous Operation
326 IAC 8-6	Organic Solvent Emission Limitations

Since the Southwestern Indiana Area attained the annual NAAQS for fine particles prior to an Attainment SIP or RACT SIP being due, and since the Implementation Rule for fine particles stipulates that states are only required to draft and implement RACT rules for the precursor emission reductions necessary to attain the standard, no further RACT rules are required for this area. These Indiana rules are CAA requirements already in the SIP and provide secondary benefits for PM<sub>2.5</sub>.

## 6.2 Implementation of Past State Implementation Plan (SIP) Revisions

The area was designated nonattainment for the annual standard for fine particles in 2003 and the area attained the standard well in advance of its attainment deadline of 2010. As a result, Indiana is no longer required to develop and submit an Attainment SIP or RACT SIP for this area under the annual NAAQS for fine particles.

## 6.3 Nitrogen Oxides (NO<sub>x</sub>) Rule

The U.S. EPA NO<sub>x</sub> SIP Call required twenty-two states to adopt rules that would result in significant emission reductions from large EGUs, industrial boilers, and cement kilns in the eastern United States. The Indiana rule was adopted in 2001. Beginning in 2004, this rule accounts for a reduction of approximately 31% of all NO<sub>x</sub> emissions statewide compared to previous uncontrolled years.

Twenty-one other states have also adopted these rules. The result is that significant reductions have occurred regionally and within the nonattainment area because of the number of affected units within the region. From Graph 4.7 and Figures 4.1 and 4.2, it can be seen that emissions covered by this program have been generally trending downward since 1999. Table 6.1, compiled from data taken from the U.S. EPA Clean Air Markets Web site, quantifies the gradual NO<sub>x</sub> reductions that have occurred in Indiana as a result of Title IV (Acid Rain) of the CAA and the NO<sub>x</sub> SIP Call Rule. The NO<sub>x</sub> SIP Call cap stayed in place through 2008, at which time the caps in the CAIR program superseded it. Since CAIR is a regional cap and trade program, it cannot be predicted at this time what effect this will have on EGU units located in the nonattainment area or other upwind counties.

Further, U.S. EPA published Phase II of the NO<sub>x</sub> SIP Call that establishes a budget for large (emissions of greater than 1 ton per day) stationary internal combustion engines. In Indiana, the rule decreases emissions statewide from natural gas compressor stations by 4,263 tons during the

ozone season (April through September). The Indiana Phase II NO<sub>x</sub> SIP Call Rule became effective February 26, 2006, and implementation began in 2007.

**Table 6.1**  
**Trends in EGU NO<sub>x</sub> Emissions Statewide in Indiana**

<b>Year</b>	<b>NO<sub>x</sub> Emissions (tons /year)</b>
1999	347,216.5
2000	334,522.1
2001	315,419.7
2002	281,146.1
2003	260,980.0
2004	224,311.3
2005	207,981.6
2006	202,728.0
2007	196,553.1
2008	196,134.5
2009	110,968.9
Budget 2009-2014	108,935
Budget 2015 and later	90,779

#### 6.4 Measures Beyond Clean Air Act SIP Requirements

Reductions in fine particle precursor emissions have occurred, or are anticipated to occur, as a result of local and federal programs. These additional control measures include those listed in this section.

##### *Tier 2 Vehicle Standards*<sup>8</sup>

Federal Tier 2 motor vehicle standards require all passenger vehicles in a manufacturer's fleet, including light-duty trucks and sport utility vehicles (SUVs), to meet an average standard of 0.07 grams of NO<sub>x</sub> per mile. Implementation began in 2004 and was completed in 2007. The Tier 2 standards also cover passenger vehicles over 8,500 pounds gross vehicle weight rating (larger pickup trucks and SUVs), which are not covered by the current Tier 1 standards. For these vehicles, the standards were phased in beginning in 2008, with full compliance in 2009. The new standards require vehicles to be 77% to 95% cleaner than those on the road prior to the program. The Tier 2 standards also reduced the sulfur content of gasoline to 30 parts per million (ppm) beginning in January 2006. Most gasoline sold in Indiana prior to January 2006 had a sulfur content of about 500 ppm. Sulfur occurs naturally in gasoline, but interferes with the operation of catalytic converters on vehicles resulting in higher NO<sub>x</sub> emissions. Lower sulfur gasoline is necessary to achieve the Tier 2 vehicle emission standards.

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<sup>8</sup> <http://www.epa.gov/fedrgstr/EPA-AIR/2000/February/Day-10/a19a.htm>

### Heavy-Duty Gasoline and Diesel Highway Vehicle Standards<sup>9</sup>

New U.S. EPA standards designed to reduce NO<sub>x</sub> and VOC emissions from heavy-duty gasoline and diesel highway vehicles took effect in 2004. A second phase of standards and testing procedures, that began in 2007, reduced PM<sub>2.5</sub> emissions from heavy-duty highway engines and also reduced highway diesel fuel sulfur content to 15 ppm since the sulfur can damage emission control devices. The total program is expected to achieve a 90% reduction in direct PM<sub>2.5</sub> emissions and a 95% reduction in NO<sub>x</sub> emissions for these new engines using low sulfur diesel, compared to existing engines using higher sulfur content diesel. There will also be SO<sub>2</sub> reductions from these rules. U.S. EPA has not quantified the expected reductions.

### Large Nonroad Diesel Engine Standards<sup>10</sup>

In May 2004, U.S. EPA promulgated new rules for large nonroad diesel engines, such as those used in construction, agricultural, and industrial equipment, to be phased in between 2008 and 2014. The nonroad diesel rules also reduce the allowable sulfur in nonroad diesel fuel by over 99%. Prior to 2006, nonroad diesel fuel averaged approximately 3,400 ppm sulfur. This rule limited nonroad diesel sulfur content to 500 ppm by 2006 with a further reduction to 15 ppm by 2010. The combined engine and fuel rules will reduce NO<sub>x</sub> and PM emissions from large nonroad diesel engines by over 90%, compared to current nonroad engines using higher sulfur content diesel.

### Nonroad Spark-Ignition Engines and Recreational Engine Standards

This new standard, effective in July 2003, regulates NO<sub>x</sub>, VOCs, and carbon monoxide (CO) for groups of previously unregulated nonroad engines. The new standard applies to all new engines sold in the United States and imported after the standards went into effect. The standard applies to large spark-ignition engines (forklifts and airport ground service equipment), recreational vehicles (off-highway motorcycles and all-terrain vehicles), and recreational marine diesel engines. The regulation varies based upon the type of engine and vehicle.

The large spark-ignition engines contribute to ozone formation and ambient CO and PM levels in urban areas. Tier 1 of this standard was implemented in 2004 and Tier 2 started in 2007. Like the large spark-ignition engines, recreational vehicles contribute to ozone and fine particles formation and ambient CO and PM levels. For Model Year 2006 off-highway motorcycles and all-terrain vehicles, at least 50% of a manufacturer's fleet was required to meet the new exhaust emissions standard and 100% of the fleet was required to meet the standards in 2007. Recreational marine diesel engines over 37 kilowatts are used in yachts, cruisers and other types of pleasure craft. Recreational marine engines contribute to ozone formation and PM levels, especially surrounding marinas.

When all of the nonroad spark-ignition engines and recreational engine standards are fully implemented, an overall 72% reduction in VOC, 80% reduction in NO<sub>x</sub>, and 56% reduction in

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9 <http://www.epa.gov/fedrgstr/EPA-AIR/1997/October/Day-21/a27494.htm>

10 <http://www.epa.gov/fedrgstr/EPA-AIR/1998/October/Day-23/a24836.htm>



CO emissions are expected by 2020.

### *Reciprocating Internal Combustion Engine Standards*<sup>11</sup>

This new standard, effective in May 2010, regulates emissions of air toxics from existing diesel powered stationary reciprocating internal combustion engines that meet specific site rating, age and size criteria. These engines are typically used at industrial facilities (e.g. power, chemical and manufacturing plants) to generate electricity for compressors and pumps and to produce electricity to pump water for flood and fire control during emergencies.

The standard applies to stationary diesel engines: (1) used at area sources of air toxics and constructed or reconstructed before June 12, 2006; (2) used at major sources of air toxics, having a site rating of less than or equal to 500 horsepower, and constructed or reconstructed before June 12, 2006; and, (3) used at major sources of air toxics for non-emergency purposes, having a site rating of greater than 500 horsepower, and constructed or reconstructed before December 19, 2002.

Operators of existing engines will be required to: (1) install emissions control equipment that would limit air toxics up to 70% for stationary non-emergency engines with a site rating greater than 300 horsepower; (2) perform emission tests to demonstrate engine performance and compliance with rule requirements; and, (3) burn ultra-low sulfur fuel in station non-emergency engines with a site rating greater than 300 horsepower.

When all of the reciprocating internal combustion engine standards are fully implemented in 2013, U.S. EPA estimates that emissions from these engines will reduce air toxics by approximately 1,000 tons per year (tpy), PM<sub>2.5</sub> by 2,800 tpy, CO by 14,000 tpy, and VOCs by 27,000 tpy.

### *Category 3 Marine Diesel Engine Standards*<sup>12</sup>

This new standard, effective in June 2010, promulgates more stringent exhaust emission standards for new large marine diesel engines with per-cylinder displacement at or above 30 liters (commonly referred to as Category 3 compression-ignition marine engines) as part of a coordinated strategy to address emissions from all ships that affect U.S. air quality. These emission standards are equivalent to those adopted in the amendments to Annex VI to the International Convention for the Prevention of Pollution from Ships (MARPOL Annex VI). The emission standards apply in two stages—near-term standards for newly built engines will apply beginning in 2011; long-term standards requiring an 80% reduction in NO<sub>x</sub> emissions will begin in 2016.

U.S. EPA is adopting changes to the diesel fuel program to allow for the production and sale of diesel fuel with up to 1,000 ppm sulfur for use in Category 3 marine vessels. The regulations generally forbid production and sale of fuels with more than 1,000 ppm sulfur for use in most U.S. waters, unless operators achieve equivalent emission reductions in other ways.

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<sup>11</sup> <http://www.epa.gov/ttn/atw/rice/fr03mr10.pdf>

<sup>12</sup> <http://www.regulations.gov/search/Regs/home.html#documentDetail?R=0900006480ae43a6>

U.S. EPA is also adopting provisions to apply some emission and fuel standards to foreign-flagged and in-use vessels that are covered by MARPOL Annex VI.

When this strategy is fully implemented in 2030, U.S. EPA estimates that NO<sub>x</sub> and PM emissions in the U.S. will be reduced by approximately 1.2 million tpy and 143,000 tpy, respectively.

#### Clean Air Interstate Rule (CAIR)

On May 12, 2005, U.S. EPA promulgated the “Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Clean Air Interstate Rule); Revisions to Acid Rain Program; Revisions to the NO<sub>x</sub> SIP Call”; Final Rule (70 FR 25162). This rule established the requirement for states to adopt rules limiting the emissions of NO<sub>x</sub> and SO<sub>2</sub> and provided a model rule for the states to use in developing their rules to meet federal requirements. The purpose of CAIR was to reduce interstate transport of precursors of fine particles and ozone.

CAIR applied to: (1) any stationary, fossil fuel-fired boiler or stationary, fossil fuel-fired combustion turbine, a generator with a nameplate capacity of more than 25 megawatt electrical (MWe) producing electricity for sale; and (2) for a unit that qualifies as a cogeneration unit during the 12-month period starting on the date that the unit first produces electricity and continues to qualify as a cogeneration unit, a cogeneration unit serving at any time a generator with a nameplate capacity of more than 25 MWe and supplying in any calendar year more than one-third of the unit’s potential electric output capacity or 219,000 megawatt hours (MWh), whichever is greater to any utility power distribution system for sale.

This rule provided annual state caps for NO<sub>x</sub> and SO<sub>2</sub> in two phases, with the Phase I caps for NO<sub>x</sub> and SO<sub>2</sub> starting in 2009 and 2010, respectively. Phase II caps become effective in 2015. U.S. EPA allows the caps to be met through a cap and trade program if a state chooses to participate in the program.

In response to U.S. EPA’s rulemaking, IDEM adopted a state rule in 2006 based on the model federal rule. IDEM’s rule includes an annual and seasonal NO<sub>x</sub> trading program and an annual SO<sub>2</sub> trading program. This rule required compliance effective January 1, 2009.

SO<sub>2</sub> emissions from power plants in the 28 eastern states and the District of Columbia covered by CAIR will be cut by 4.3 million tons by 2009 and reduced by an additional 5.4 million tons in 2015. NO<sub>x</sub> emissions will be cut by 1.7 million tons by 2009 and reduced by an additional 1.3 million tons in 2015. The D.C. Circuit court’s vacatur of CAIR in July 2008 and subsequent remand without vacatur of CAIR in December 2008 directs U.S. EPA to revise or replace CAIR in order to properly address the deficiencies outlined by the court.

Since the court’s opinion made it clear that CAIR is deficient and must be revised or replaced, the program cannot be defined as permanent and enforceable for SIP purposes. On July 6, 2010, U.S. EPA proposed the Transport Rule to replace CAIR. The Transport Rule will result in even further benefits above and beyond CAIR than what is assumed within the emission inventories and modeling.

Together, these rules will substantially reduce local and regional sources of fine particle precursors. The modeling analyses discussed in Section 7.0 include these rules and show the reductions in annual fine particle concentrations expected to result from the implementation of these rules.

#### 6.5 Controls to Remain in Effect

Indiana commits to maintain the control measures listed above after redesignation, or submit to U.S. EPA, as a SIP revision, any changes to its rules or emission limits applicable to NO<sub>x</sub>, SO<sub>2</sub> or direct PM<sub>2.5</sub> sources as required for maintenance of the annual standard for fine particles in the Southwestern Indiana Area.

Indiana, through IDEM's OAQ and its Compliance and Enforcement Branch, has the legal authority and necessary resources to actively enforce any violations of its rules or permit provisions. After redesignation, it intends to continue enforcing all rules that relate to the emission of fine particles and fine particle precursors in the Southwestern Indiana Area.

#### 6.6 New Source Review Provisions

Indiana has a long standing and fully implemented New Source Review (NSR) program that is outlined in rule at 326 IAC 2. The rule includes provisions for the Prevention of Significant Deterioration (PSD) permitting program in 326 IAC 2-2. Indiana's PSD program was conditionally approved on March 3, 2003, (68 FR 9892) and received final approval on May 20, 2004, (69 FR 29071) by U.S. EPA as part of the SIP.

Any emission unit that is not listed in the 2005 emission inventory, or for which credit through the shutdown or curtailment of operation was taken in demonstrating attainment, will not be allowed to construct, reopen, modify, or reconstruct without meeting all applicable permit rule requirements. The review process will be identical to that used for new sources. Once the area is redesignated, OAQ will implement NSR through the PSD program, which requires an air quality analysis to evaluate whether the new source will threaten the NAAQS.

### **7.0 MODELING AND METEOROLOGY**

Although U.S. EPA's Redesignation Guidance does not require modeling for nonattainment areas seeking redesignation, extensive modeling has been performed covering the Southwestern Indiana Area to determine the effect of national emission control strategies on fine particle levels. These modeling analyses determined that the Southwestern Indiana Area, including Vanderburgh, Warrick, and Dubois counties and Montgomery Township in Gibson County, Ohio Township in Spencer County, and Washington Township in Pike County, is significantly impacted by regional transport of fine particles and its precursors, and that regional SO<sub>2</sub> and NO<sub>x</sub> reductions are an effective way to attain the annual standard for fine particles in this area. Future year modeled annual fine particle concentrations are expected to be reduced by 2% to 9% from baseline design values. Examples of these modeling analyses are described in this section and can be found in Appendix K.

## 7.1 Summary of Modeling Results to Support Rulemakings

### U.S. EPA Modeling for Transport Rule 2010<sup>13</sup>

U.S. EPA performed modeling to support the emission reductions associated with the proposed Transport Rule. U.S. EPA used the Comprehensive Air Quality Model with Extension (CAMx Version 5), applied to the 2005 meteorology, as processed by the Mesoscale Model (MM5), Version 3.7.4. Emissions input into CAMx included SO<sub>2</sub>, NO<sub>x</sub>, VOCs, NH<sub>3</sub>, and direct PM<sub>2.5</sub> for 2005. The modeling was based on the annual fine particle design values calculated from 2003 through 2005, 2004 through 2006, and 2005 through 2007. Future year modeling was conducted, which included the Southwestern Indiana Area, and the future year design values for 2012 and 2014 were evaluated for attainment of the annual NAAQS for fine particles of 15 µg/m<sup>3</sup>, as shown in Table 7.1. Fine particle concentrations are accounted for by modeling both the base future year emissions and then the emission reductions associated with the Transport Rule. U.S. EPA found model performance met suggested benchmark performance goals within or close to the ranges found in other comparable modeling applications.

**Table 7.1**  
**Transport Rule Modeling Results from U.S. EPA – 2010**

County	Monitor ID	Design Value 2003-2007 (µg/m <sup>3</sup> )	Future Design Value 2012 Base (µg/m <sup>3</sup> )	Future Design Value 2014 Base (µg/m <sup>3</sup> )
Vanderburgh Co.	18-163-0006	14.69	14.55	14.02
Vanderburgh Co.	18-163-0012	14.82	14.64	14.09
Vanderburgh Co.	18-163-0016	14.99	14.84	14.30
Dubois Co.	18-037-2001	15.18	15.07	14.50
Knox Co.	18-083-0004	14.03	13.94	13.33
Spencer Co.	18-147-0009	14.32	14.21	13.65
Daviess Co. – KY	21-059-0005	14.10	14.14	13.59

Modeling results show that the base future year modeling with emission reductions from the Transport Rule accounts for decreases of 0.1 to 0.2 µg/m<sup>3</sup> in concentrations for 2012 as well as a 0.5 to 0.7 µg/m<sup>3</sup> decrease in concentrations for 2014 in the Southwestern Indiana Area.

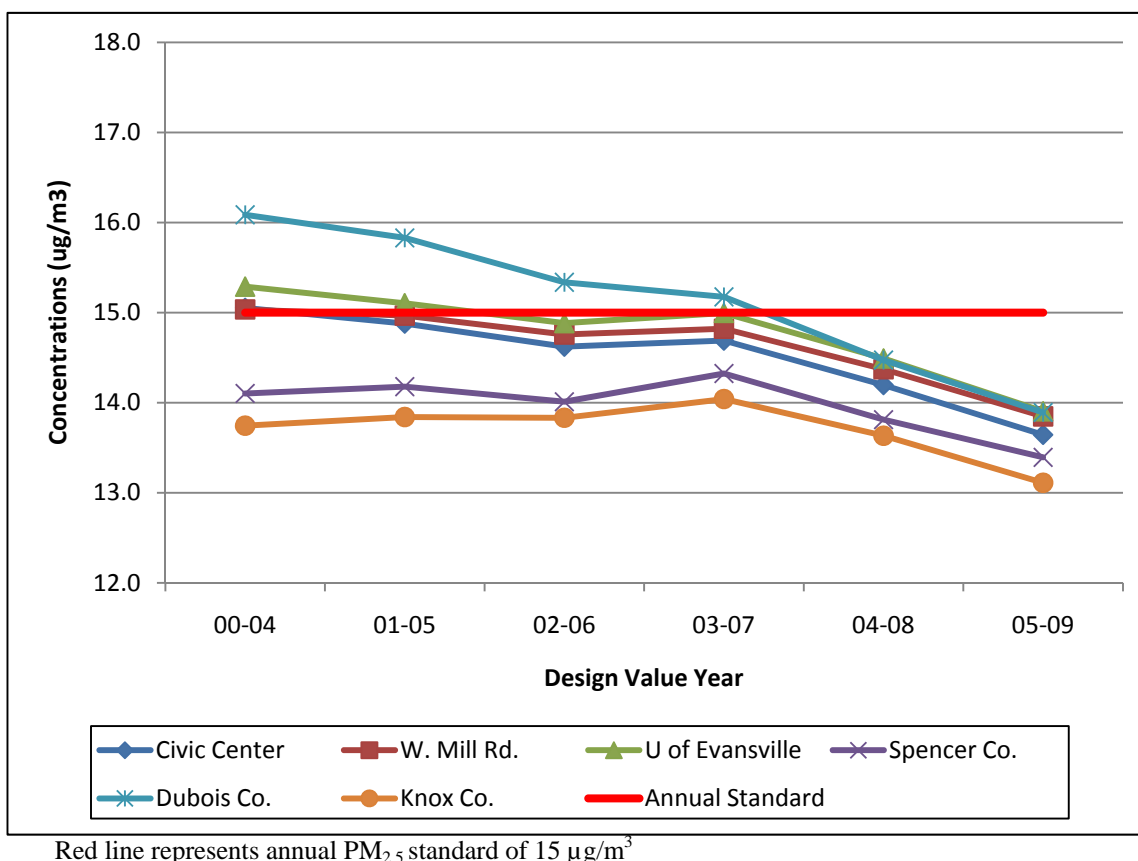
While results of U.S. EPA's Transport Rule modeling show modeled concentrations above the standard using base case emissions at the DuboisCounty PM<sub>2.5</sub> monitoring site, it should be noted that the base year design value used by U.S. EPA was taken from 2003 through 2007 and is higher than 2005 through 2009 design values in the area. Graph 7.1 shows the downward trend of the design values from 2000 through 2009 for the PM<sub>2.5</sub> monitors in the Southwestern Indiana Area. The resulting decrease of the 2003 through 2007 design value to the 2005 through 2009 design value at the Dubois County PM<sub>2.5</sub> monitor is 1.3 µg/m<sup>3</sup> with all the area's PM<sub>2.5</sub>

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13 [http://www.epa.gov/airquality/transport/pdfs/TR\\_AQModeling\\_TSD.pdf](http://www.epa.gov/airquality/transport/pdfs/TR_AQModeling_TSD.pdf)

monitors design values decreasing from  $0.9 \mu\text{g}/\text{m}^3$  to  $1.3 \mu\text{g}/\text{m}^3$ . Therefore, U.S.EPA's Transport Rule modeling, using 2005 through 2009 design values, shows all modeled concentrations below the annual fine particles standard of  $15.0 \mu\text{g}/\text{m}^3$ .

**Graph 7.1**  
**PM<sub>2.5</sub> Design Value Trends for the Southwestern Indiana Area - 2000 through 2009**



Results of the Transport Rule modeling show that the Southwestern Indiana Area will attain the annual fine particle NAAQS in 2012 with modeled impacts reduced by 1% to 2% and remain below  $15 \mu\text{g}/\text{m}^3$ . With further reductions projected in the Transport Rule for 2014, all design values decrease by 4% to 5% and the area will continue to attain the annual NAAQS for fine particles.

#### LADCO Modeling for Clean Air Interstate Rule (CAIR)

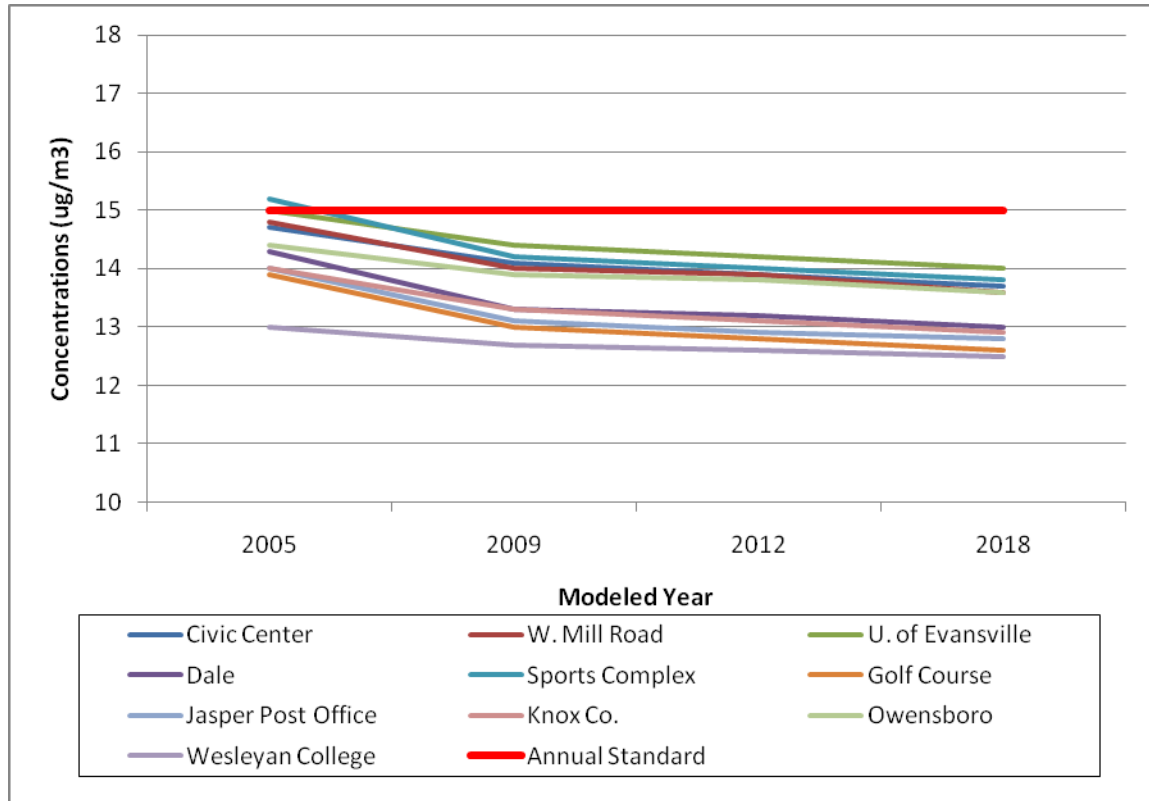
LADCO conducted modeling to determine the impact of CAIR in the Midwest. LADCO's modeling used the CAMx model applied to the year 2005 meteorology, as processed by the MM5. Emissions input into CAMx included SO<sub>2</sub>, NO<sub>x</sub>, VOCs, NH<sub>3</sub>, and direct PM<sub>2.5</sub> for 2005. The modeling was based on 2003 through 2007 design values. Future year modeling for 2012 and 2018 was conducted and the future year design values were determined without the emission reductions associated with CAIR (Round 6), as shown in Table 7.2. The Transport Rule is expected to provide reductions above and beyond CAIR.

**Table 7.2**  
**LADCO Round 6 Modeling Results**  
**(Without the Clean Air Interstate Rule emission reductions)**

<b>Monitor ID</b>	<b>Monitor Name</b>	<b>County</b>	<b>Design Value 2003-2007 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Base-case 2012 (<math>\mu\text{g}/\text{m}^3</math>)</b>	<b>Base-case 2018 (<math>\mu\text{g}/\text{m}^3</math>)</b>
18-163-0006	Civic Center	Vanderburgh	14.7	13.9	13.7
18-163-0012	W. Mill Rd.	Vanderburgh	14.8	13.9	13.6
18-163-0016	Univ. of Evansville	Vanderburgh	15.0	14.2	14.0
18-147-0009	Dale	Spencer	14.3	13.2	13.0
18-037-2001	Jasper Post Office	Dubois	15.2	14.0	13.8
18-037-0004	Sports Complex	Dubois	13.9	12.8	12.6
18-037-0005	Jasper Golf Course	Dubois	14.0	12.9	12.8
18-083-0004	SW Purdue Ag.	Knox	14.0	13.1	12.9
21-059-0005	Owensboro	Daviess - KY	14.4	13.8	13.6
21-059-0014	Wesleyan College	Daviess - KY	13.0	12.6	12.5

Results of the LADCO Round 6 modeling show that the Southwestern Indiana Area would attain the annual NAAQS for fine particles by 2012. As shown in Table 7.2, future year modeled annual fine particle concentrations for 2012 will be 3% to 8% lower than baseline annual fine particle design values, and 4% to 9% lower in 2018 and will continue to decrease thereafter. A graphical representation of LADCO's Round 6 modeling results is shown in Graph 7.2, showing future year modeled results that the Southwestern Indiana Area will attain the annual fine particles NAAQS.

**Graph 7.2**  
**LADCO Modeling Results for Southwestern Indiana**  
**PM<sub>2.5</sub> Monitors – 2005, 2009, 2012 and 2018**



Red line represents annual PM<sub>2.5</sub> standard of 15 µg/m<sup>3</sup>

## 7.2 LADCO Round 5 Speciated Modeled Attainment Test Results

The Speciated Modeled Attainment Test (SMAT) is the attainment test for annual fine particles. To determine the future year annual fine particle concentrations, speciated data is calculated. The different species that were modeled and are associated with fine particles include sulfates, nitrates, organic carbon, elemental carbon, ammonium, particle bound water, “other” primary inorganic fine particles and passively collected mass. The SMAT results from LADCO’s Round 5 modeling are listed below. Percent ranges of the model results from the six fine particle monitors in Southwestern Indiana were broken down into these speciated constituents of fine particle emissions. The percent decrease from the observed speciated data in 2005 to the modeled results for 2009 are listed in Table 7.3.

**Table 7.3**  
**LADCO Round 5 SMAT Modeling Results for Southwestern Indiana**  
**(Percent decrease from observed to modeled concentrations)**

<b>Species of PM<sub>2.5</sub></b>	<b>2009</b>
Sulfates	24% - 29%
Nitrates	0% - 8%
Organic Carbon	0% - 4%
Elemental Carbon	0% - 20%
Ammonium	16% - 26%
Particle Bound Water	19% - 31%

The results demonstrate that sulfate, ammonium, and particle bound water concentration decreases are projected to occur by at least 16% in 2009. Lesser nitrate reductions are projected to occur, up to 8%, with organic carbon reductions occurring up to 4%. LADCO modeling shows good performance for sulfates and elemental carbon predicted baseline concentrations, slight over-prediction for nitrate concentrations and under-predictions of organic carbon concentrations. Overall, model performance is adequate for SIP planning and gives a good idea of the effects of emission reductions from national emission control measures on the Southwestern Indiana Area.

### 7.3 LADCO Round 5 Particulate Source Apportionment Results

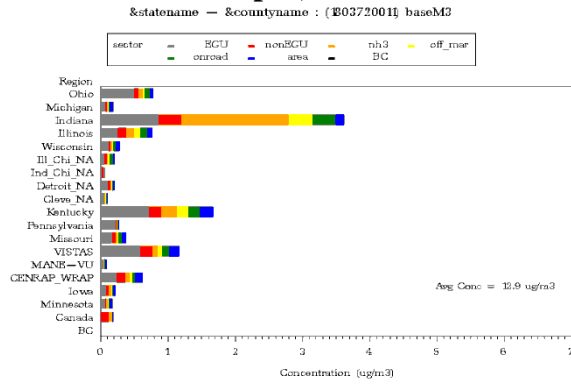
Particulate Source Apportionment (PSAT) modeling was conducted by LADCO. The results of the PSAT Round 5 modeling shows the regional contributions by emission sectors on each monitor that was modeled. Chart 7.1 displays the PSAT modeling results for the: Jasper, Dubois County fine particles monitor; Civic Center, West Mill Road, and University of Evansville fine particles monitors in Vanderburgh County; Dale, Spencer County fine particles monitor; and the Knox County fine particles monitor. Indiana was the biggest regional contributor to the Jasper, West Mill Road and the Dale fine particle monitors. Kentucky was the biggest regional contributor to the Civic Center and University of Evansville fine particle monitors. Illinois was the biggest regional contributor to the Knox County fine particles monitor.

The PSAT Round 5 modeling results indicate the majority of Indiana's emission sector contributions to fine particle concentrations come from EGUs, ammonium emission sources, off-road (including marine, aircraft, and railroad) and non-EGU sources. These results are considered to be representative of the entire Southwestern Indiana Area as EGU, ammonium, and non-EGU emissions impact the entire area.

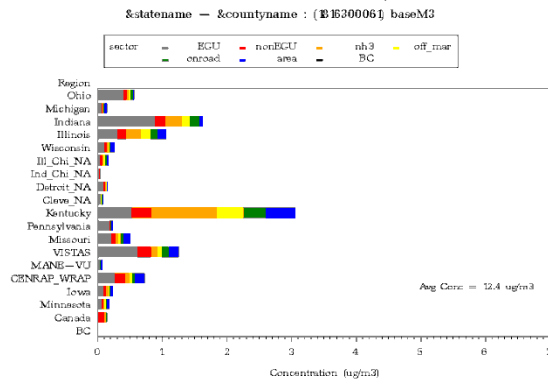


## Chart 7.1 Regional/Emission Sector PSAT Results

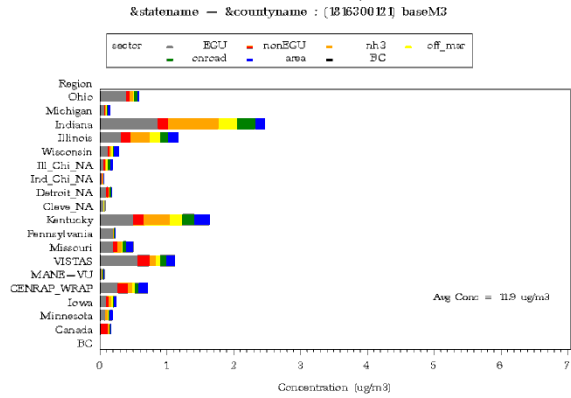
### Jasper, Dubois Co.



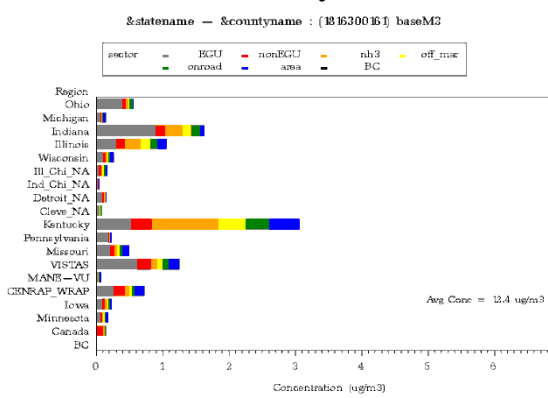
### Civic Center, Evansville



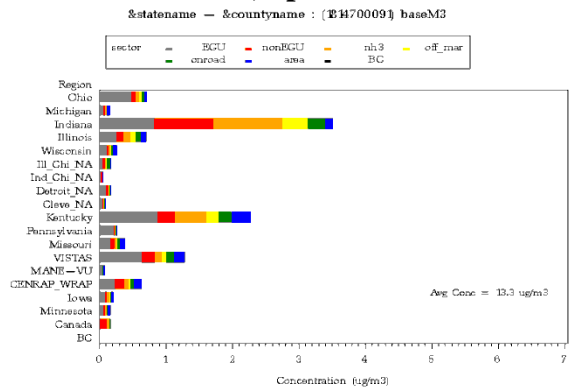
### West Mill Road, Evansville



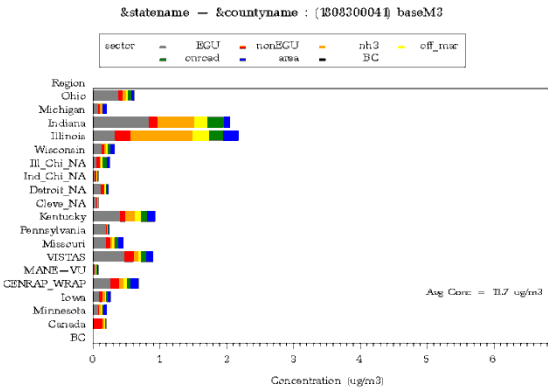
### University of Evansville



### Dale, Spencer Co.



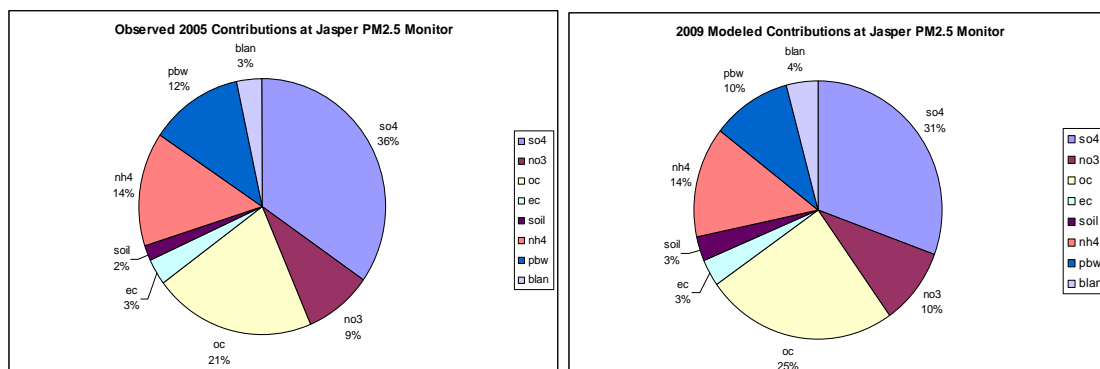
### Knox Co.



The following pie charts depict the contribution by species to fine particle concentrations at the Southwestern Indiana monitors. The pie charts include both the observed 2005 contributions and 2009 modeled contributions for each monitor. Since the monitors are in close proximity of each other, results are fairly similar in the distribution of species concentrations among the monitors. Charts 7.2 and 7.3 cover the fine particle monitors in the Southwestern Indiana Area with the highest monitored concentrations that are used to determine compliance with the annual NAAQS for fine particles.

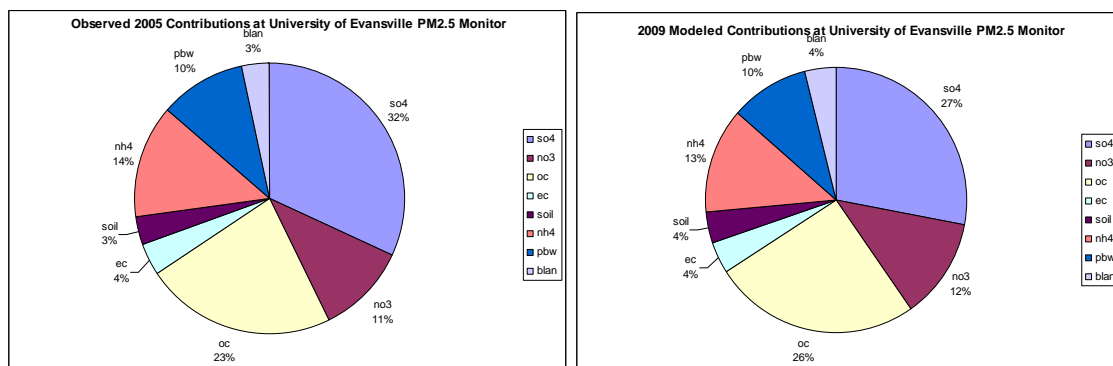
**Chart 7.2**

**Modeled Contribution by Species to Jasper, Dubois Co. PM<sub>2.5</sub> Monitor**  
 (Observed Concentrations = 14.8 µg/m<sup>3</sup>) (Modeled Concentrations = 14.0 µg/m<sup>3</sup>)



**Chart 7.3**

**Modeled Contribution by Species to University of Evansville PM<sub>2.5</sub> Monitor**  
 (Observed Concentrations = 15.4 µg/m<sup>3</sup>) (Modeled Concentrations = 14.1 µg/m<sup>3</sup>)



Results of the Round 5 PSAT modeling for Southwestern Indiana fine particle monitors show the highest pollutant contributors to base-case and future year fine particle concentrations are sulfate, organic carbon, ammonium, and nitrate. Future year modeling shows decreases in sulfates (due to the emission reductions from CAIR) and ammonium. The future year modeling did show slight increases in organic carbon and nitrates from the base-case modeled concentrations.

#### 7.4 Summary of Existing Modeling Results

U.S. EPA and LADCO modeling for future year design values have consistently shown that existing national emission control measures will bring the Southwestern Indiana Area into attainment of the annual NAAQS for fine particles. Emission control measures to be implemented in the next several years will provide even greater assurance that air quality will continue to meet the standard into the future. Modeling support for CAIR has shown that future year design values for the Southwestern Indiana Area will continue to attain the annual standard for fine particles with modeled future year design values below  $15 \mu\text{g}/\text{m}^3$ . U.S. EPA future year modeling of national emission control strategies showed the Southwestern Indiana Area will attain the annual NAAQS for fine particles without additional national emission controls. Future national and local emission control strategies will ensure that the Southwestern Indiana fine particle nonattainment area will maintain lower fine particle concentrations with an increasing margin of safety.

#### 7.5 Meteorological Analysis for Southwestern Indiana

Meteorological conditions are one of the most important factors that influence development and transport of fine particles. Stagnant surface conditions during any time of the year and upper air ridging provides conducive conditions for development and transport of fine particles. Ultimately, passage of surface cold fronts with a clean air mass change will lower fine particle readings in the Southwestern Indiana Area.

#### 7.6 Surface Air Conditions Present during High Fine Particle Concentrations Days

Higher concentrations of fine particles tend to correlate with warmer temperatures and lighter wind speeds, although high fine particle episodes can occur in the summer or winter. It should be noted that higher annual fine particle concentrations are driven by individual days with higher fine particle concentrations throughout the monitored year. Therefore, it is difficult to attribute higher fine particle concentrations to annualized meteorological rankings. Review of several of the higher fine particle concentration episodes over the past few years reveal that conditions were hot in the summer with temperatures in the middle 80's Fahrenheit ( $^{\circ}\text{F}$ ) or higher and average wind speeds were fairly light. Fall and winter days with higher fine particle concentrations had near normal temperatures but wind speeds were very light.

#### 7.7 Upper Air Conditions Present during High Fine Particle Concentration Days

Upper air ridges and more stagnant surface wind conditions predominately affect development and build up of fine particles. Slow moving upper air ridges can effectively suppress mixing within the many levels of the atmosphere and cause pollutants to build up over time. Inversions or increases in temperature with a rise in altitude will prevent mixing with air from the upper atmosphere. These conditions can occur at any time of the year and are evident in elevated fine particle episodes in spring, summer, fall, and winter months. Review of surface and upper air features of higher fine particle concentration days showed stagnant surface conditions and upper air ridges existed on those days and helped in the buildup of fine particle concentrations.

## 7.8 Analyses of Atmospheric Conditions during High Fine Particle Concentration Days

Analyses have been conducted to determine the atmospheric conditions that are most prevalent during higher fine particle concentration days in Indiana. LADCO applied a Classification and Regression Tree (CART) analysis to data from Indiana that correlated different levels of fine particle concentrations to meteorological conditions from 1999 through 2004. (Donna Kenski, 2005). This type of analysis evaluates the meteorological conditions, such as temperature, pressure, wind speed, wind direction, relative humidity, and dew point temperatures at the surface, as well as morning and evening mixing heights in the upper atmosphere which were present when higher concentrations of fine particles were monitored. Results of this CART analysis indicated factors that played a larger role in higher fine particle concentrations in Indiana were warm-weather conditions with high dew points, southwest winds, and high evening mixing heights. Previous day's concentrations of fine particles play a key role in higher impacts as well.

Fine particles are made up of several constituents, including direct PM<sub>2.5</sub>, sulfates, nitrates, ammonium, organic carbon, and elemental carbon. Depending on the time of the year, concentrations of particulate constituents vary, with nitrates being more prevalent in the winter and sulfates more prevalent in the summer. Sulfate and nitrate emission reductions have the biggest impact on lower future year fine particle concentrations.

## 7.9 Summary of Air Quality Index Days in Southwestern Indiana

An analysis was conducted to review the daily fine particle concentrations over a year to determine the Air Quality Index (AQI) trends. Chart 7.4 below shows by year (2001 through 2009), the percentage number of days during the calendar year which fine particle concentrations reached the AQI ranges for “Good” (0 to 15.3 µg/m<sup>3</sup>), “Moderate” (15.4 µg/m<sup>3</sup> to 40.4 µg/m<sup>3</sup>) and “Unhealthy for Sensitive Groups (USG)” (40.5 µg/m<sup>3</sup> to 65.4 µg/m<sup>3</sup>). There were no days during which fine particle levels reached the “Unhealthy” level of 65.5 µg/m<sup>3</sup> to 150.4 µg/m<sup>3</sup>.

**Chart 7.4**  
**Distribution of PM<sub>2.5</sub> Concentration Days**  
**on the AQI Levels of Health Concern**

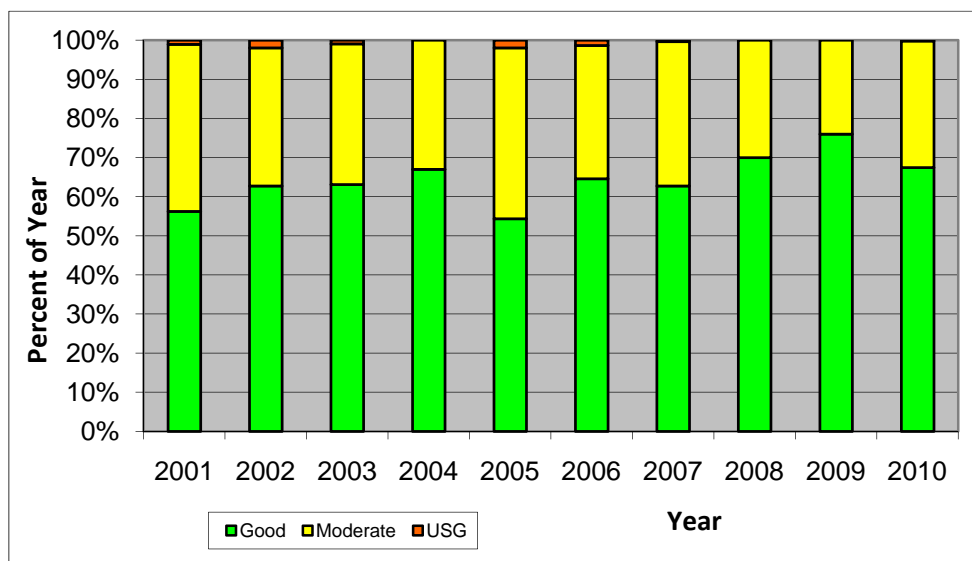


Table 7.4 shows how the years ranked for the three AQI ranges. The year 2009 had the most “Good” concentration days during the 9-year period analyzed (2001 through 2009). The year 2005 had the most “Moderate” concentration days and the years 2002, 2005, and 2006 had the most “Unhealthy for Sensitive Group (USG)” concentration days with no USG days recorded in 2004, 2007, 2008, and 2009.

**Table 7.4**  
**Ranking of Highest Number of Days at AQI Levels of Health Concern**

<b>Ranking</b>	<b>Good</b>	<b>Moderate</b>	<b>Unhealthy for Sensitive Group</b>
<b>1<sup>st</sup></b>	<b>2009 – 76%</b>	<b>2005 – 44%</b>	<b>2002 – 2%</b>
<b>2<sup>nd</sup></b>	<b>2008 – 70%</b>	<b>2001 – 43%</b>	<b>2005 – 2%</b>
<b>3<sup>rd</sup></b>	<b>2004 – 67%</b>	<b>2007 – 37%</b>	<b>2006 – 1%</b>
<b>4<sup>th</sup></b>	<b>2006 – 65%</b>	<b>2003 – 36%</b>	<b>2001 – 1%</b>
<b>5<sup>th</sup></b>	<b>2003 – 63%</b>	<b>2002 – 35%</b>	<b>2003 – 1%</b>
<b>6<sup>th</sup></b>	<b>2007 – 63%</b>	<b>2006 – 34%</b>	
<b>7<sup>th</sup></b>	<b>2002 – 63%</b>	<b>2004 – 33%</b>	
<b>8<sup>th</sup></b>	<b>2001 – 56%</b>	<b>2008 – 30%</b>	
<b>9<sup>th</sup></b>	<b>2005 – 54%</b>	<b>2009 – 24%</b>	

#### 7.10 Summary of Meteorological Analysis for Southwestern Indiana

Annual fine particle concentrations in the Southwestern Indiana Area are driven by higher fine particle concentration days that can occur during any time of the year. Conditions that are most prevalent during higher fine particle concentration days are lighter winds, higher relative humidity, and above average temperatures in the summer and near normal temperatures in the fall, winter or spring. Approximately 70% of the days when PM<sub>2.5</sub> concentrations were in the USG range occurred in the summer months with maximum high temperatures of 80° F or above. Weather plays a large role in fine particle concentration development and transport as 2001, 2002, 2005, and 2006 were warmer than normal summers which translated to more days of moderate and unhealthy for sensitive group levels of air quality. Upper air weather patterns generally include ridging over the area with stagnant conditions at the surface. Surface winds from any direction can transport pollutants from surrounding areas into the Southwestern Indiana Area. Nitrates are bigger contributors to fine particle concentrations in the winter and sulfates are bigger contributors to fine particle concentrations in the summer.

## **8.0 CORRECTIVE ACTIONS**

### 8.1 Commitment to Revise Plan

As noted in Section 4.6, IDEM commits to review and revise, as appropriate, its Maintenance Plan eight years after redesignation, as required by Section 175A of the CAA.

## 8.2 Commitment for Contingency Measures

IDEM will monitor fine particle concentrations to determine whether trends indicate higher values or whether emissions appear to be increasing. If it is determined that fine particle levels and emissions are increasing and action is necessary to reverse that trend, IDEM will take action to reverse the noted trend, prior to a violation of the standard occurring.

IDEM commits to adopt and expeditiously implement necessary corrective action in accordance with an Action Level Response described below.

### Action Level Response

An Action Level Response shall be prompted whenever a violation of the standard (three year average annual arithmetic mean value of  $15.1 \mu\text{g}/\text{m}^3$  or greater) occurs. In the event that the Action Level is triggered and is not found to be due to an atypical unfavorable meteorological condition, exceptional event, malfunction or noncompliance with a permit condition or rule requirement, IDEM will determine additional control measures needed to assure future attainment of the annual NAAQS for fine particles. In this case, measures that can be implemented in a short time will be selected in order to be in place within eighteen months from the end of the year that prompted the Action Level Response.

### Control Measure Selection and Implementation

Adoption of any additional control measures is subject to the necessary administrative and legal processes. This process will include publication of notices, an opportunity for public hearing and other measures required by Indiana law for rulemaking by state environmental boards.

If a new measure or control is already promulgated and scheduled to be implemented at the federal or state level, and that measure or control is determined to be sufficient to address the upward trend in air quality, additional local measures may be unnecessary. Furthermore, IDEM will submit to U.S. EPA an analysis to demonstrate the proposed measures are adequate to return the area to attainment.

## 8.3 Contingency Measures

Contingency measures to be considered will be selected from a comprehensive list of measures deemed appropriate and effective at the time the selection is made. Listed in this section are example measures that may be considered. The selection of measures will be based upon cost-effectiveness, emission reduction potential, economic and social considerations or other factors that IDEM deems appropriate. IDEM will solicit input from interested and affected persons in the maintenance area prior to selecting appropriate contingency measures. All of the listed contingency measures are potentially effective or proven methods of obtaining significant reductions of fine particle precursor emissions. Because it is not possible at this time to determine what control measure will be appropriate at an unspecified time in the future, the list of contingency measures is not comprehensive. IDEM anticipates that if contingency measures

should ever be necessary, it is unlikely that a significant number (i.e., all those listed below) will be required.

- 1) Alternative fuel and diesel retrofit programs for fleet vehicle operations.
- 2) Require NO<sub>x</sub> or SO<sub>2</sub> emission offsets for new and modified major sources.
- 3) Require NO<sub>x</sub> or SO<sub>2</sub> emission offsets for new and modified minor sources.
- 4) Increase the ratio of emission offsets required for new sources.
- 5) Require NO<sub>x</sub> or SO<sub>2</sub> controls on new minor sources (less than 100 tons).
- 6) Wood stove change-out program.
- 7) Require increased recovery efficiency at sulfur recovery plants.
- 8) Various emission reduction measures or dust suppressant for unpaved roads and/or parking lots.
- 9) Idling Restrictions.
- 10) Broader geographic applicability of existing measures.
- 11) One or more transportation control measures sufficient to achieve at least 0.5% reduction in actual area-wide precursor emissions. Transportation measures will be selected from the following, based upon the factors listed above, after consultation with affected local governments:
  - a) Trip reduction programs, including, but not limited to, employer-based transportation management plans, area wide rideshare programs, work schedule changes and telecommuting.
  - b) Transit improvements.
  - c) Traffic flow improvements.
  - d) Other new or innovative transportation measures not yet in widespread use that affect state and local governments, as deemed appropriate.

No contingency measure shall be implemented without providing the opportunity for full public participation during which the relative costs and benefits of individual measures, at the time they are under consideration, can be fully evaluated.

## **9.0 PUBLIC PARTICIPATION**

Indiana published notification for a public hearing and solicitation for public comment concerning the draft Redesignation Petition and Maintenance Plan on the IDEM Web site on February 9, 2011, with subsequent publication in the following newspapers on the following dates:

- 1) The Indianapolis Star, Indianapolis, Indiana (February 11, 2011).
- 2) The Evansville Courier, Evansville, Indiana (February 8, 2011).
- 3) The Herald, Jasper, Indiana (February 8, 2011).

A public hearing to receive comments concerning the redesignation request was conducted on March 15, 2011, in the Vectren Auditorium at the Evansville Main Campus of the Ivy Tech Community College, located in Evansville, Indiana. The public comment period closed on March 18, 2011. No formal comments were received. Appendix L includes a copy of the public

notice, public hearing script, certifications of newspaper publication of the public notice, and the official transcript from the public hearing.

## **10.0 CONCLUSIONS**

The Southwestern Indiana Area has attained the annual NAAQS for fine particles. This petition demonstrates that the Southwestern Indiana Area has complied with the applicable provisions of the CAA regarding redesignation of nonattainment areas for fine particles. IDEM has prepared a State Implementation and Maintenance Plan that meets the requirement of Section 110(a)(1) of the CAA.

Indiana has performed an analysis that shows the air quality improvements are due to permanent and enforceable measures and that additional significant regional NO<sub>x</sub> and SO<sub>2</sub> reductions following implementation of the Phase II NO<sub>x</sub> SIP Call rule and CAIR or its replacement rule will ensure continued compliance (maintenance) with the standard. Furthermore, emission projections indicate that NO<sub>x</sub> and SO<sub>2</sub> emissions will continue to decline, ensuring that the area continues to maintain compliance with the standard and provide for an increasing margin of safety. Based on this presentation, the Southwestern Indiana nonattainment area for fine particles meets the requirements for redesignation under the CAA (Section 107(d)(3)) and U.S. EPA guidance for fine particles.

Consistent with the authority granted to U.S. EPA, the State of Indiana requests that the Southwestern Indiana nonattainment area for fine particles be redesignated to attainment for the annual fine particles standard simultaneously with U.S. EPA approval of this Indiana State Implementation and Maintenance Plan and the provisions contained herein.



# **APPENDIX A-1**

**Air Quality System (AQS) and Indiana  
Department of Environmental Management  
(IDEM) Monitor Data Values for the  
Southwestern Indiana Area (2000-2009)**

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Monitoring Data for Southwestern Indiana Area					
SITE ID	COUNTY	SITE NAME	YEAR	Annual Average µg/m3	2007-2009 Average µg/m3
18-037-0004	Dubois	Jasper-Sport	2007	14.61	13.4 <sup>2</sup>
			2008	12.10	
			2009		
18-037-0005	Dubois	Jasper-Golf	2007	14.92	13.7 <sup>2</sup>
			2008	12.53	
			2009		
18-037-2001	Dubois	Jasper-Post Office	2007	14.26 <sup>E</sup>	13.2*
			2008	12.93	
			2009	12.49	
18-051-0012	Gibson	Oakland City	2007		11.2 <sup>2</sup>
			2008	11.33	
			2009	11.00	
18-147-0009	Spencer	Dale	2007	14.13	12.6
			2008	12.03	
			2009	11.77	
18-163-0006/20	Vanderburgh	Evansville-Civic Center/Post Office	2007	13.91	12.9
			2008	12.58	
			2009	12.32	
18-163-0012/21	Vanderburgh	Evansville-Mill Road/Buena Vista	2007	14.23	13.1
			2008	12.70	
			2009	12.28	
18-163-0016	Vanderburgh	Evansville-University of Evansville	2007	14.21	13.1
			2008	12.53	
			2009	12.49	

\*Incomplete data see Appendix G.

<sup>E</sup> Exceptional event data removed from calculations.

<sup>2</sup> Indicates design value is based on two years of data.

The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor and data for 2009 as well as the 2007-2009 design value have been combined.

The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor and data for 2009 as well as the 2007-2009 design value have been combined.

Site ID	County	Site Name	Yearly Annual Means									
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
18-037-0004	Dubois	Jasper-Sport							13.64	14.61	12.10	
18-037-0005	Dubois	Jasper-Golf							13.78	14.92	12.53	
18-037-2001	Dubois	Jasper-Post Office	17.16	16.54	16.34	15.72	14.42	16.92	13.54	14.26 <sup>E</sup>	12.93	12.49
18-051-0012	Gibson	Oakland City									11.33	11.00
18-147-0009	Spencer	Dale	16.32	14.52	14.06	14.63	12.16	16.76	12.78	14.13	12.03	11.77
18-163-0006	Vanderburgh	Evansville-Civic Center	16.17	15.45	15.36	14.93	13.23	16.49	13.72	13.91	12.58	
18-163-0006/20	Vanderburgh	Evansville-Combined Data From Civic Center and Post Office										12.32
18-163-0012	Vanderburgh	Evansville-Mill Road	16.17	15.15	15.27	15.27	13.46	16.29	14.05	14.23	12.70	
18-163-0012/21	Vanderburgh	Evansville-Combined Data From Mill Road and Buena Vista										12.28
18-163-0016	Vanderburgh	Evansville-University of Evansville	15.70	16.16	15.24	15.09	13.68	16.67	14.15	14.21	12.53	12.49
			Value above the annual PM2.5 standard.									

<sup>E</sup> Exceptional event data removed from calculations.

The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor and data for 2009 as well as the 2007-2009 design value have been combined.

The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor and data for 2009 as well as the 2007-2009 design value have been combined.

Site ID	County	Site Name	Three Year Design Values							
			00-02	01-03	02-04	03-05	04-06	05-07	06-08	07-09
18-037-0004	Dubois	Jasper-Sport					13.6	14.1	13.5	
18-037-0005	Dubois	Jasper-Golf					13.8	14.4	13.7	
18-037-2001	Dubois	Jasper-Post Office	16.7	16.2	15.5	15.7	15.0	14.9	13.6	13.2
18-051-0012	Gibson	Oakland City							11.3	11.2
18-147-0009	Spencer	Dale	15.0	14.4	13.6	14.5	13.9	14.6	13.0	12.6
18-163-0006	Vanderburgh	Evansville-Civic Center	15.7	15.2	14.5	14.9	14.5	14.7	13.4	
18-163-0006/20	Vanderburgh	Evansville-Combined Data From Civic Center and Post Office								12.9
18-163-0012	Vanderburgh	Evansville-Mill Road	15.5	15.2	14.7	15.0	14.6	14.9	13.7	
18-163-0012/21	Vanderburgh	Evansville-Combined Data From Mill Road and Buena Vista								13.1
18-163-0016	Vanderburgh	Evansville-University of Evansville	15.7	15.5	14.7	15.1	14.8	15.0	13.6	13.1
			Value above the annual PM <sub>2.5</sub> standard.							

Red Text Indicates Incomplete Data

Blue Text Indicates Design Value Based on One Year of Data

Green Text Indicates Design Value Based on Two Years of Data

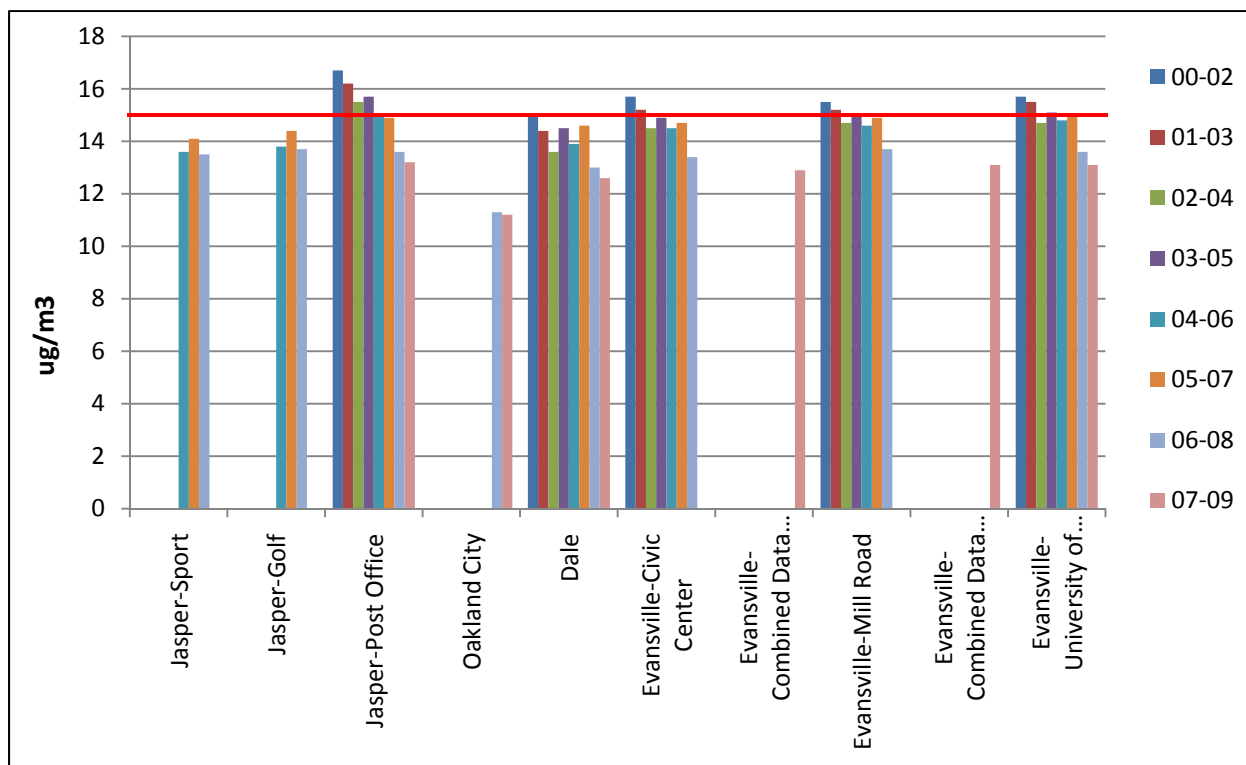
The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor and data for 2009 as well as the 2007-2009 design value have been combined.

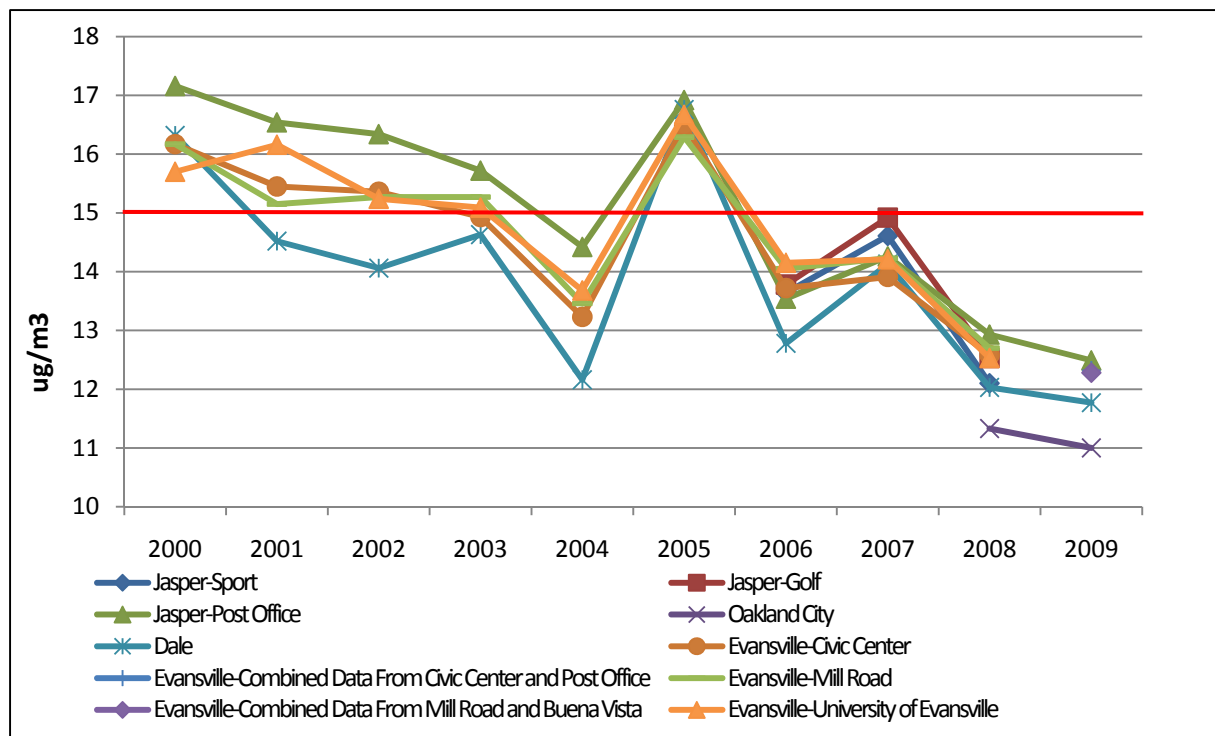
The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor and data for 2009 as well as the 2007-2009 design value have been combined.

## Design Values for the Southwestern Indiana Area for Fine Particles, 2000-2009



Red line represents Annual  $\text{PM}_{2.5}$  standard of 15  $\mu\text{g}/\text{m}^3$

## Southwestern Indiana Annual Fine Particles Trends, 2000-2009



Red line represents Annual  $\text{PM}_{2.5}$  standard of 15  $\mu\text{g}/\text{m}^3$

# **APPENDIX A-2**

**Air Quality System (AQS) and Indiana  
Department of Environmental Management  
(IDEM) Monitor Data Values for the  
Southwestern Indiana Area (2000-2010)**

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Monitoring Data for Southwestern Indiana Area					
SITE ID	COUNTY	SITE NAME	YEAR	Annual Average $\mu\text{g}/\text{m}^3$	2008-2010 Average $\mu\text{g}/\text{m}^3$
18-037-0004	Dubois	Jasper-Sport	2008	12.10	N/A
			2009		
			2010		
18-037-0005	Dubois	Jasper-Golf	2008	12.53	N/A
			2009		
			2010		
18-037-2001	Dubois	Jasper-Post Office	2008	12.93	13.0*
			2009	12.49	
			2010	13.65	
18-051-0012	Gibson	Oakland City	2008	11.33	11.5
			2009	11.00	
			2010	12.17	
18-147-0009	Spencer	Dale	2008	12.03	12.3
			2009	11.77	
			2010	12.99	
18-163-0006/20	Vanderburgh	Evansville-Civic Center/Post Office	2008	12.58	12.9
			2009	12.32	
			2010	13.40	
18-163-0012/21	Vanderburgh	Evansville-Mill Road/Buena Vista	2008	12.70	12.6
			2009	12.28	
			2010	12.83	
18-163-0016	Vanderburgh	Evansville-University of Evansville	2008	12.53	12.8
			2009	12.49	
			2010	13.40	

\*Incomplete data see Appendix G.

The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor in 2009 and data for 2009 as well as the 2008-2010 design value have been combined.

The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor in 2009 and data for 2009 as well as the 2008-2010 design value have been combined.

Site ID	County	Site Name	Yearly Annual Means										
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
18-037-0004	Dubois	Jasper-Sport							13.64	14.61	12.10		
18-037-0005	Dubois	Jasper-Golf							13.78	14.92	12.53		
18-037-2001	Dubois	Jasper-Post Office	17.16	16.54	16.34	15.72	14.42	16.92	13.54	14.26	12.93	12.49	13.65
18-051-0012	Gibson	Oakland City									11.33	11.00	12.17
18-147-0009	Spencer	Dale	16.32	14.52	14.06	14.63	12.16	16.76	12.78	14.13	12.03	11.77	12.99
18-163-0006	Vanderburgh	Evansville-Civic Center	16.17	15.45	15.36	14.93	13.23	16.49	13.72	13.91	12.58	11.98	
18-163-0006/20	Vanderburgh	Evansville-Combined Data From Civic Center and Post Office										12.32	
18-163-0020	Vanderburgh	Evansville-Post Office										12.28	13.57
18-163-0012	Vanderburgh	Evansville-Mill Road	16.17	15.15	15.27	15.27	13.46	16.29	14.05	14.23	12.70	12.16	
18-163-0012/21	Vanderburgh	Evansville-Combined Data From Mill Road and Buena Vista										12.28	
18-163-0021	Vanderburgh	Evansville-Buena Vista										12.41	12.83
18-163-0016	Vanderburgh	Evansville-University of Evansville	15.70	16.16	15.24	15.09	13.68	16.67	14.15	14.21	12.53	12.49	13.40

The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor in 2009 and data for 2009 as well as the 2008-2010 design value have been combined.

The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor in 2009 and data for 2009 as well as the 2008-2010 design value have been combined.

Site ID	County	Site Name	Three Year Design Values								
			00-02	01-03	02-04	03-05	04-06	05-07	06-08	07-09	08-10
18-037-0004	Dubois	Jasper-Sport					13.6	14.1	13.5		
18-037-0005	Dubois	Jasper-Golf					13.8	14.4	13.7		
18-037-2001	Dubois	Jasper-Post Office	16.7	16.2	15.5	15.7	15.0	14.9	13.6	13.2	13.0
18-051-0012	Gibson	Oakland City							11.3	11.2	11.5
18-147-0009	Spencer	Dale	15.0	14.4	13.6	14.5	13.9	14.6	13.0	12.6	12.3
18-163-0006	Vanderburgh	Evansville-Civic Center	15.7	15.2	14.5	14.9	14.5	14.7	13.4	12.8	
18-163-0006/20	Vanderburgh	Evansville-Combined Data From Civic Center and Post Office								12.9	12.8
18-163-0020	Vanderburgh	Evansville-Post Office								12.3	12.9
18-163-0012	Vanderburgh	Evansville-Mill Road	15.5	15.2	14.7	15.0	14.6	14.9	13.7	13.0	
18-163-0012/21	Vanderburgh	Evansville-Combined Data From Mill Road and Buena Vista								13.1	12.6
18-163-0021	Vanderburgh	Evansville-Buena Vista								12.4	12.6
18-163-0016	Vanderburgh	Evansville-University of Evansville	15.7	15.5	14.7	15.1	14.8	15.0	13.6	13.1	12.8
Value above the annual PM <sub>2.5</sub> standard.											

Red Text Indicates Incomplete Data

Blue Text Indicates Design Value Based on One Year of Data

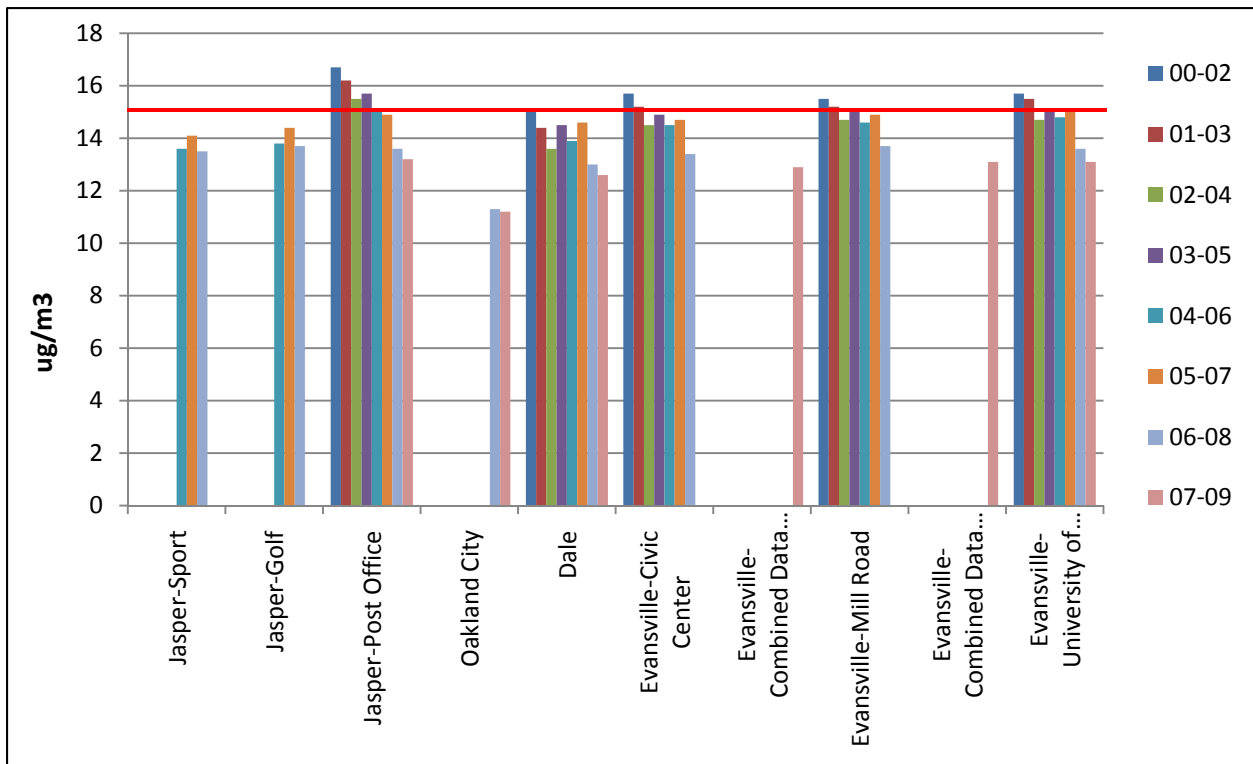
Green Text Indicates Design Value Based on Two Years of Data

The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008. The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor in 2009 and data for 2009 as well as the 2008-2010 design value have been combined.

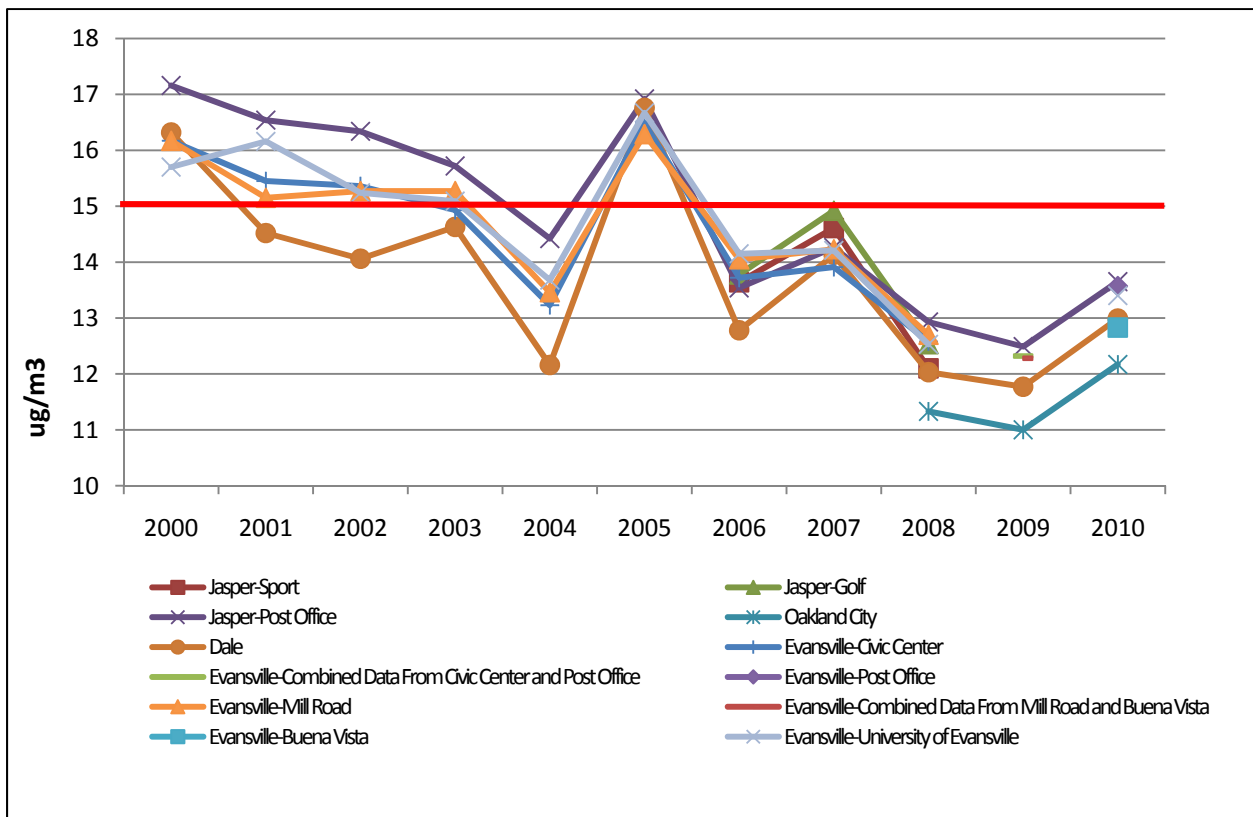
The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor in 2009 and data for 2009 as well as the 2008-2010 design value have been combined.

### Design Values for the Southwestern Indiana Area for Fine Particles, 2000-2010



Red line represents Annual  $\text{PM}_{2.5}$  standard of 15  $\mu\text{g}/\text{m}^3$

### Southwestern Indiana Annual Fine Particles Trends, 2000-2010



Red line represents Annual  $\text{PM}_{2.5}$  standard of 15  $\mu\text{g}/\text{m}^3$

# **APPENDIX B**

**Nitrogen Oxides (NO<sub>x</sub>), Sulfur Dioxide (SO<sub>2</sub>) and  
Direct Fine Particle (PM<sub>2.5</sub>) Point Source  
Emissions (2002, 2005 and 2008) for the  
Southwestern Indiana Area**

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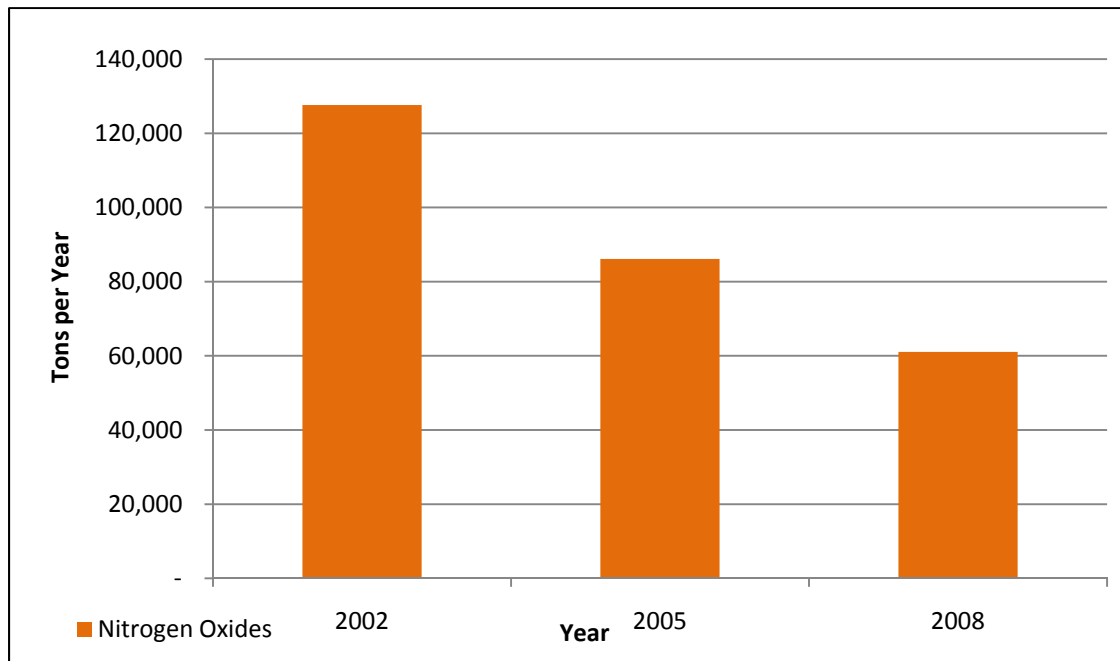
Southwestern Indiana Point Source Totals (Tons per Year)			
Year	NO <sub>x</sub>	SO <sub>2</sub>	Direct PM <sub>2.5</sub>
2002	127,628.35	349,633.56	2,359.71
2005	86,093.50	364,506.72	9,667.49
2008	61,039.37	233,137.18	12,641.37

2002- Southwestern Indiana Point Source Emissions (Tons per Year)						
County	EGU-NO <sub>x</sub>	NON-EGU- NO <sub>x</sub>	EGU-SO <sub>2</sub>	NON-EGU-SO <sub>2</sub>	EGU- Direct PM <sub>2.5</sub>	NON-EGU- Direct PM <sub>2.5</sub>
Dubois County	0.00	902.05	0.00	809.10	0.00	112.11
Gibson County	45,282.66	33.83	127,503.07	0.00	203.02	15.93
Pike County	19,951.55	4,071.69	47,178.98	18,056.75	188.61	47.00
Spencer County	34,143.66	11.50	51,551.31	0.09	61.81	18.56
Vanderburgh County	0.00	285.46	0.00	19.85	0.00	143.90
Warrick County	22,945.95	0.00	104,514.41	0.00	1,566.21	2.56
	NO <sub>x</sub>		SO <sub>2</sub>		Direct PM <sub>2.5</sub>	
<b>Grand Total</b>	<b>127,628.35</b>		<b>349,633.56</b>		<b>2,359.71</b>	

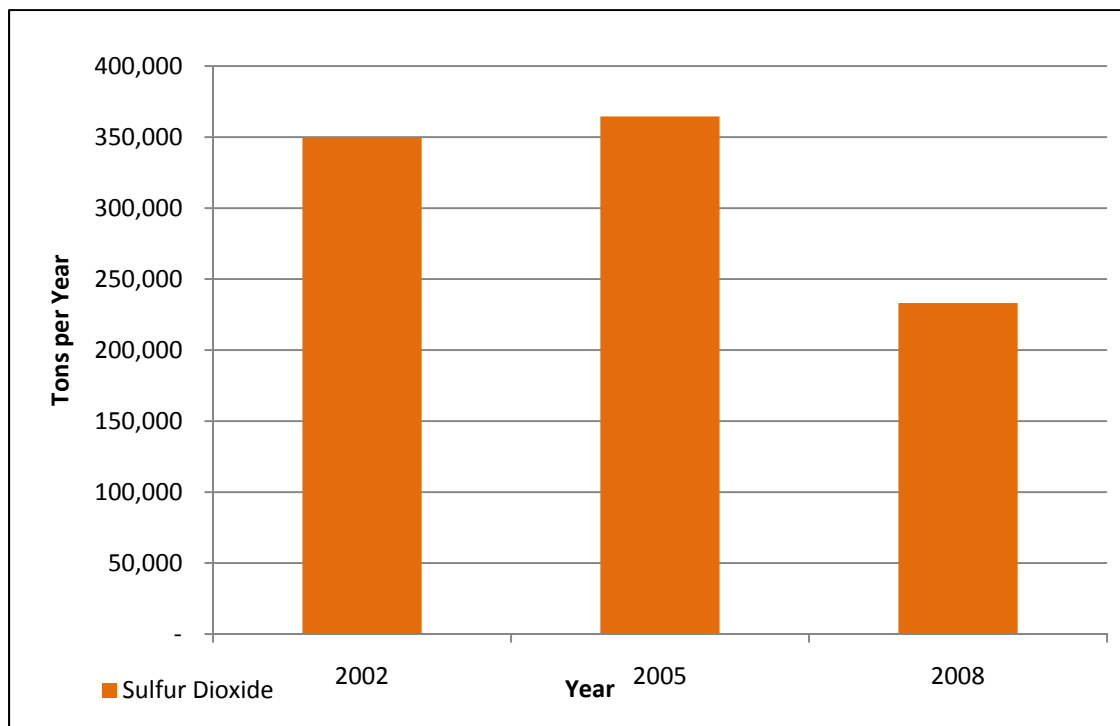
2005- Southwestern Indiana Point Source Emissions (Tons per Year)						
County	EGU-NO <sub>x</sub>	NON-EGU- NO <sub>x</sub>	EGU-SO <sub>2</sub>	NON-EGU-SO <sub>2</sub>	EGU- Direct PM <sub>2.5</sub>	NON-EGU- Direct PM <sub>2.5</sub>
Dubois County	87.51	216.54	301.77	9.80	30.46	93.63
Gibson County	30,167.80	41.13	153,320.18	0.32	3,625.58	20.47
Pike County	18,148.77	72.31	52,628.29	4.88	2,528.89	55.23
Spencer County	21,501.05	145.17	67,955.60	8.53	33.36	50.84
Vanderburgh County	25.41	83.94	0.43	6.53	0.33	60.72
Warrick County	15,389.00	214.87	86,615.50	3,654.89	2,021.47	1,146.51
	NO <sub>x</sub>		SO <sub>2</sub>		Direct PM <sub>2.5</sub>	
<b>Grand Total</b>	<b>86,093.50</b>		<b>364,506.72</b>		<b>9,667.49</b>	

2008- Southwestern Indiana Point Source Emissions (Tons per Year)						
County	EGU-NO <sub>x</sub>	NON-EGU- NO <sub>x</sub>	EGU-SO <sub>2</sub>	NON-EGU-SO <sub>2</sub>	EGU- Direct PM <sub>2.5</sub>	NON-EGU- Direct PM <sub>2.5</sub>
Dubois County	333.93	216.72	3,244.32	9.88	30.52	79.48
Gibson County	12,674.10	42.77	69,674.35	0.33	3,625.20	6.69
Pike County	14,908.12	72.25	36,952.22	4.87	2,528.02	14.58
Spencer County	22,601.53	129.70	69,598.53	2.91	3,157.90	47.58
Vanderburgh County	10.97	81.12	0.11	6.52	0.08	65.95
Warrick County	9,750.15	218.01	50,069.10	3,574.04	2,021.27	1,064.10
	NO <sub>x</sub>		SO <sub>2</sub>		Direct PM <sub>2.5</sub>	
<b>Grand Total</b>	<b>61,039.37</b>		<b>233,137.18</b>		<b>12,641.37</b>	

### Southwestern Indiana NO<sub>x</sub> Point Source Emissions Trend, 2002, 2005 and 2008

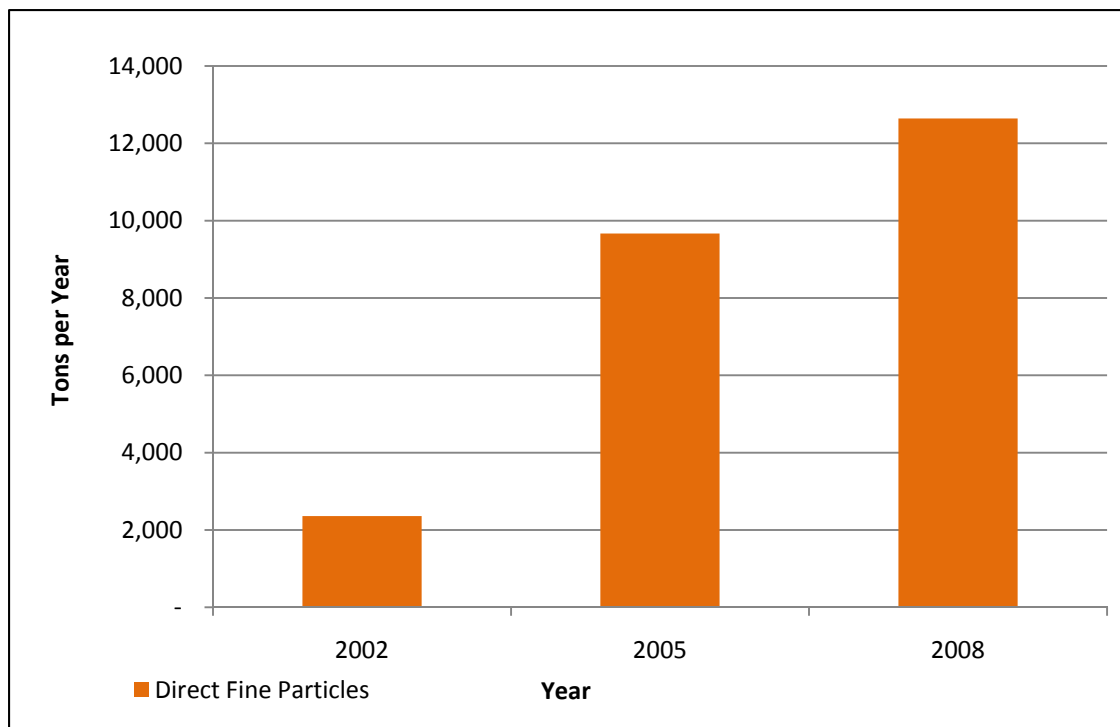


### Southwestern Indiana SO<sub>2</sub> Point Source Emissions Trend, 2002, 2005 and 2008





**Southwestern Indiana Direct PM<sub>2.5</sub>  
Point Source Emissions Trend, 2002, 2005 and 2008**



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# **APPENDIX C**

**Nitrogen Oxides (NO<sub>x</sub>), Sulfur Dioxide (SO<sub>2</sub>) and  
Direct Fine Particle (PM<sub>2.5</sub>) (2002, 2005 and 2008)  
Emission Trends, All Sources, Southwestern  
Indiana Area**

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### 2002 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	26.30	52.50	446.63	0.00	112.11	637.54
	GIBSON COUNTY, IN	31.01	84.73	160.62	203.02	15.93	495.31
	PIKE COUNTY, IN	11.08	23.68	49.74	188.61	47.00	320.11
	SPENCER COUNTY, IN	23.41	78.57	136.46	61.81	18.56	318.81
	VANDEBURGH COUNTY, IN	69.19	137.14	530.81	0.00	143.90	881.04
	WARRICK COUNTY, IN	37.47	42.43	135.74	1,566.21	2.56	1,784.41
		198.46	419.05	1,460.00	2,019.65	340.06	
GRAND TOTAL							4,437.22

### 2002 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	69.64	66.10	1,220.41	0.00	809.10	2,165.25
	GIBSON COUNTY, IN	69.29	108.95	433.37	127,503.07	0.00	128,114.68
	PIKE COUNTY, IN	26.97	26.99	31.34	47,178.98	18,056.75	65,321.03
	SPENCER COUNTY, IN	51.90	129.15	188.50	51,551.31	0.09	51,920.95
	VANDEBURGH COUNTY, IN	141.53	210.71	1,596.00	0.00	19.85	1,968.09
	WARRICK COUNTY, IN	61.69	46.65	269.58	104,514.41	0.00	104,892.33
		421.02	588.55	3,739.20	330,747.77	18,885.79	
GRAND TOTAL							354,382.33

### 2002 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	1,514.30	870.98	422.16	0.00	902.05	3,709.49
	GIBSON COUNTY, IN	1,743.22	1,192.81	179.10	45,282.66	33.83	48,431.62
	PIKE COUNTY, IN	713.51	296.11	31.10	19,951.55	4,071.69	25,063.96
	SPENCER COUNTY, IN	1,538.39	1,224.97	93.66	34,143.66	11.50	37,012.18
	VANDEBURGH COUNTY, IN	3,850.88	2,415.19	869.58	0.00	285.46	7,421.11
	WARRICK COUNTY, IN	2,076.22	494.18	157.20	22,945.95	0.00	25,673.55
		11,436.52	6,494.24	1,752.80	122,323.82	5,304.53	
GRAND TOTAL							147,311.91

### 2005 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	21.06	49.60	8.50	30.46	93.63	203.25
	GIBSON COUNTY, IN	2.66	72.79	7.49	3,625.58	20.47	3,728.99
	PIKE COUNTY, IN	3.02	19.63	3.60	2,528.89	55.23	2,610.37
	SPENCER COUNTY, IN	3.10	39.17	3.71	33.36	50.84	130.18
	VANDEBURGH COUNTY, IN	57.30	116.66	8.14	0.33	60.72	243.15
	WARRICK COUNTY, IN	30.52	39.21	6.00	2,021.47	1,146.51	3,243.71
		117.66	337.06	37.44	8,240.09	1,427.40	
GRAND TOTAL							10,159.65

### 2005 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	28.07	74.67	171.87	301.77	9.80	586.18
	GIBSON COUNTY, IN	35.23	112.97	108.21	153,320.18	0.32	153,576.91
	PIKE COUNTY, IN	12.28	26.14	21.29	52,628.29	4.88	52,692.88
	SPENCER COUNTY, IN	25.83	70.27	36.65	67,955.60	8.53	68,096.88
	VANDEBURGH COUNTY, IN	94.31	195.18	264.88	0.43	6.53	561.33
	WARRICK COUNTY, IN	41.04	57.42	71.08	86,615.50	3,654.89	90,439.93
		236.76	536.65	673.98	360,821.77	3,684.95	
GRAND TOTAL							365,954.11

### 2005 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	1,203.96	848.55	360.71	87.51	216.54	2,717.27
	GIBSON COUNTY, IN	132.36	1,162.90	220.02	30,167.80	41.13	31,724.21
	PIKE COUNTY, IN	178.78	255.77	38.57	18,148.77	72.31	18,694.20
	SPENCER COUNTY, IN	177.98	727.76	88.24	21,501.05	145.17	22,640.20
	VANDEBURGH COUNTY, IN	3,150.98	2,140.34	746.06	25.41	83.94	6,146.73
	WARRICK COUNTY, IN	1,683.98	540.52	170.68	15,389.00	214.87	17,999.05
		6,528.04	5,675.84	1,624.28	85,319.54	773.96	
GRAND TOTAL							99,921.66

### 2008 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	15.84	40.28	8.49	30.52	79.48	174.61
	GIBSON COUNTY, IN	2.09	58.39	7.43	3,625.20	6.69	3,699.80
	PIKE COUNTY, IN	2.25	15.99	3.56	2,528.02	14.58	2,564.40
	SPENCER COUNTY, IN	2.43	31.73	3.68	3,157.90	47.58	3,243.32
	VANDEBURGH COUNTY, IN	45.42	95.93	8.13	0.08	65.95	215.51
	WARRICK COUNTY, IN	23.57	32.87	5.93	2,021.27	1,064.10	3,147.74
		<b>91.60</b>	<b>275.19</b>	<b>37.22</b>	<b>11,362.99</b>	<b>1,278.38</b>	
GRAND TOTAL							13,045.38

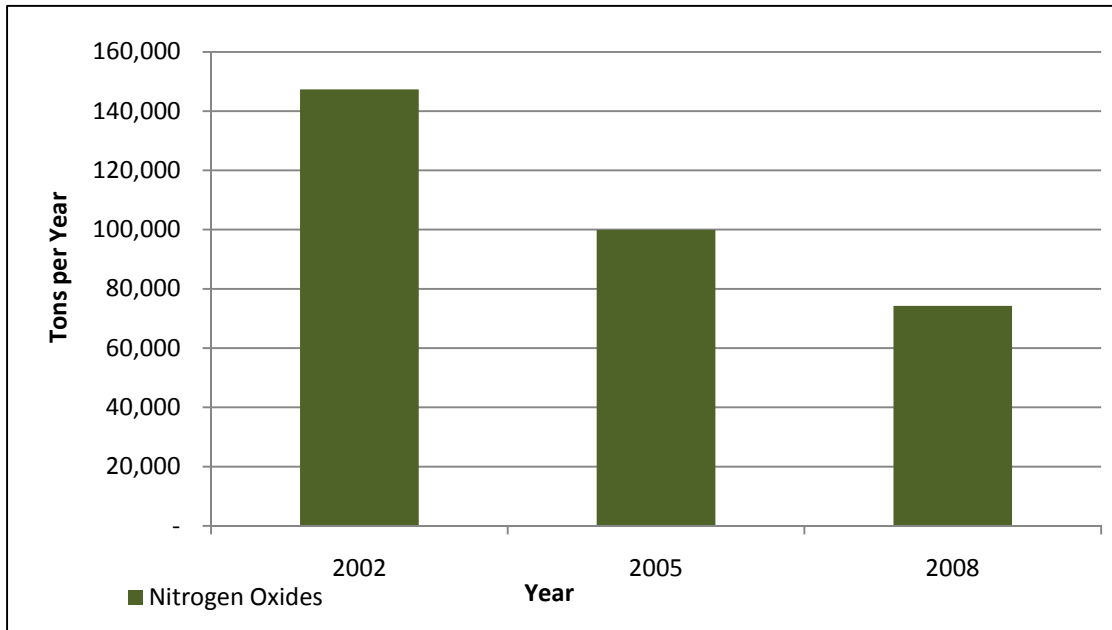
### 2008 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	5.32	34.63	174.06	3,244.32	9.88	3,468.21
	GIBSON COUNTY, IN	7.07	62.60	109.54	69,674.35	0.33	69,853.89
	PIKE COUNTY, IN	2.54	13.06	22.81	36,952.22	4.87	36,995.50
	SPENCER COUNTY, IN	4.38	33.41	38.22	69,598.53	2.91	69,677.45
	VANDEBURGH COUNTY, IN	17.24	95.11	266.71	0.11	6.52	385.69
	WARRICK COUNTY, IN	6.97	23.12	72.83	50,069.10	3,574.04	53,746.06
		<b>43.52</b>	<b>261.93</b>	<b>684.17</b>	<b>229,538.63</b>	<b>3,598.55</b>	
GRAND TOTAL							234,126.80

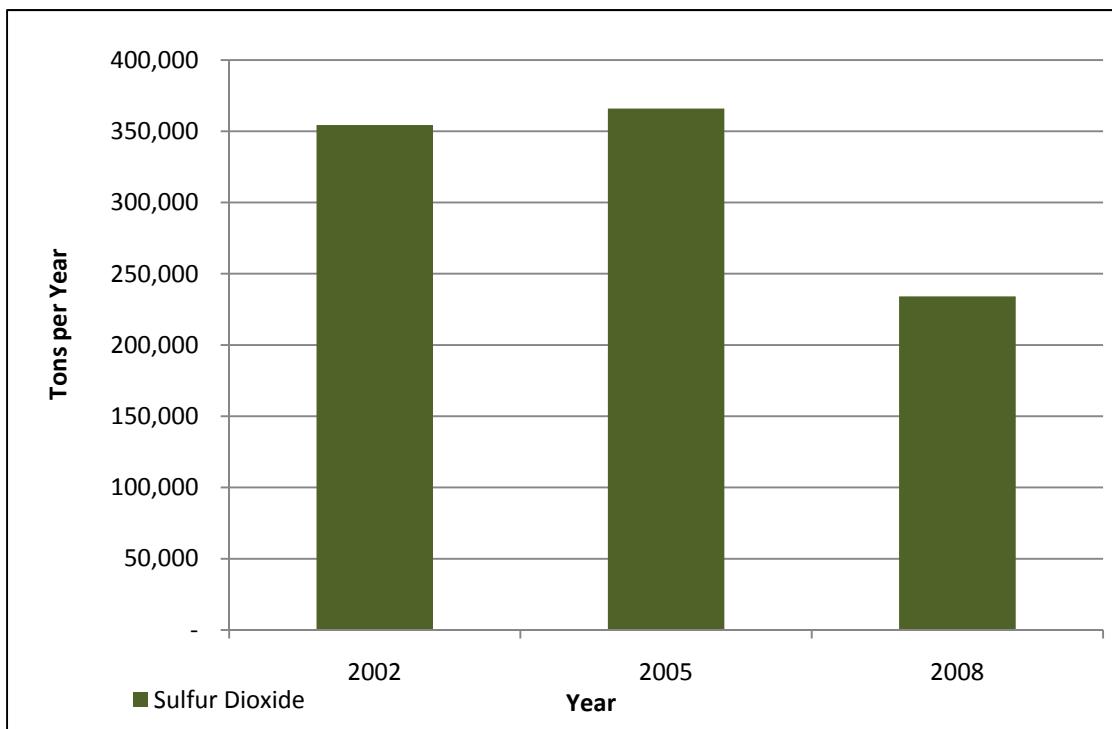
### 2008 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	897.56	688.64	365.48	333.93	216.72	2,502.33
	GIBSON COUNTY, IN	104.41	931.59	2,223.11	12,674.10	42.77	15,975.98
	PIKE COUNTY, IN	131.32	217.29	40.61	14,908.12	72.25	15,369.59
	SPENCER COUNTY, IN	141.95	586.16	90.66	22,601.53	129.70	23,550.00
	VANDEBURGH COUNTY, IN	2,451.09	1,699.60	754.77	10.97	81.12	4,997.55
	WARRICK COUNTY, IN	1,291.73	457.58	173.96	9,750.15	218.01	11,891.43
		<b>5,018.06</b>	<b>4,580.86</b>	<b>3,648.59</b>	<b>60,278.80</b>	<b>760.57</b>	
GRAND TOTAL							74,286.88

**NO<sub>x</sub> Emissions Trend,  
All Sources, Southwestern Indiana, 2002, 2005 and 2008**

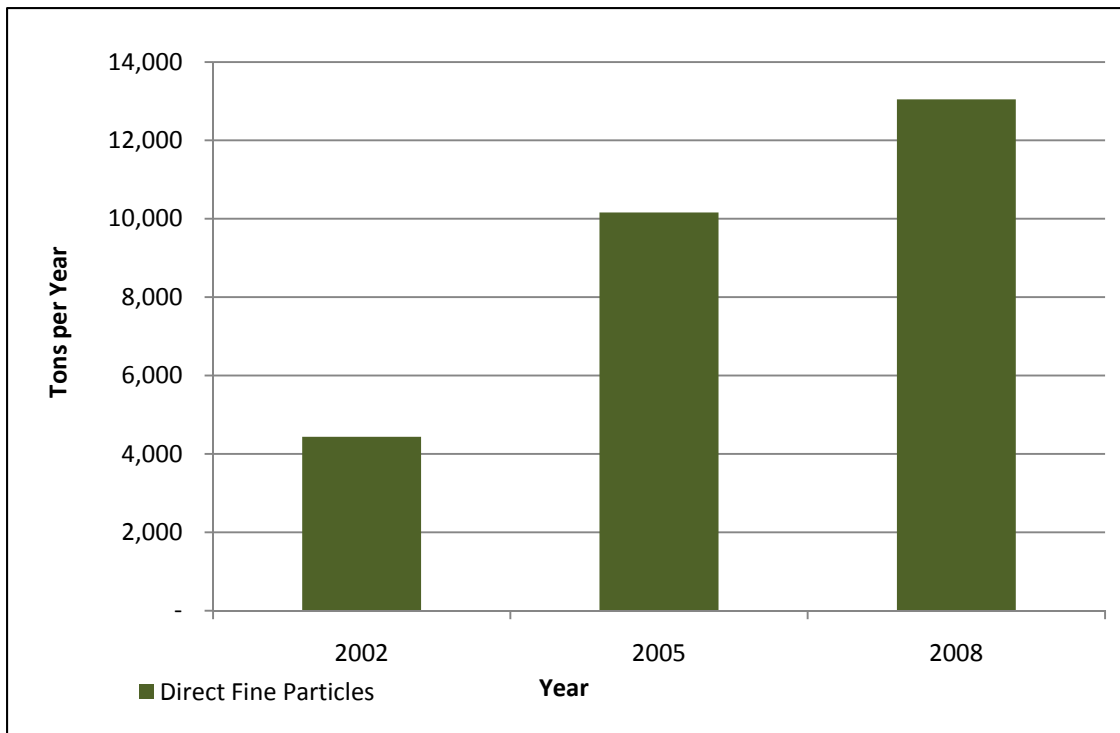


**SO<sub>2</sub> Emissions Trend,  
All Sources, Southwestern Indiana, 2002, 2005 and 2008**





**Direct PM<sub>2.5</sub> Emissions Trend,  
All Sources, Southwestern Indiana, 2002, 2005 and 2008**



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# **APPENDIX D**

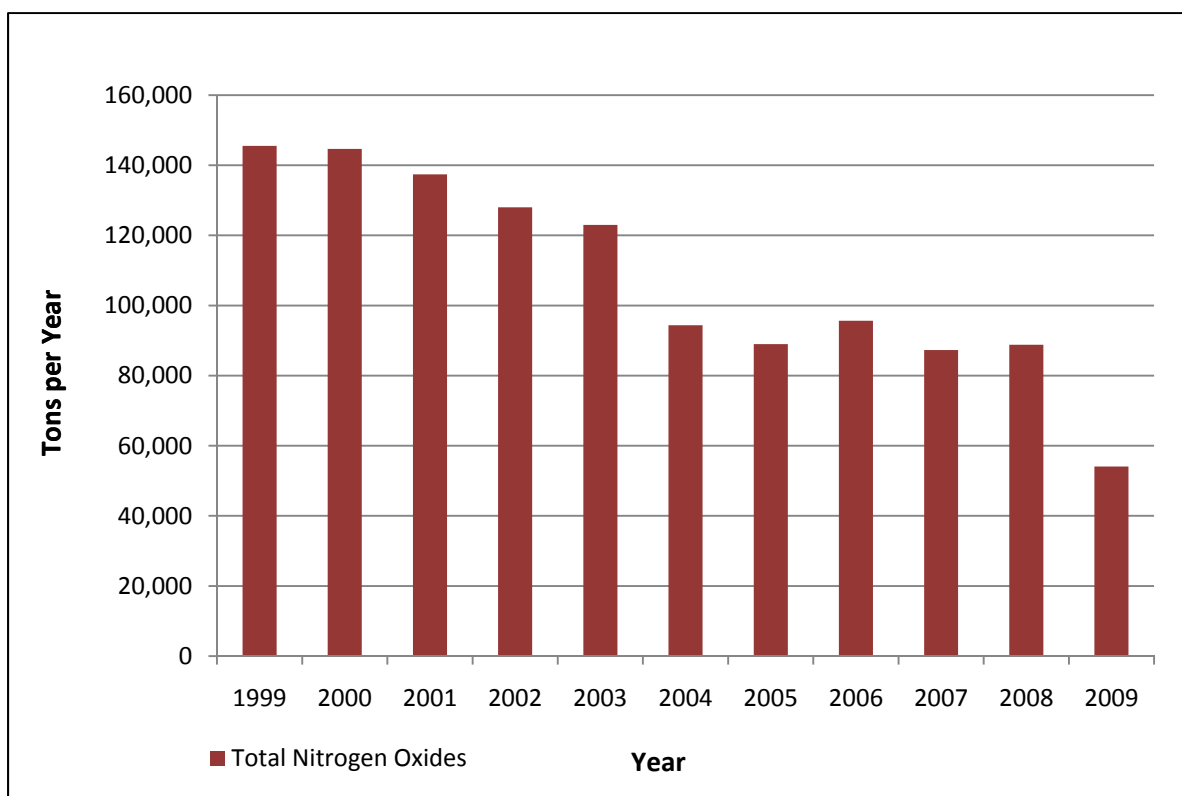
## **Nitrogen Oxide (NO<sub>x</sub>) and Sulfur Dioxide (SO<sub>2</sub>) Emissions from Electric Generating Units, Southwestern Indiana Area**

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### Southwestern Indiana NO<sub>x</sub> Emissions from EGUs

Year	Total Nitrogen Oxides Emissions, tons/year
1999	145,539.0
2000	144,669.8
2001	137,430.8
2002	128,010.7
2003	122,978.7
2004	94,379.5
2005	88,986.1
2006	95,647.1
2007	87,284.2
2008	88,823.8
2009	54,067.6

### Southwestern Indiana NO<sub>x</sub> Emissions from EGUs



**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
1999**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	8,215.8
Alcoa Allowance Management Inc	18,391.4
F B Culley Generating Station	7,670.0
Frank E Ratts	3,668.5
Gibson	49,450.5
Petersburg	20,196.7
Rockport	37,946.1
<b>Total</b>	<b>145,539.0</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2000**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	6,864.4
Alcoa Allowance Management Inc	18,150.9
F B Culley Generating Station	7,826.6
Frank E Ratts	4,522.4
Gibson	47,817.9
Petersburg	22,493.2
Rockport	36,994.4
<b>Total</b>	<b>144,669.8</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2001**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	7,251.6
Alcoa Allowance Management Inc	17,227.7
F B Culley Generating Station	6,542.0
Frank E Ratts	4,631.0
Gibson	44,059.8
Petersburg	22,721.8
Rockport	34,996.9
<b>Total</b>	<b>137,430.8</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2002**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	7,399.7
Alcoa Allowance Management Inc	17,550.1
F B Culley Generating Station	6,318.4
Frank E Ratts	4,012.3
Gibson	38,241.0
Petersburg	20,246.5
Rockport	34,242.7
<b>Total</b>	<b>128,010.7</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2003**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	6,772.7
Alcoa Allowance Management Inc	15,721.0
F B Culley Generating Station	4,703.8
Frank E Ratts	3,723.2
Gibson	38,416.4
Petersburg	18,268.0
Rockport	35,373.6
<b>Total</b>	<b>122,978.7</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2004**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	5,318.8
Alcoa Allowance Management Inc	11,872.9
F B Culley Generating Station	3,337.4
Frank E Ratts	3,801.1
Gibson	36,850.2
Petersburg	14,858.3
Rockport	18,340.8
<b>Total</b>	<b>94,379.5</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2005**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	5,103.0
Alcoa Allowance Management Inc	10,879.3
F B Culley Generating Station	3,371.3
Frank E Ratts	2,705.5
Gibson	30,283.8
Petersburg	15,520.9
Rockport	21,122.3
<b>Total</b>	<b>88,986.1</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2006**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	4,882.7
Alcoa Allowance Management Inc	10,363.7
F B Culley Generating Station	3,212.5
Frank E Ratts	4,119.0
Gibson	28,532.8
Petersburg	16,412.7
Rockport	28,123.7
<b>Total</b>	<b>95,647.1</b>

**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2007**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	4,755.9
Alcoa Allowance Management Inc	9,414.2
F B Culley Generating Station	2,441.5
Frank E Ratts	4,829.2
Gibson	30,022.2
Petersburg	16,529.5
Rockport	19,291.7
<b>Total</b>	<b>87,284.2</b>



**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2008**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	5,391.9
Alcoa Allowance Management Inc	9,166.0
F B Culley Generating Station	2,474.6
Frank E Ratts	3,484.1
Gibson	29,549.3
Petersburg	15,798.6
Rockport	22,959.3
<b>Total</b>	<b>88,823.8</b>

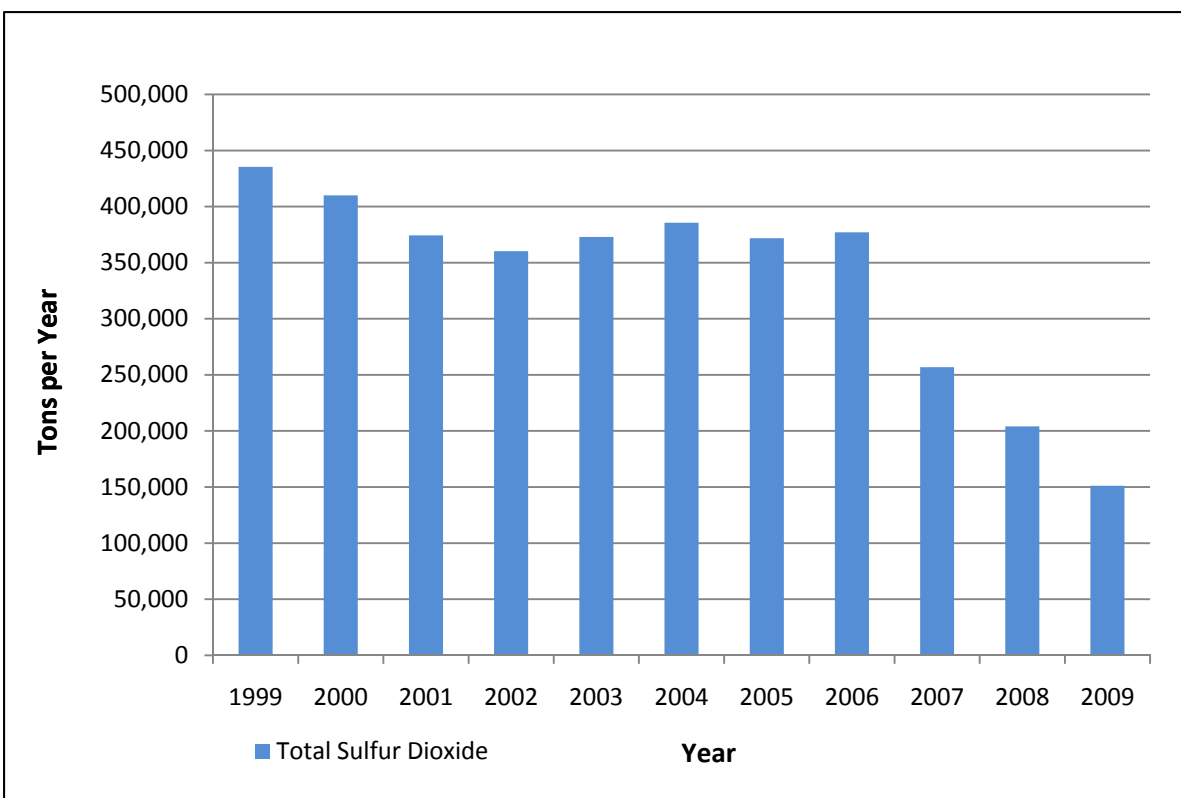
**Southwestern Indiana Entire Nonattainment Area NO<sub>x</sub> Emissions from EGUs  
2009**

<b>Facility</b>	<b>Nitrogen Oxides Emissions (Tons/Year)</b>
A B Brown Generating Station	1,720.9
Alcoa Allowance Management Inc	9,912.4
F B Culley Generating Station	1,021.4
Frank E Ratts	2,424.1
Gibson	9,568.6
Petersburg	9,658.0
Rockport	19,762.2
<b>Total</b>	<b>54,067.6</b>

### Southwestern Indiana SO<sub>2</sub> Emissions from EGUs

Year	Total Sulfur Dioxide Emissions, tons/year
1999	435,359.1
2000	409,986.3
2001	374,391.4
2002	360,294.1
2003	372,978.1
2004	385,681.7
2005	371,728.4
2006	377,035.8
2007	256,811.4
2008	204,019.5
2009	151,125.7

### Southwestern Indiana SO<sub>2</sub> Emissions from EGUs



**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
1999**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	11,253.0
Alcoa Allowance Management Inc	119,655.4
F B Culley Generating Station	11,329.3
Frank E Ratts	17,180.2
Gibson	158,900.9
Petersburg	50,195.8
Rockport	66,844.5
<b>Total</b>	<b>435,359.1</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2000**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	6,863.1
Alcoa Allowance Management Inc	91,386.5
F B Culley Generating Station	11,737.3
Frank E Ratts	23,050.2
Gibson	171,504.7
Petersburg	42,055.7
Rockport	63,388.8
<b>Total</b>	<b>409,986.3</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2001**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	7,592.5
Alcoa Allowance Management Inc	87,885.2
F B Culley Generating Station	9,795.1
Frank E Ratts	21,423.2
Gibson	148,330.7
Petersburg	41,999.5
Rockport	57,365.2
<b>Total</b>	<b>374,391.4</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2002**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	8,638.5
Alcoa Allowance Management Inc	98,777.4
F B Culley Generating Station	7,118.8
Frank E Ratts	18,055.0
Gibson	127,356.5
Petersburg	47,152.1
Rockport	53,195.8
<b>Total</b>	<b>360,294.1</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2003**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	8,218.9
Alcoa Allowance Management Inc	108,676.8
F B Culley Generating Station	5,846.5
Frank E Ratts	17,602.9
Gibson	136,536.3
Petersburg	42,535.6
Rockport	53,561.1
<b>Total</b>	<b>372,978.1</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2004**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	8,234.5
Alcoa Allowance Management Inc	106,124.3
F B Culley Generating Station	5,586.1
Frank E Ratts	18,251.2
Gibson	164,121.2
Petersburg	38,738.4
Rockport	44,626.0
<b>Total</b>	<b>385,681.7</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2005**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	9,038.9
Alcoa Allowance Management Inc	82,961.6
F B Culley Generating Station	5,511.4
Frank E Ratts	15,123.8
Gibson	154,234.6
Petersburg	37,652.9
Rockport	67,205.2
<b>Total</b>	<b>371,728.4</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2006**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	8,956.2
Alcoa Allowance Management Inc	72,858.6
F B Culley Generating Station	5,997.8
Frank E Ratts	21,638.3
Gibson	155,056.8
Petersburg	28,984.7
Rockport	83,543.4
<b>Total</b>	<b>377,035.8</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2007**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	8,743.7
Alcoa Allowance Management Inc	78,824.6
F B Culley Generating Station	3,676.8
Frank E Ratts	21,286.4
Gibson	72,947.0
Petersburg	22,499.7
Rockport	48,833.2
<b>Total</b>	<b>256,811.4</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2008**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	10,001.7
Alcoa Allowance Management Inc	59,731.1
F B Culley Generating Station	3,943.2
Frank E Ratts	27,334.3
Gibson	20,526.7
Petersburg	22,431.1
Rockport	60,051.4
<b>Total</b>	<b>204,019.5</b>

**Southwestern Indiana Entire Nonattainment Area SO<sub>2</sub> Emissions from EGUs  
2009**

<b>Facility</b>	<b>Sulfur Dioxide Emissions (Tons/Year)</b>
A B Brown Generating Station	5,778.0
Alcoa Allowance Management Inc	3,482.2
F B Culley Generating Station	2,050.9
Frank E Ratts	23,947.6
Gibson	20,942.0
Petersburg	40,129.1
Rockport	54,795.9
<b>Total</b>	<b>151,125.7</b>

# **APPENDIX E**

**2005 Base Year Emission Inventory, 2008  
Secondary Validation Year Emission Inventory  
and 2015, 2020 and 2022 Projected Emission  
Inventory for Nitrogen Oxides (NO<sub>x</sub>), Sulfur  
Dioxide (SO<sub>2</sub>) and Direct Fine Particles (PM<sub>2.5</sub>) in  
Southwestern Indiana Area**

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## 2005 Base Year Emissions Inventory

### 2005 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	21.06	49.60	8.50	30.46	93.63	203.25
	GIBSON COUNTY, IN	2.66	72.79	7.49	3,625.58	20.47	3,728.99
	PIKE COUNTY, IN	3.02	19.63	3.60	2,528.89	55.23	2,610.37
	SPENCER COUNTY, IN	3.10	39.17	3.71	33.36	50.84	130.18
	VANDERBURGH COUNTY, IN	57.30	116.66	8.14	0.33	60.72	243.15
	WARRICK COUNTY, IN	30.52	39.21	6.00	2,021.47	1,146.51	3,243.71
		117.66	337.06	37.44	8,240.09	1,427.40	
GRAND TOTAL							10,159.65

### 2005 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	28.07	74.67	171.87	301.77	9.80	586.18
	GIBSON COUNTY, IN	35.23	112.97	108.21	153,320.18	0.32	153,576.91
	PIKE COUNTY, IN	12.28	26.14	21.29	52,628.29	4.88	52,692.88
	SPENCER COUNTY, IN	25.83	70.27	36.65	67,955.60	8.53	68,096.88
	VANDERBURGH COUNTY, IN	94.31	195.18	264.88	0.43	6.53	561.33
	WARRICK COUNTY, IN	41.04	57.42	71.08	86,615.50	3,654.89	90,439.93
		236.76	536.65	673.98	360,821.77	3,684.95	
GRAND TOTAL							365,954.11

### 2005 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	1,203.96	848.55	360.71	87.51	216.54	2,717.27
	GIBSON COUNTY, IN	132.36	1,162.90	220.02	30,167.80	41.13	31,724.21
	PIKE COUNTY, IN	178.78	255.77	38.57	18,148.77	72.31	18,694.20
	SPENCER COUNTY, IN	177.98	727.76	88.24	21,501.05	145.17	22,640.20
	VANDERBURGH COUNTY, IN	3,150.98	2,140.34	746.06	25.41	83.94	6,146.73
	WARRICK COUNTY, IN	1,683.98	540.52	170.68	15,389.00	214.87	17,999.05
		6,528.04	5,675.84	1,624.28	85,319.54	773.96	
GRAND TOTAL							99,921.66

## 2008 Secondary Validation Year Emissions Inventory

### 2008 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	15.84	40.28	8.49	30.52	79.48	174.61
	GIBSON COUNTY, IN	2.09	58.39	7.43	3,625.20	6.69	3,699.80
	PIKE COUNTY, IN	2.25	15.99	3.56	2,528.02	14.58	2,564.40
	SPENCER COUNTY, IN	2.43	31.73	3.68	3,157.90	47.58	3,243.32
	VANDEBURGH COUNTY, IN	45.42	95.93	8.13	0.08	65.95	215.51
	WARRICK COUNTY, IN	23.57	32.87	5.93	2,021.27	1,064.10	3,147.74
		91.60	275.19	37.22	11,362.99	1,278.38	
GRAND TOTAL							13,045.38

### 2008 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	5.32	34.63	174.06	3,244.32	9.88	3,468.21
	GIBSON COUNTY, IN	7.07	62.60	109.54	69,674.35	0.33	69,853.89
	PIKE COUNTY, IN	2.54	13.06	22.81	36,952.22	4.87	36,995.50
	SPENCER COUNTY, IN	4.38	33.41	38.22	69,598.53	2.91	69,677.45
	VANDEBURGH COUNTY, IN	17.24	95.11	266.71	0.11	6.52	385.69
	WARRICK COUNTY, IN	6.97	23.12	72.83	50,069.10	3,574.04	53,746.06
		43.52	261.93	684.17	229,538.63	3,598.55	
GRAND TOTAL							234,126.80

### 2008 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	897.56	688.64	365.48	333.93	216.72	2,502.33
	GIBSON COUNTY, IN	104.41	931.59	2,223.11	12,674.10	42.77	15,975.98
	PIKE COUNTY, IN	131.32	217.29	40.61	14,908.12	72.25	15,369.59
	SPENCER COUNTY, IN	141.95	586.16	90.66	22,601.53	129.70	23,550.00
	VANDEBURGH COUNTY, IN	2,451.09	1,699.60	754.77	10.97	81.12	4,997.55
	WARRICK COUNTY, IN	1,291.73	457.58	173.96	9,750.15	218.01	11,891.43
		5,018.06	4,580.86	3,648.59	60,278.80	760.57	
GRAND TOTAL							74,286.88

## 2015 Projected Emissions

### 2015 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	8.86	25.03	8.14	30.52	72.79	145.34
	GIBSON COUNTY, IN	1.22	37.25	7.06	3,625.08	2.07	3,672.68
	PIKE COUNTY, IN	2.14	10.66	3.38	2,527.73	1.03	2,544.94
	SPENCER COUNTY, IN	1.19	20.38	3.52	4,199.42	45.32	4,269.83
	VANDEBURGH COUNTY, IN	28.47	65.34	7.84	0.00	66.67	168.32
	WARRICK COUNTY, IN	12.45	21.25	5.60	2,021.20	1,030.55	3,091.05
		54.33	179.91	35.54	12,403.95	1,218.43	
GRAND TOTAL							13,892.16

### 2015 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	4.71	15.73	168.89	4,225.17	9.92	4,424.42
	GIBSON COUNTY, IN	0.63	39.92	105.93	41,792.40	0.33	41,939.21
	PIKE COUNTY, IN	1.03	6.96	22.17	31,726.86	4.86	31,761.88
	SPENCER COUNTY, IN	0.59	10.29	37.41	70,146.18	1.01	49.30
	VANDEBURGH COUNTY, IN	15.29	42.06	259.60	0.00	6.51	323.46
	WARRICK COUNTY, IN	5.92	4.86	70.82	37,886.97	1,363.09	39,331.66
		28.17	119.82	664.82	115,631.40	1,385.72	
GRAND TOTAL							117,829.93

### 2015 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	420.57	442.76	358.45	415.83	216.69	1,854.30
	GIBSON COUNTY, IN	53.42	652.32	218.85	6,842.87	42.97	7,810.43
	PIKE COUNTY, IN	143.71	165.63	40.44	13,827.91	72.24	14,249.93
	SPENCER COUNTY, IN	62.41	413.45	89.56	22,968.36	122.00	23,655.78
	VANDEBURGH COUNTY, IN	1,238.85	1,125.61	741.07	6.16	80.17	3,191.86
	WARRICK COUNTY, IN	584.23	307.81	171.22	7,870.54	201.08	9,134.88
		2,503.19	3,107.58	1,619.59	51,931.67	735.15	
GRAND TOTAL							59,897.18

## 2020 Projected Emissions

### 2020 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	7.87	18.96	7.97	30.51	71.80	137.11
	GIBSON COUNTY, IN	2.35	29.08	6.88	3,625.08	2.06	3,665.45
	PIKE COUNTY, IN	2.07	8.60	3.29	2,527.73	1.02	2,542.71
	SPENCER COUNTY, IN	1.05	15.95	3.44	4,199.42	44.74	4,264.60
	VANDEBURGH COUNTY, IN	27.14	53.50	7.70	0.00	66.16	154.50
	WARRICK COUNTY, IN	12.03	16.50	5.44	2,021.20	1,027.51	3,082.68
		<b>52.51</b>	<b>142.59</b>	<b>34.72</b>	<b>12,403.94</b>	<b>1,213.29</b>	
GRAND TOTAL							13,847.05

### 2020 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	5.18	12.96	165.95	2,047.00	9.93	2,241.02
	GIBSON COUNTY, IN	0.54	36.98	103.90	24,687.00	0.33	24,828.75
	PIKE COUNTY, IN	2.34	6.09	21.60	14,782.00	4.86	14,816.89
	SPENCER COUNTY, IN	0.40	4.87	36.74	42,523.00	1.00	42,566.01
	VANDEBURGH COUNTY, IN	16.29	32.21	255.75	0.00	6.51	310.76
	WARRICK COUNTY, IN	6.20	1.44	68.52	30,478.00	271.10	30,825.26
		<b>30.95</b>	<b>94.55</b>	<b>652.46</b>	<b>114,517.00</b>	<b>293.73</b>	
GRAND TOTAL							115,588.69

### 2020 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	411.58	346.48	354.14	415.71	216.65	1,744.56
	GIBSON COUNTY, IN	55.23	551.23	216.21	6,842.87	42.79	7,708.33
	PIKE COUNTY, IN	137.24	146.22	40.01	13,827.91	72.24	14,223.62
	SPENCER COUNTY, IN	58.86	350.71	88.61	22,968.36	120.73	23,587.27
	VANDEBURGH COUNTY, IN	1,237.00	912.07	732.77	6.16	80.17	2,968.17
	WARRICK COUNTY, IN	565.90	246.75	169.31	7,870.54	192.10	9,044.60
		<b>2,465.81</b>	<b>2,553.46</b>	<b>1,601.05</b>	<b>51,931.55</b>	<b>724.68</b>	
GRAND TOTAL							59,276.55

## 2022 Projected Emissions

### 2022 Southwestern Indiana Area (Tons Per Year)

Direct PM <sub>2.5</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	7.98	14.55	7.85	30.54	64.21	125.13
	GIBSON COUNTY, IN	1.22	22.36	6.73	3,624.85	0.69	3,655.85
	PIKE COUNTY, IN	2.01	6.75	3.21	2,527.21	0.15	2,539.33
	SPENCER COUNTY, IN	1.20	12.35	3.37	3,049.33	42.57	3,108.82
	VANDEBURGH COUNTY, IN	25.96	42.52	7.59	0.00	69.07	145.14
	WARRICK COUNTY, IN	10.56	13.04	5.30	2,021.08	979.81	3,029.79
		<b>48.93</b>	<b>111.57</b>	<b>34.05</b>	<b>11,253.01</b>	<b>1,156.50</b>	
GRAND TOTAL							12,604.06

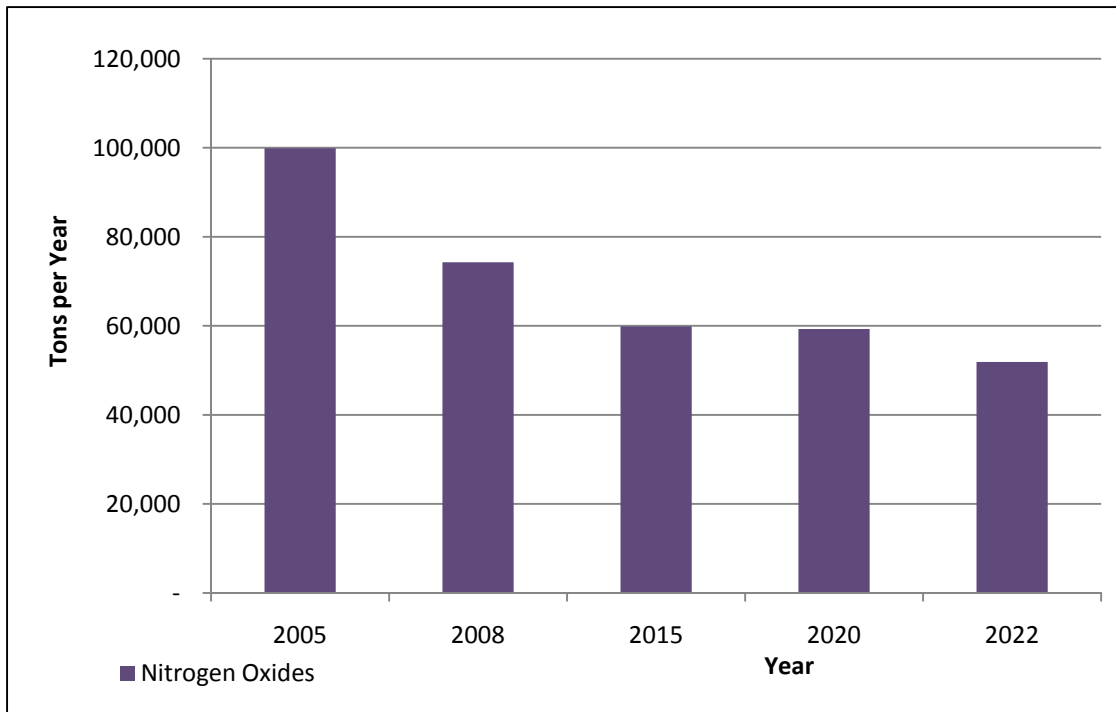
### 2022 Southwestern Indiana Area (Tons Per Year)

SO <sub>2</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	4.97	6.49	165.12	1,736.72	9.98	1,923.28
	GIBSON COUNTY, IN	0.76	23.17	103.23	22,740.13	0.34	22,867.63
	PIKE COUNTY, IN	1.17	3.37	22.09	12,169.86	4.85	12,201.34
	SPENCER COUNTY, IN	0.74	2.26	37.18	31,150.13	0.36	31,190.67
	VANDEBURGH COUNTY, IN	16.29	16.53	254.06	0.00	6.51	293.39
	WARRICK COUNTY, IN	6.26	0.55	69.60	25,851.74	222.43	26,150.58
		<b>30.19</b>	<b>52.37</b>	<b>651.28</b>	<b>93,648.58</b>	<b>244.47</b>	
GRAND TOTAL							94,626.89

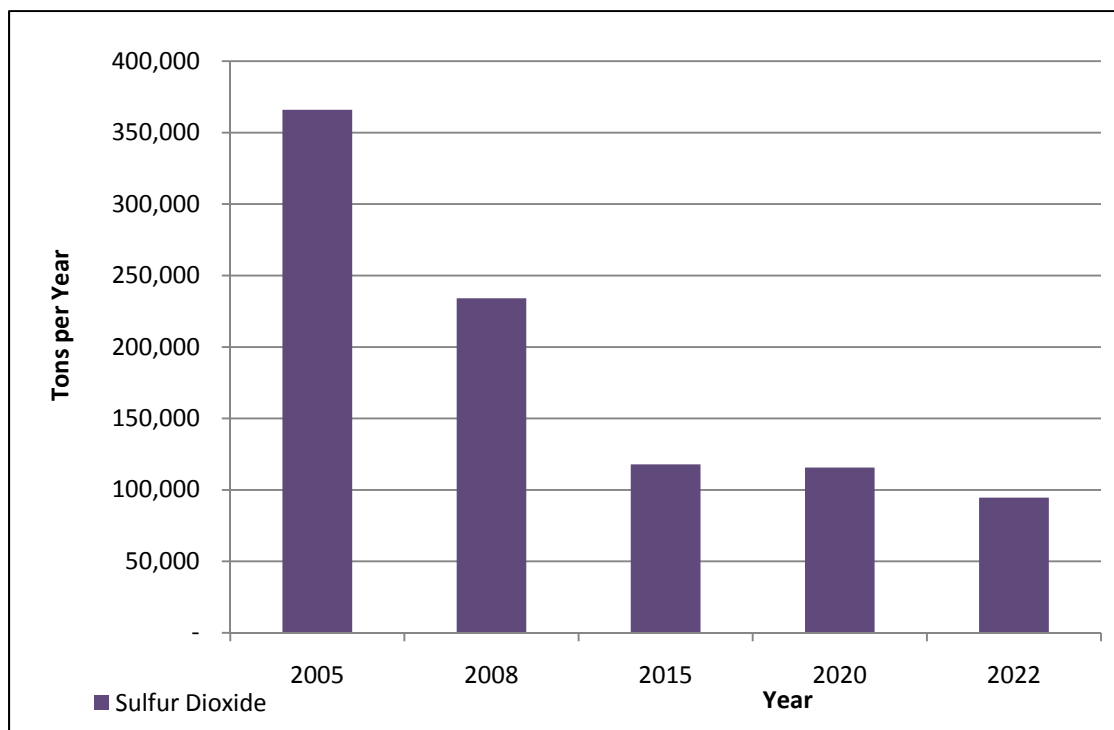
### 2022 Southwestern Indiana Area (Tons Per Year)

NO <sub>x</sub>		ONROAD	NONROAD	AREA	EGU	POINT	TOTAL
	DUBOIS COUNTY, IN	294.63	268.60	353.83	790.80	216.72	1,924.58
	GIBSON COUNTY, IN	40.88	436.09	216.11	3,406.37	43.67	4,143.12
	PIKE COUNTY, IN	98.25	122.63	40.93	12,223.57	72.21	12,557.59
	SPENCER COUNTY, IN	47.41	278.90	89.35	23,656.61	111.81	24,184.08
	VANDEBURGH COUNTY, IN	848.90	705.49	731.89	3.17	78.53	2,367.98
	WARRICK COUNTY, IN	369.79	198.31	169.86	5,781.61	187.84	6,707.41
		<b>1,699.86</b>	<b>2,010.02</b>	<b>1,601.97</b>	<b>45,862.13</b>	<b>710.78</b>	
GRAND TOTAL							51,884.76

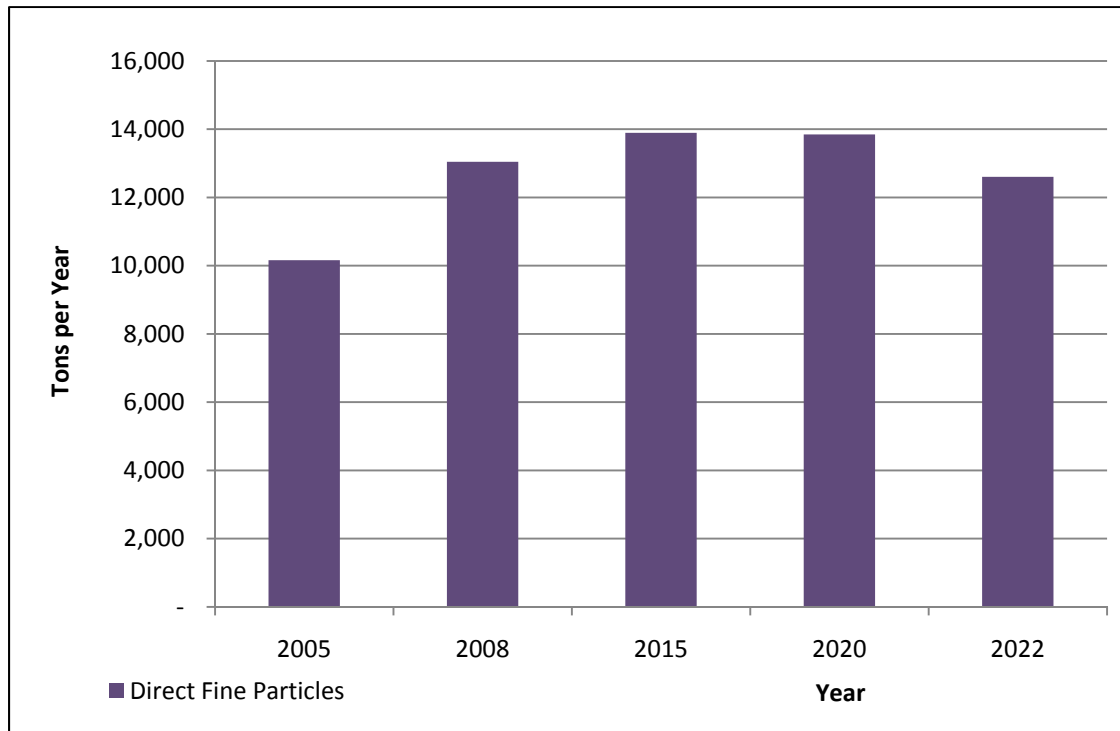
**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected NO<sub>x</sub> Emissions for the Southwestern Indiana Area**



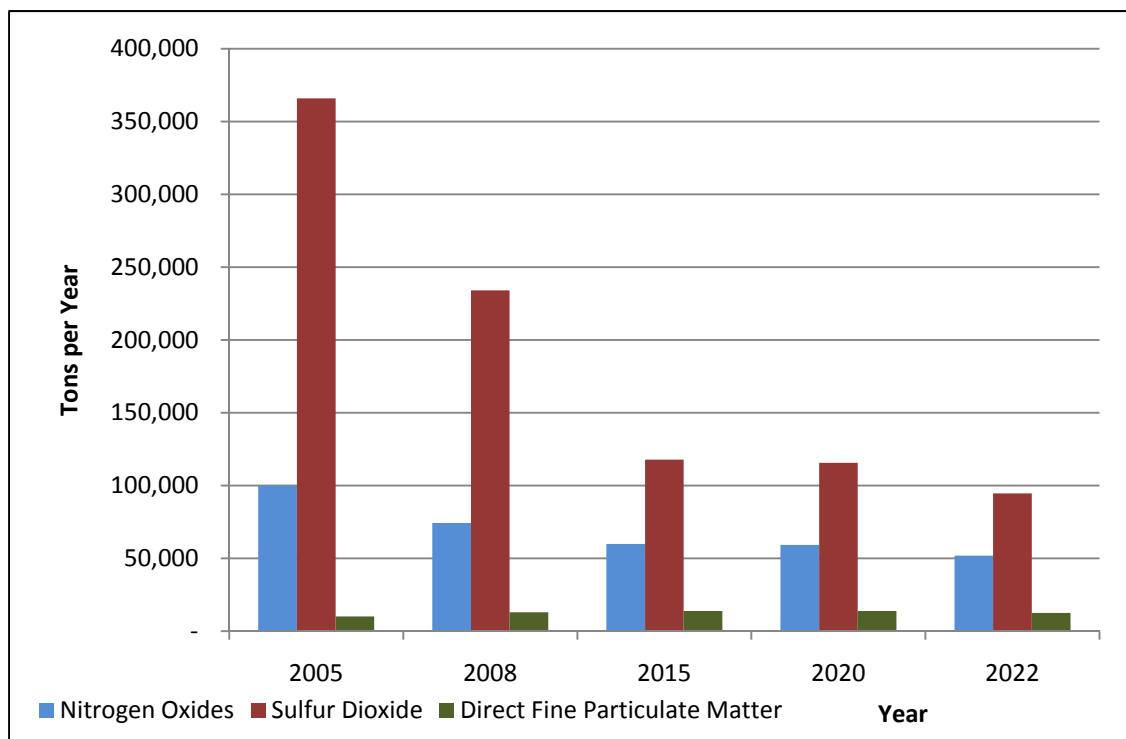
**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected SO<sub>2</sub> Emissions for the Southwestern Indiana Area**



**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected Direct PM<sub>2.5</sub> Emissions  
for the Southwestern Indiana Area**



**Comparison of 2005, 2008, 2015, 2020 and 2022 Projected NO<sub>x</sub>, SO<sub>2</sub> and  
Direct PM<sub>2.5</sub> Emissions for the Southwestern Indiana Area**



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# **APPENDIX F**

**Example Mobile Source**

**2002, 2010, 2015 and 2025**

**MOBILE6.2 Input and Output Calculation Files**

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2002  
MOBILE6.2 Input and Output files

2002\_AQreport.txt 2/15/2007  
 Air Quality Conformity Analysis Report for EUTS  
 from AQ+ post-processor for MOBILE6 and the Evansville Regional Travel  
 Model  
 Thu Feb 15 09:09:10 2007  
 Year: 2002  
 Scenario: 2002  
 Input File: C:\TDM\Model\_v3\post\2002\_POST\_24M6.DBF  
 Region: Vanderburgh Co.  
 Total VMT: 4416464  
 Freeway VMT: 513186  
 Arterial VMT: 3383040  
 Local VMT: 475613  
 Ramp VMT: 44625  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 3.64 tons/day  
 Other VOC: 4.01 tons/day  
 Total VOC: 7.65 tons/day  
 CO:  
 Running CO: 64.1 tons/day  
 Other CO: 26.7 tons/day  
 Total CO: 90.8 tons/day  
 NOx:  
 Running NOx: 9.85 tons/day  
 Other NOx: 1.33 tons/day  
 Total NOx: 11.18 tons/day  
 Annual PM 2.5:  
 PM 2.5: 69.19 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 1993.36 tons  
 Winter NOx: 1857.52 tons  
 Annual NOx: 3850.88 tons/year  
 Region: Warrick Co.  
 Total VMT: 1709281  
 Freeway VMT: 393192  
 Arterial VMT: 1111581  
 Local VMT: 170316  
 Ramp VMT: 34191  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 1.28 tons/day  
 Other VOC: 1.45 tons/day  
 Total VOC: 2.73 tons/day  
 CO:  
 Running CO: 24.28 tons/day  
 Other CO: 9.94 tons/day  
 Total CO: 34.22 tons/day  
 NOx:  
 Running NOx: 5.49 tons/day  
 Other NOx: 0.57 tons/day  
 Total NOx: 6.05 tons/day  
 Annual PM 2.5:  
 PM 2.5: 37.47 tons/year  
 1  
 Mobile6.in 2/15/2007  
 MOBILE6 INPUT FILE :  
 \*created by M6in macro written 6/13/03, vlb2  
 \*modified by EUTS for 2004 SIP  
 \*modified for PM 2.5 9/02/03, vlb2  
 POLLUTANTS : HC CO NOx  
 PARTICULATES :  
 REPORT FILE : C:\TDM\Model\_v3\post\M6REPORT.txt

RUN DATA  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty82.d  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 1  
 Mobile6.in 2/15/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 2  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 3  
 Mobile6.in 2/15/2007  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 4  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d



SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320

Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27  
 6  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019

0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 7  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV

PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 8  
 Mobile6.in 2/15/2007  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 9  
 Mobile6.in 2/15/2007  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064

0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 10  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV

PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 11  
 Mobile6.in 2/15/2007  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 42.5mph to 47.5mph



CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 12  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 13  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 14  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 15  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 16  
 Mobile6.in 2/15/2007  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 17  
 Mobile6.in 2/15/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 18  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002

EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 19  
 Mobile6.in 2/15/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5



FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 20  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 21  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 22  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 23  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12

VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 24  
 Mobile6.in 2/15/2007  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 25  
 Mobile6.in 2/15/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320

SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 26  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30

CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty87.d  
 27  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways 0mph  
 to  
 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways 2.5mph  
 to  
 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27



SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways 7.5mph  
 to  
 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 12.5mph  
 to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 28  
 Mobile6.in 2/15/2007  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 17.5mph  
 to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 22.5mph  
 to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 27.5mph  
 to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 29  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 32.5mph  
 to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082

0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 37.5mph  
 to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 42.5mph  
 to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 30  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 47.5mph  
 to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 52.5mph  
 to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 57.5mph  
 to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Freeways  
 62.5mph  
 to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 31  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials 0mph  
 to  
 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 32  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 12.5mph  
 to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 17.5mph  
 to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 22.5mph  
 to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 27.5mph

33  
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 to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 32.5mph  
 to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 37.5mph  
 to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 42.5mph  
 to 47.5mph  
 CALENDAR YEAR : 2002

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 34  
 Mobile6.in 2/15/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 47.5mph  
 to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 52.5mph  
 to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 57.5mph  
 to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3



ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 35  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Arterials  
 62.5mph  
 to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways 0mph  
 to  
 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 36  
 Mobile6.in 2/15/2007  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 12.5mph  
 to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 37  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 17.5mph  
 to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 22.5mph  
 to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 27.5mph  
 to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 38  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 32.5mph  
 to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 37.5mph  
 to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320

SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 42.5mph  
 to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 47.5mph  
 to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 39  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 52.5mph  
 to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 57.5mph

to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Freeways  
 62.5mph  
 to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 40  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2002

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 41  
 Mobile6.in 2/15/2007  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 42  
 Mobile6.in 2/15/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055



VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 43  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Arterials  
 62.5mph to 500mph  
 44  
 Mobile6.in 2/15/2007  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways 0mph  
 to  
 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 45  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 12.5mph  
 to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 46  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 17.5mph  
 to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 22.5mph  
 to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 27.5mph  
 to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 32.5mph  
 to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 47  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 37.5mph  
 to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 42.5mph  
 to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 47.5mph  
 to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 48  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV

PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 52.5mph  
 to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 57.5mph  
 to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Freeways  
 62.5mph  
 to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320

SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 0mph  
 49  
 Mobile6.in 2/15/2007  
 to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 12.5mph to 17.5mph



CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 50  
 Mobile6.in 2/15/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5

SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 51  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 47.5mph to 52.5mph  
 52  
 Mobile6.in 2/15/2007  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 53  
 Mobile6.in 2/15/2007  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty26.d  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 0mph to 2.5mph

CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 54  
 Mobile6.in 2/15/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 55  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 56  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 57  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002



EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 58  
 Mobile6.in 2/15/2007  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 59  
 Mobile6.in 2/15/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 60  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 47.5mph to 52.5mph  
 61  
 Mobile6.in 2/15/2007  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034

0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002  
 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 62  
 Mobile6.in 2/15/2007  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV

PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 63  
 Mobile6.in 2/15/2007  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways

7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 64  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 65  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5



ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 66  
 Mobile6.in 2/15/2007  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 67  
 Mobile6.in 2/15/2007  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 68  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 32.5mph to 37.5mph  
 69  
 Mobile6.in 2/15/2007  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 70  
 Mobile6.in 2/15/2007  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002  
 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 71  
 Mobile6.in 2/15/2007  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5

SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 72  
 Mobile6.in 2/15/2007  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12



VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 73  
 Mobile6.in 2/15/2007  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084

0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 74  
 Mobile6.in 2/15/2007  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 75  
 Mobile6.in 2/15/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 76  
 Mobile6.in 2/15/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 17.5mph to 22.5mph  
 77  
 Mobile6.in 2/15/2007  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 78  
 Mobile6.in 2/15/2007  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials

37.5mph to 42.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 79  
 Mobile6.in 2/15/2007  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2002

EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002  
 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002 Locals  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 80  
 Mobile6.in 2/15/2007  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5



SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2002 Ramps  
 CALENDAR YEAR : 2002  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 320  
 END OF RUN  
 81

2010  
MOBILE6.2 Input and Output files

2010\_DS\_43\_AQreport.txt 3/7/2007  
Air Quality Conformity Analysis Report for EUTS  
from AQ+ post-processor for MOBILE6 and the Evansville Regional Travel  
Model  
Wed Mar 07 10:30:21 2007  
Year: 2010  
Scenario: 2010 2035 LRP  
Input File: C:\TDM\Model\_v3\post\2010\_POST\_24M6.DBF  
Region: Vanderburgh Co.  
Total VMT: 4670502  
Freeway VMT: 563775  
Arterial VMT: 3527377  
Local VMT: 530326  
Ramp VMT: 49024  
July Day Ozone Precursors:  
VOC:  
Running VOC: 1.71 tons/day  
Other VOC: 2.46 tons/day

Total VOC: 4.17 tons/day  
 CO:  
 Running CO: 32.34 tons/day  
 Other CO: 12.63 tons/day  
 Total CO: 44.96 tons/day  
 NOx:  
 Running NOx: 5.1 tons/day  
 Other NOx: 0.66 tons/day  
 Total NOx: 5.76 tons/day  
 Annual PM 2.5:  
 PM 2.5: 37.51 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 1025.9 tons  
 Winter NOx: 960.94 tons  
 Annual NOx: 1986.84 tons/year  
 Region: Warrick Co.  
 Total VMT: 1793624  
 Freeway VMT: 415551  
 Arterial VMT: 1177369  
 Local VMT: 164568  
 Ramp VMT: 36135  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 0.56 tons/day  
 Other VOC: 0.86 tons/day  
 Total VOC: 1.43 tons/day  
 CO:  
 Running CO: 12.01 tons/day  
 Other CO: 4.61 tons/day  
 Total CO: 16.62 tons/day  
 NOx:  
 Running NOx: 2.74 tons/day  
 Other NOx: 0.27 tons/day  
 Total NOx: 3.01 tons/day  
 Annual PM 2.5:  
 PM 2.5: 18.95 tons/year  
 1  
 2010\_DS\_43\_AQreport.txt 3/7/2007  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 535.24 tons  
 Winter NOx: 497.06 tons  
 Annual NOx: 1032.3 tons/year  
 Region: Montgomery Twnshp.  
 Total VMT: 190900  
 Freeway VMT: 0  
 Arterial VMT: 112006  
 Local VMT: 78894  
 Ramp VMT: 0  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 0.11 tons/day  
 Other VOC: 0.11 tons/day  
 Total VOC: 0.23 tons/day  
 CO:  
 Running CO: 1.32 tons/day  
 Other CO: 0.57 tons/day  
 Total CO: 1.88 tons/day  
 NOx:  
 Running NOx: 0.21 tons/day  
 Other NOx: 0.03 tons/day  
 Total NOx: 0.24 tons/day  
 Annual PM 2.5:

PM 2.5: 1.69 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 42.81 tons  
 Winter NOx: 42.76 tons  
 Annual NOx: 85.57 tons/year  
 2  
 Mobile6.in 3/7/2007  
 MOBILE6 INPUT FILE :  
 \*created by M6in macro written 6/13/03, vlb2  
 \*modified by EUTS for 2004 SIP  
 \*modified for PM 2.5 9/02/03, vlb2  
 POLLUTANTS : HC CO NOx  
 PARTICULATES :  
 REPORT FILE : C:\TDM\Model\_v3\post\M6REPORT.txt  
 RUN DATA  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty82.d  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 1  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064

0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 2  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 3  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43



SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 0mph to 2.5mph  
 4  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 5  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 6  
 Mobile6.in 3/7/2007  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 7  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Locals  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 8  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 9  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 10  
 Mobile6.in 3/7/2007  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8



FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 11  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 12  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 13  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 14  
 Mobile6.in 3/7/2007  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 15  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Locals

CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 16  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 17  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d



PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 18  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 19  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 20  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 21  
 Mobile6.in 3/7/2007  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 22  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 23  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Locals  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 24  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty87.d  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV



PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 25  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 26  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 27  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 28  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 12.5mph to 17.5mph  
 29  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025

0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 30  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 31  
 Mobile6.in 3/7/2007  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43



SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Locals  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 32  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9

VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 7.5mph to 12.5mph  
 33  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 34  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 35  
 Mobile6.in 3/7/2007  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5

ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 36  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 37  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 38  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8



FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 39  
 Mobile6.in 3/7/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Locals  
 CALENDAR YEAR : 2010  
 40  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 41  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 42  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 43  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 44  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025

0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 45  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d



PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 46  
 Mobile6.in 3/7/2007  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 47  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 48  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Locals  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty26.d  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 49  
 Mobile6.in 3/7/2007  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 50  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 51  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047

52

Mobile6.in 3/7/2007

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5

DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Freeways  
62.5mph to 500mph

CALENDAR YEAR : 2010

EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8

FUEL RVP : 9

VMT FRACTIONS :

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084

0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5

DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
Arterials 0mph to 2.5mph

CALENDAR YEAR : 2010

EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8

FUEL RVP : 9

VMT FRACTIONS :

0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034

0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5

DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
Arterials 2.5mph to 7.5mph

CALENDAR YEAR : 2010

EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8

FUEL RVP : 9

VMT FRACTIONS :

0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034

0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV



PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 53  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 27.5mph to 32.5mph  
 54  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 55  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 56  
 Mobile6.in 3/7/2007  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Locals  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2010 Ramps

CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 57  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 22.5mph to 27.5mph  
 58  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 59  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 42.5mph to 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 47.5mph to 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 52.5mph to 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1



CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 60  
 Mobile6.in 3/7/2007  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Freeways 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034

0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 61  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 12.5mph to  
 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 17.5mph to  
 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 22.5mph to  
 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 62  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 27.5mph to  
 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 32.5mph to  
 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 37.5mph to  
 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 42.5mph to  
 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 63  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 47.5mph to  
 52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 52.5mph to  
 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 57.5mph to  
 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 64  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010 Locals

CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 65  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 12.5mph to 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 17.5mph to 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 66  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 22.5mph to 27.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 27.5mph to 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 32.5mph to 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 37.5mph to 42.5mph  
 CALENDAR YEAR : 2010



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EVALUATION MONTH : 1  
MIN/MAX TEMP : 32 51.9  
ABSOLUTE HUMIDITY : 30  
CLOUD COVER : 0.5  
SUNRISE/SUNSET : 7 5  
FUEL RVP : 12  
VMT FRACTIONS :  
0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV  
PARTICLE SIZE : 2.5  
DIESEL SULFUR : 43  
SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
Freeways 42.5mph to 47.5mph  
CALENDAR YEAR : 2010  
EVALUATION MONTH : 1  
MIN/MAX TEMP : 32 51.9  
ABSOLUTE HUMIDITY : 30  
CLOUD COVER : 0.5  
SUNRISE/SUNSET : 7 5  
FUEL RVP : 12  
VMT FRACTIONS :  
0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV  
PARTICLE SIZE : 2.5  
DIESEL SULFUR : 43  
SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
Freeways 47.5mph to 52.5mph  
CALENDAR YEAR : 2010  
EVALUATION MONTH : 1  
MIN/MAX TEMP : 32 51.9  
ABSOLUTE HUMIDITY : 30  
CLOUD COVER : 0.5  
SUNRISE/SUNSET : 7 5  
FUEL RVP : 12  
VMT FRACTIONS :  
0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV  
PARTICLE SIZE : 2.5  
DIESEL SULFUR : 43  
SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
Freeways 52.5mph to 57.5mph  
CALENDAR YEAR : 2010  
EVALUATION MONTH : 1  
MIN/MAX TEMP : 32 51.9  
ABSOLUTE HUMIDITY : 30  
CLOUD COVER : 0.5  
SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 68  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 57.5mph to 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Freeways 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 69  
 Mobile6.in 3/7/2007  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 12.5mph to  
 17.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 17.5mph to  
 22.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 22.5mph to  
 27.5mph  
 CALENDAR YEAR : 2010  
 70  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 27.5mph to  
 32.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 32.5mph to  
 37.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 37.5mph to  
 42.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 71  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 42.5mph to  
 47.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 47.5mph to

52.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 52.5mph to  
 57.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 57.5mph to  
 62.5mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 72  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010 Locals  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2010 Ramps  
 CALENDAR YEAR : 2010  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 43  
 73  
 Mobile6.in 3/7/2007  
 END OF RUN

2015  
MOBILE6.2 Input and Output files



2015\_AQreport.txt 3/7/2007  
Air Quality Conformity Analysis Report for EUTS  
from AQ+ post-processor for MOBILE6 and the Evansville Regional Travel  
Model  
Wed Mar 07 11:11:23 2007  
Year: 2015  
Scenario: 2015 2035 LRP  
Input File: C:\TDM\Model\_v3\post\2015\_POST\_24M6.DBF  
Region: Vanderburgh Co.  
Total VMT: 5021734  
Freeway VMT: 653612  
Arterial VMT: 3730653  
Local VMT: 580633  
Ramp VMT: 56836  
July Day Ozone Precursors:  
VOC:  
Running VOC: 1.23 tons/day  
Other VOC: 1.76 tons/day  
Total VOC: 2.99 tons/day  
NOx:  
Running NOx: 3.09 tons/day  
Other NOx: 0.5 tons/day  
Total NOx: 3.59 tons/day  
Annual PM 2.5:  
PM 2.5: 28.46 tons/year  
Seasonal PM 2.5 Precursors:  
NOx:  
Summer NOx: 638.87 tons  
Winter NOx: 599.65 tons  
Annual NOx: 1238.53 tons/year  
Region: Warrick Co.  
Total VMT: 1847572  
Freeway VMT: 440993

Arterial VMT: 1214768  
 Local VMT: 153463  
 Ramp VMT: 38347  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 0.38 tons/day  
 Other VOC: 0.6 tons/day  
 Total VOC: 0.98 tons/day  
 NOx:  
 Running NOx: 1.51 tons/day  
 Other NOx: 0.19 tons/day  
 Total NOx: 1.7 tons/day  
 Annual PM 2.5:  
 PM 2.5: 12.45 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 302.96 tons  
 Winter NOx: 281.35 tons  
 Annual NOx: 584.3 tons/year  
 Region: Montgomery Twnshp.  
 1  
 2015\_AQreport.txt 3/7/2007  
 Total VMT: 202464  
 Freeway VMT: 0  
 Arterial VMT: 116699  
 Local VMT: 85765  
 Ramp VMT: 0  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 0.08 tons/day  
 Other VOC: 0.08 tons/day  
 Total VOC: 0.16 tons/day  
 NOx:  
 Running NOx: 0.13 tons/day  
 Other NOx: 0.02 tons/day  
 Total NOx: 0.15 tons/day  
 Annual PM 2.5:  
 PM 2.5: 1.21 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 26.58 tons  
 Winter NOx: 26.73 tons  
 Annual NOx: 53.31 tons/year  
 2  
 Mobile6.in 3/7/2007  
 MOBILE6 INPUT FILE :  
 \*created by M6in macro written 6/13/03, vlb2  
 \*modified by EUTS for 2004 SIP  
 \*modified for PM 2.5 9/02/03, vlb2  
 POLLUTANTS : HC CO NOx  
 PARTICULATES :  
 REPORT FILE : C:\TDM\Model\_v3\post\M6REPORT.txt  
 RUN DATA  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty82.d  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 1  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 2  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 3  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 0mph to 2.5mph  
 4  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 5  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15



SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 6  
 Mobile6.in 3/7/2007  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 7  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 8  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 9  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5

ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 10  
 Mobile6.in 3/7/2007

0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 11  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 12  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8



FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 13  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 14  
 Mobile6.in 3/7/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 15  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 16  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 17  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30

CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 18  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064

0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 19  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d



PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 20  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 21  
 Mobile6.in 3/7/2007  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 22  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 23  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 24  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty87.d  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 25  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 26  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV



PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 27  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 28  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 12.5mph to 17.5mph  
 29  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 30  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 31  
 Mobile6.in 3/7/2007  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 32  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 7.5mph to 12.5mph  
 33  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5



ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 34  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 35  
 Mobile6.in 3/7/2007  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 36  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt22.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt22.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 37  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt22.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5

ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 38  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 39  
 Mobile6.in 3/7/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Locals  
 CALENDAR YEAR : 2015  
 40

Mobile6.in 3/7/2007  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045



VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 41  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 42  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015

EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 43  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 44  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 45  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 46  
 Mobile6.in 3/7/2007  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 47  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12

VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d



PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 48  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty26.d  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 49  
 Mobile6.in 3/7/2007  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 50  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 51  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 52  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 53  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 27.5mph to 32.5mph  
 54  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 55  
 Mobile6.in 3/7/2007



PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2015

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 56  
 Mobile6.in 3/7/2007  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 57  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 22.5mph to 27.5mph  
 58  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 59  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 60  
 Mobile6.in 3/7/2007  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Freeways 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 61  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 12.5mph to  
 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 17.5mph to  
 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 22.5mph to  
 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 62  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15



SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 27.5mph to  
 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 32.5mph to  
 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 37.5mph to  
 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 42.5mph to  
 47.5mph  
 CALENDAR YEAR : 2015

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 63  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 47.5mph to  
 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 52.5mph to  
 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 57.5mph to  
 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5

ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 64  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2015 Ramps  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 65  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 12.5mph to 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 17.5mph to 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 66  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 22.5mph to 27.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 27.5mph to 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 32.5mph to 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 37.5mph to 42.5mph  
 CALENDAR YEAR : 2015  
 67  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 42.5mph to 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 47.5mph to 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 52.5mph to 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 68  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 57.5mph to 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Freeways 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 69  
 Mobile6.in 3/7/2007  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15



SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 12.5mph to  
 17.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 17.5mph to  
 22.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 22.5mph to  
 27.5mph  
 CALENDAR YEAR : 2015

Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 27.5mph to  
 32.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 32.5mph to  
 37.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 37.5mph to  
 42.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30

CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 71  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 42.5mph to  
 47.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 47.5mph to  
 52.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 52.5mph to  
 57.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 57.5mph to  
 62.5mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 72  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015 Locals  
 CALENDAR YEAR : 2015  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV  
PARTICLE SIZE : 2.5  
DIESEL SULFUR : 15  
SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2015 Ramps  
CALENDAR YEAR : 2015  
EVALUATION MONTH : 1  
MIN/MAX TEMP : 32 51.9  
ABSOLUTE HUMIDITY : 30  
CLOUD COVER : 0.5  
SUNRISE/SUNSET : 7 5  
FUEL RVP : 12  
VMT FRACTIONS :  
0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV  
PARTICLE SIZE : 2.5  
DIESEL SULFUR : 15  
73  
Mobile6.in 3/7/2007  
END OF RUN  
74

2025  
MOBILE6.2 Input and Output files

2025\_AQreport.txt 3/7/2007  
 Air Quality Conformity Analysis Report for EUTS  
 from AQ+ post-processor for MOBILE6 and the Evansville Regional Travel  
 Model  
 Wed Mar 07 12:56:32 2007  
 Year: 2025  
 Scenario: 2025 2035LRP  
 Input File: C:\TDM\Model\_v3\post\2025\_POST\_24M6.DBF  
 Region: Vanderburgh Co.  
 Total VMT: 5471239  
 Freeway VMT: 800727  
 Arterial VMT: 3980969  
 Local VMT: 619915  
 Ramp VMT: 69628  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 1.01 tons/day  
 Other VOC: 1.12 tons/day  
 Total VOC: 2.13 tons/day  
 NOx:  
 Running NOx: 1.68 tons/day  
 Other NOx: 0.3 tons/day  
 Total NOx: 1.97 tons/day  
 Annual PM 2.5:  
 PM 2.5: 24.89 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 351.36 tons  
 Winter NOx: 330.13 tons  
 Annual NOx: 681.49 tons/year  
 Region: Warrick Co.  
 Total VMT: 2004621  
 Freeway VMT: 444577  
 Arterial VMT: 1340861  
 Local VMT: 180524  
 Ramp VMT: 38659  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 0.33 tons/day  
 Other VOC: 0.39 tons/day  
 Total VOC: 0.71 tons/day  
 NOx:  
 Running NOx: 0.7 tons/day  
 Other NOx: 0.11 tons/day  
 Total NOx: 0.81 tons/day  
 Annual PM 2.5:  
 PM 2.5: 9.75 tons/year  
 Seasonal PM 2.5 Precursors:

NOx:  
 Summer NOx: 143.78 tons  
 Winter NOx: 134.1 tons  
 Annual NOx: 277.88 tons/year  
 Region: Montgomery Twnshp.  
 1  
 2025\_AQreport.txt 3/7/2007  
 Total VMT: 262393  
 Freeway VMT: 0  
 Arterial VMT: 121182  
 Local VMT: 141211  
 Ramp VMT: 0  
 July Day Ozone Precursors:  
 VOC:  
 Running VOC: 0.09 tons/day  
 Other VOC: 0.06 tons/day  
 Total VOC: 0.15 tons/day  
 NOx:  
 Running NOx: 0.08 tons/day  
 Other NOx: 0.02 tons/day  
 Total NOx: 0.1 tons/day  
 Annual PM 2.5:  
 PM 2.5: 1.23 tons/year  
 Seasonal PM 2.5 Precursors:  
 NOx:  
 Summer NOx: 17.56 tons  
 Winter NOx: 18.12 tons  
 Annual NOx: 35.68 tons/year  
 2  
 Mobile6.in 3/7/2007  
 MOBILE6 INPUT FILE :  
 \*created by M6in macro written 6/13/03, vlb2  
 \*modified by EUTS for 2004 SIP  
 \*modified for PM 2.5 9/02/03, vlb2  
 POLLUTANTS : HC CO NOx  
 PARTICULATES :  
 REPORT FILE : C:\TDM\Model\_v3\post\M6REPORT.txt  
 RUN DATA  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty82.d  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025



EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 1  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 2  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 3  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 0mph to 2.5mph  
 4  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019

0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 5  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 6  
 Mobile6.in 3/7/2007  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 7  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3



ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 8  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. July 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 9  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 10  
 Mobile6.in 3/7/2007  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5

ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 11  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 12  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 13  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 14  
 Mobile6.in 3/7/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d



VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 15  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 16  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Summer 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 17  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt115.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt116.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 18  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt117.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt118.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt119.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 19  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064

0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt11.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 20  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt121.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt122.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt12.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt123.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt13.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 21  
 Mobile6.in 3/7/2007  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt124.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt14.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt125.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt15.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt126.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt16.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15



SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt127.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt17.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 22  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt128.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt18.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt129.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt19.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt110.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt111.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 23  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt112.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt113.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4880 0.0742 0.2469 0.0761 0.0350 0.0240 0.0024 0.0019  
 0.0014 0.0053 0.0063 0.0069 0.0245 0.0017 0.0008 0.0046  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt12.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt1214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt114.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.5069 0.0771 0.2564 0.0790 0.0364 0.0124 0.0012 0.0009  
 0.0007 0.0027 0.0033 0.0035 0.0126 0.0028 0.0013 0.0028  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt13.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 24  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Vanderburgh Co. Winter 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3950 0.0600 0.1997 0.0615 0.0283 0.0810 0.0080 0.0064  
 0.0047 0.0178 0.0212 0.0231 0.0828 0.0043 0.0021 0.0041  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt14.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt11.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty87.d  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways 2.5mph  
 to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways 7.5mph  
 to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 25  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 26  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

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VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5

DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
47.5mph to 52.5mph

CALENDAR YEAR : 2025

EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8

FUEL RVP : 9

VMT FRACTIONS :

0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082

0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5

DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
52.5mph to 57.5mph

CALENDAR YEAR : 2025

EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8

FUEL RVP : 9

VMT FRACTIONS :

0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082

0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5

DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
57.5mph to 62.5mph

CALENDAR YEAR : 2025

EVALUATION MONTH : 7

MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1

CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8

FUEL RVP : 9

VMT FRACTIONS :

0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082

0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 28  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025



EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 12.5mph to 17.5mph  
 29  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 30  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 31  
 Mobile6.in 3/7/2007  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 32  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. July 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27

SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 7.5mph to 12.5mph  
 33  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 34  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1

CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 35  
 Mobile6.in 3/7/2007  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082



0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 36  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 37  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 38  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5

ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 39  
 Mobile6.in 3/7/2007  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Locals  
 CALENDAR YEAR : 2025  
 40  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Summer 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways 0mph  
 to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 41  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt215.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 42  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt216.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt217.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt218.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt219.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV



PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 43  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025

EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 44  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt21.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt221.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5

FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt222.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt22.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt223.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt23.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 45  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt224.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt24.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt225.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt25.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt226.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt26.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 46  
 Mobile6.in 3/7/2007  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt227.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt27.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt228.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt28.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5

DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt229.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt29.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt210.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 47  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt211.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1

MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt212.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt213.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Arterials  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4739 0.0720 0.2396 0.0738 0.0340 0.0324 0.0032 0.0025  
 0.0019 0.0071 0.0085 0.0092 0.0330 0.0023 0.0011 0.0055  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt22.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt2214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt214.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 48  
 Mobile6.in 3/7/2007  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.4943 0.0751 0.2500 0.0770 0.0354 0.0200 0.0020 0.0016  
 0.0012 0.0044 0.0053 0.0057 0.0204 0.0027 0.0013 0.0036  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt23.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Warrick Co. Winter 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3575 0.0543 0.1807 0.0556 0.0256 0.1036 0.0103 0.0082  
 0.0059 0.0228 0.0271 0.0296 0.1059 0.0057 0.0027 0.0045  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt24.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt21.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 END OF RUN  
 EXPAND EXHAUST :  
 EXPAND EVAPORATIVE :  
 NO REFUELING :  
 REG DIST : C:\TDM\Model\_v3\post\IN\_cty26.d  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 49  
 Mobile6.in 3/7/2007  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d

VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15



SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 50  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 51  
 Mobile6.in 3/7/2007  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 52  
 Mobile6.in 3/7/2007  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Freeways  
 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 53  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 27.5mph to 32.5mph  
 54  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3

ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 55  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :

0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 56  
 Mobile6.in 3/7/2007  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. July 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 67.6 89.3  
 ABSOLUTE HUMIDITY : 102.1  
 CLOUD COVER : 0.27  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32



57  
 Mobile6.in 3/7/2007  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 22.5mph to 27.5mph  
 58  
 Mobile6.in 3/7/2007  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 59  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025

EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 60  
 Mobile6.in 3/7/2007  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Freeways 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8

FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 61  
 Mobile6.in 3/7/2007  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 12.5mph to  
 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068

VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 17.5mph to  
 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 22.5mph to  
 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 62  
 Mobile6.in 3/7/2007  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 27.5mph to  
 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 32.5mph to  
 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 37.5mph to  
 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 42.5mph to  
 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 63  
 Mobile6.in 3/7/2007  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 47.5mph to  
 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 52.5mph to  
 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 57.5mph to  
 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 64  
 Mobile6.in 3/7/2007



PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Summer 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 7  
 MIN/MAX TEMP : 58.6 81.5  
 ABSOLUTE HUMIDITY : 83.1  
 CLOUD COVER : 0.32  
 SUNRISE/SUNSET : 6 8  
 FUEL RVP : 9  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12

VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 65  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt311.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt312.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt313.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 12.5mph to 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt314.d

SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 17.5mph to 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 66  
 Mobile6.in 3/7/2007  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt315.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 22.5mph to 27.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt316.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 27.5mph to 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt317.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15

SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 32.5mph to 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt318.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 37.5mph to 42.5mph  
 CALENDAR YEAR : 2025  
 67  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt319.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 42.5mph to 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3110.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 47.5mph to 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9

ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3111.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 52.5mph to 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3112.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 68  
 Mobile6.in 3/7/2007  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 57.5mph to 62.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3113.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Freeways 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :

0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084  
 0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt31.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3114.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 0mph to 2.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt321.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 2.5mph to 7.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 69  
 Mobile6.in 3/7/2007  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt322.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt32.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 7.5mph to 12.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt323.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt33.d

PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 12.5mph to  
 17.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt324.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt34.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 17.5mph to  
 22.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt325.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt35.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 22.5mph to  
 27.5mph  
 CALENDAR YEAR : 2025  
 70  
 Mobile6.in 3/7/2007  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt326.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt36.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV

PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 27.5mph to  
 32.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt327.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt37.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 32.5mph to  
 37.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt328.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt38.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 37.5mph to  
 42.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 71  
 Mobile6.in 3/7/2007  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt329.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt39.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15



SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 42.5mph to  
 47.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3210.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt310.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 47.5mph to  
 52.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3211.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt311.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 52.5mph to  
 57.5mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3212.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt312.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 57.5mph to  
 62.5mph  
 CALENDAR YEAR : 2025

EVALUATION MONTH : 1  
 72  
 Mobile6.in 3/7/2007  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3213.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt313.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025  
 Arterials 62.5mph to 500mph  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4544 0.0690 0.2297 0.0708 0.0326 0.0439 0.0044 0.0034  
 0.0025 0.0096 0.0115 0.0125 0.0448 0.0028 0.0013 0.0068  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt32.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt3214.d  
 SPEED VMT : C:\TDM\Model\_v3\post\Svmt314.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025 Locals  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.4870 0.0740 0.2462 0.0759 0.0349 0.0245 0.0024 0.0019  
 0.0014 0.0054 0.0064 0.0070 0.0250 0.0027 0.0013 0.0040  
 VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt33.d  
 VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
 PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
 PMDDR2.CSV  
 PARTICLE SIZE : 2.5  
 DIESEL SULFUR : 15  
 SCENARIO RECORD : Scenario Title : Montgomery Twnshp. Winter 2025 Ramps  
 CALENDAR YEAR : 2025  
 EVALUATION MONTH : 1  
 MIN/MAX TEMP : 32 51.9  
 ABSOLUTE HUMIDITY : 30  
 CLOUD COVER : 0.5  
 SUNRISE/SUNSET : 7 5  
 FUEL RVP : 12  
 VMT FRACTIONS :  
 0.3525 0.0536 0.1783 0.0549 0.0253 0.1065 0.0106 0.0084

0.0061 0.0234 0.0279 0.0304 0.1088 0.0058 0.0028 0.0047  
VMT BY FACILITY : C:\TDM\Model\_v3\post\Fvmt34.d  
VMT BY HOUR : C:\TDM\Model\_v3\post\Hvmt31.d  
PARTICULATE EF : PMGZML.CSV PMGDR1.CSV PMGDR2.CSV PMDZML.CSV PMDDR1.CSV  
PMDDR2.CSV  
PARTICLE SIZE : 2.5  
DIESEL SULFUR : 15  
73  
Mobile6.in 3/7/2007  
END OF RUN

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# **APPENDIX G**

## **Jasper Post Office Incomplete PM<sub>2.5</sub> Monitoring Data Analysis**

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# Data Analysis for Missing PM<sub>2.5</sub> Data at the Jasper Post Office Monitor in Dubois County, Indiana

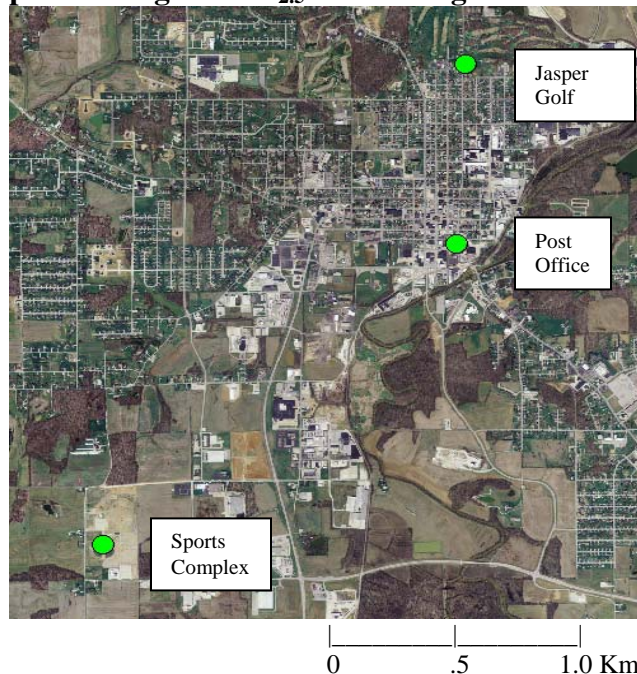
## Introduction

During the first, second, and third quarters of 2008 and during the second quarter of 2009 the Jasper Post Office monitor located in Dubois County, Indiana, Site ID 18-037-2001, recorded low Valid Data Return (VDR) for PM<sub>2.5</sub>. The U.S. EPA required VDR in a quarter is 75%. According to U.S. EPA guidance, the monitoring data for 2007 through 2009 at the Jasper Post Office monitor is incomplete. Therefore, an analysis of missing data during the first, second, and third quarters of 2008 and the second quarter of 2009 was conducted and the following details the scenarios for filling in the missing data and determining an accurate design value.

## Monitoring Network

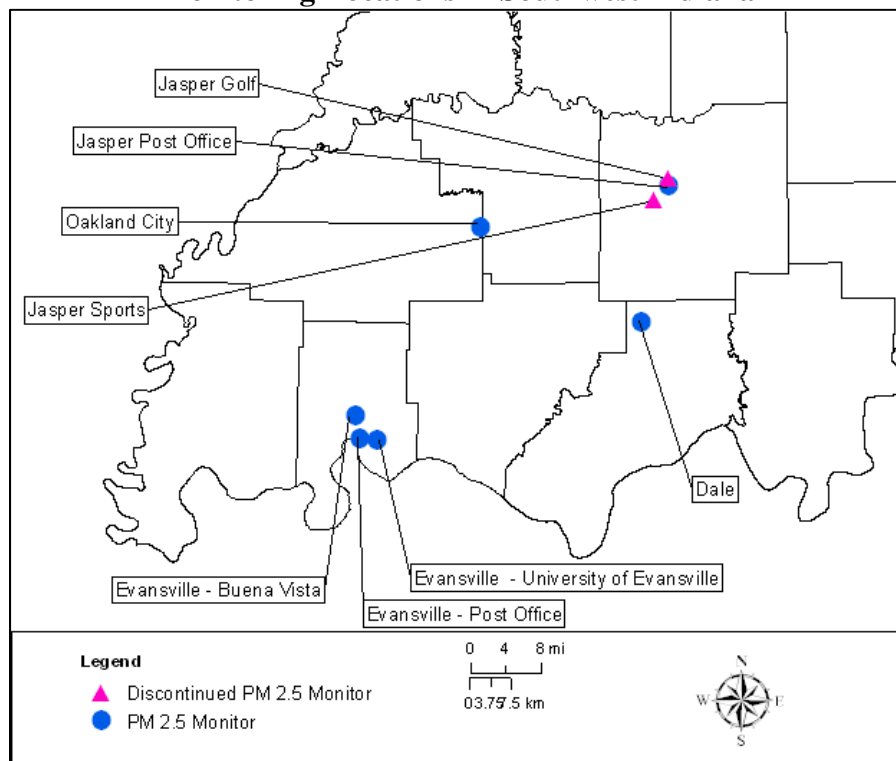
Currently there is only one monitor located in Dubois County, Indiana on top of the Post Office located at 200 E. 6<sup>th</sup> Street in Jasper, which is near the town square. In February 2006 two additional PM<sub>2.5</sub> monitors were installed, one upwind and one downwind of the Jasper Post Office monitor. The additional monitors in Jasper were installed to determine the level of fine particulate matter coming in and going out of Jasper. The upwind monitor was located at the Jasper Sports Complex, 1401 12<sup>th</sup> Ave, and the downwind monitor was located at the Jasper Golf Center at 1729 Jackson St. The locations of the monitors in Dubois County are shown in the aerial photograph below in Figure 1. The Jasper Sports Complex and Jasper Golf Center monitors were discontinued in December 2008. Indiana operates an extensive network of PM<sub>2.5</sub> monitors stretching throughout the state, including a monitor in nearby Spencer (Dale) and Gibson (Oakland City) counties in southwestern Indiana. A map showing the locations of the monitors in Southwest Indiana is below in Figure 2.

**Figure 1**  
**Aerial Photograph Showing the PM<sub>2.5</sub> Monitoring Locations in Jasper, Indiana**



Upon establishment of the Jasper Post Office monitoring site, data values from this location were higher than other monitors in southwest Indiana and among the highest in the state. The two additional monitors at the Jasper Sports Complex and Jasper Golf Center were installed to determine if there was a local source impacting the Post Office monitor. Indiana Department of Environmental Management (IDEM) performed a detailed analysis using data from the three sites and determined that there was no major impact from local sources to account for the high values. During the three year study, a very high level of correlation was displayed between the sites and also with the monitor in Dale, and the conclusion was that the high values were due to regional contributions.

**Figure 2**  
**Monitoring Locations in Southwest Indiana**



### **Calculation of the PM<sub>2.5</sub> Annual Standard**

The U.S. EPA developed a “Guideline for Data Handling Conventions for the PM National Ambient Air Quality Standard (NAAQS)”, released in April 1999 (Guidance), to assess compliance with the standard. The annual PM<sub>2.5</sub> standard is set at 15.0 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ). The annual standard is met when the 3-year average of the annual mean concentrations across a designated area is less than or equal to 15.0  $\mu\text{g}/\text{m}^3$ . Any design value above this is a violation of the standard.

### **Missing Data Review**

Examining the first, second and third quarters of 2008 and the second quarter of 2009 for the Jasper Post Office monitor, the missing data was a result of power failures and machine malfunction errors at the monitor. Many of the repair and maintenance trips were made to the Jasper Post Office monitoring site to address the problems as they arose. Repairs were made to the monitor and samplers were also exchanged in February, March, and April. The majority of the invalid samples can be attributed to three



mechanical situations. First, a sensor in the sampler resulted in the filter cassettes not allowing the supply magazine to rise or to be pushed down into the receiver magazine. Second, a new version of the Federal Reference Method (FRM) samplers was being distributed from the vendor. Indiana had purchased several of these new units and the new samplers were originally shipped without the required shims in the filter exchange area. This problem was identified after some time and the shims were later installed. Third, new filter cassettes were purchased in late 2007. These cassettes were milled slightly different than the ones being used prior to this. An extra amount of torque had to be applied to them to get the m seated and clamped together as tightly as needed. If the cassettes were not applied correctly then problems occurred with the filter exchanges in the samplers, resulting in invalid samples. This problem was especially prevalent with the new version of the FRM samplers. Table 1 below lists the types of errors that occurred at the Jasper Post Office monitor in the year 2008.

**Table 1**  
**Jasper Post Office Monitor Errors**

	<b>Exchange Error</b>	<b>Monitor Error</b>	<b>Collection Error</b>	<b>Operator Error</b>	<b>Other Error</b>	<b>Total Errors</b>
<b>1<sup>st</sup> Q 2008</b>	13	18	5	6	7	49
<b>2<sup>nd</sup> Q 2008</b>	19	0	2	1	3	25
<b>3<sup>rd</sup> Q 2008</b>	15	0	0	10	1	26
<b>4<sup>th</sup> Q 2008</b>	1	0	7	8	0	16

These problems with the monitors were occurring at other sites throughout the state and the PM<sub>2.5</sub> specialists from IDEM's Office of Air Quality had a difficult time responding to all of the errors as quickly as they were occurring in the year 2008. Once the mechanical problems were identified during the year, the VDR improved and the errors which were being encountered were more collection issues than problems with the filters.

These errors caused the Jasper Post Office monitor to record low VDR in the first, second and third quarters of 2008 and the second quarter of 2009 making the three year average from 2007 through 2009 incomplete. The U.S. EPA required VDR in a quarter is 75%. For the remaining quarters of 2008 and 2009 the Jasper Post Office monitor had a VDR over 75%. Table 2 shows the VDR percentages in each quarter for 2007 through 2009 monitoring data at the Jasper Post Office monitor.

Page 15 of the Guidance contains the following information. **“9. What if I want to show I meet the standards but I don't have complete data?** Appendix N says you may have compelling reasons to use less complete data, but the Regional Administrator must approve it. The Regional Administrator may want to consider filling in for missing scheduled sampling days using the procedures...if you • Have at least 50% of the scheduled number of samples for each quarter for all three years. • Show that the emissions and meteorology for the substitute quarters compare to the emissions and meteorology for the quarters in question. • Meet the standards based on the incomplete data.”

**Table 2**  
**VDR at the Jasper Post Office Monitor for 2007 through 2009**

Quarter	Valid Data Return (VDR)
1Q 2007	77%
2Q 2007	89%
3Q 2007	88%
4Q 2007	95%
1Q 2008	46%
2Q 2008	73%
3Q 2008	72%
4Q 2008	83%
1Q 2009	100%
2Q 2009	68%
3Q 2009	90%
4Q 2009	87%

Yellow highlight indicates a low VDR

According to the Guidance, the 2007 through 2009 design value for the Jasper Post Office monitor is incomplete. Table 3 lists the quarterly and annual averages for the three monitors located in Jasper for the years 2007 and 2008. Table 4 below lists the annual means and three-year design value for all the monitors located in southwestern Indiana. All of the monitors in southwestern Indiana are below the PM<sub>2.5</sub> standard.

**Table 3**  
**Quarterly and Annual Averages at the Jasper Monitors for 2007 through 2008**

	Jasper Post Office		Jasper Sports		Jasper Golf	
	VDR	Value	VDR	Value	VDR	Value
<b>1 Q 2007</b>	77%	11.87	87%	12.34	90%	12.48
<b>2 Q 2007</b>	89%	15.44	83%	16.32	93%	16.83
<b>3 Q 2007</b>	88%	17.34	74%	18.00	94%	18.04
<b>4 Q 2007</b>	95%	12.39	73%	11.77	93%	12.34
<b>Year 2007</b>		14.3		14.6		14.9
<b>1 Q 2008</b>	46%	13.77	74%	11.00	77%	12.65
<b>2 Q 2008</b>	73%	12.23	73%	11.75	83%	11.74
<b>3 Q 2008</b>	72%	15.52	87%	15.62	94%	15.06
<b>4 Q 2008</b>	83%	10.18	90%	10.04	100%	10.67
<b>Year 2008</b>		12.9		12.1		12.5

Yellow highlight indicates a low VDR

**Table 4**  
**Annual Means and Design Values for 2007 through 2009**

County	Monitor Location	Annual Mean 2007	Annual Mean 2008	Annual Mean 2009	Design Value 2007-2009
Dubois	Jasper Sport	14.61	12.10		
Dubois	Jasper Golf	14.92	12.53		
Dubois	Jasper Post Office	14.26	12.93	12.49	13.2*
Gibson	Oakland City		11.33	11.00	11.2 <sup>2</sup>
Spencer	Dale	14.13	12.03	11.77	12.6
Vanderburgh	Evansville Civic Center/Post Office	13.91	12.58	12.32	12.9
Vanderburgh	Mill Road/Buena Vista	14.23	12.70	12.28	13.1
Vanderburgh	University of Evansville	14.21	12.53	12.49	13.1

The Jasper Sport and Jasper Golf monitors began operation February 1, 2006 and were discontinued on December 31, 2008.

The Oakland City monitor began operation on January 18, 2008.

The Evansville Civic Center monitor was replaced by the Evansville Post Office monitor and data for 2009 as well as the 2007 and 2009 design value have been combined.

The Evansville Mill Road monitor was replaced by the Evansville Buena Vista monitor and data for 2009 as well as the 2007-2009 design value have been combined.

\*The Jasper Post Office monitor data is incomplete; it is missing the required amount of data in the first, second, and third quarters of 2008, as well as the second quarter of 2009.

<sup>2</sup> Indicates design value is based on two years of data.

IDEM conducted an analysis of the missing data at the Jasper Post Office monitor. As per 40CFR part 58.12 if the daily design value of an area is plus or minus 5% of the NAAQS (between 33.25  $\mu\text{g}/\text{m}^3$  and 36.75  $\mu\text{g}/\text{m}^3$  for PM) then the sampling at the design site must be daily. The Jasper Post Office monitor's design value for the 2004-2006 period was 34.267  $\mu\text{g}/\text{m}^3$  which prompted daily sampling in 2007. The Jasper Post Office monitor's design value for the 2005-2007 period was 34.993  $\mu\text{g}/\text{m}^3$ , causing the daily sampling to continue through 2008. The Jasper Post Office monitor's design value from 2006-2008 dropped to 30.267  $\mu\text{g}/\text{m}^3$  and the sampling frequency was switched to every third day in 2009. According to the Guidance, creditable samples are samples that are given credit for data completeness which determines the VDR for each quarter. Creditable samples include those collected on required sampling days and valid make-up samples taken for missed or invalidated scheduled samples. For monitoring sites that sample every day, such as the Jasper Post Office monitor in 2008, the creditable number of samples will always be the same as the total number of samples. Sites that sample every day cannot have make-up days or data substituted since every day is a scheduled sample day. A combination of situations beginning in 2008 resulted in problems with the Jasper Post Office monitor and a high percentage of invalid samples in 2008. Table 5 below lists the number of creditable samples for the year 2008.

**Table 5**  
**2008 Creditable Samples**

Quarter	Scheduled Samples	Credible Samples	% Valid
1 <sup>st</sup>	91	42	46%
2 <sup>nd</sup>	91	66	73%
3 <sup>rd</sup>	92	66	72%
4 <sup>th</sup>	92	76	83%

The Jasper Post Office monitor is the only monitor still in operation in Dubois County. The design value for 2007 through 2009 for the Jasper Sport and Jasper Golf monitor cannot be calculated since the two monitors were shut down at the end of 2008. Even though the Jasper Post Office monitor cannot have make-up days or data substituted, IDEM conducted an analysis on the missing data for 2008 and 2009 and evaluated alternative methods for filling in the missing data. While the alternative methods do not follow the Guidance, they do provide a conservative estimate for what data at the Jasper Post Office monitor would have looked like had the monitor collected data on the missing days. The annual mean and design value along with alternative methods for the design value are listed in Table 4 below.

An analysis was also conducted comparing the concentrations from the PM<sub>2.5</sub> monitors at the Jasper Post Office, the Jasper Sports, and the Jasper Golf sites. Monitoring data are available from all three PM<sub>2.5</sub> monitors during 2008 comparing the upwind (Jasper Golf) and downwind site (Jasper Sports) with the Jasper Post Office PM<sub>2.5</sub> monitor. The PM<sub>2.5</sub> monitors are closely located and the concentrations at all three monitors tracked closely throughout 2008. The three monitors are essentially monitoring the same air mass and IDEM calculated an alternative method (Alternative Methods C and D) listed in Table 6 that include data substituted from the Jasper Golf and Jasper Sports monitors for missing days at the Jasper Post Office monitor. If the Jasper Post Office monitor had recorded a sample on the missing day, the value would be similar to that recorded at the Jasper Golf and Jasper Sports monitors.

**Table 6**  
**Summary of Jasper Post Office Data and Alternative Methods for Data Substitution**

	% VALID	Jasper Post Office Data	Alternative Method A	Alternative Method B	Alternative Method C	Alternative Method D	Alternative Method E
1Q 2007	77%	11.87	11.87	11.87	11.87	11.87	11.87
2Q 2007	89%	15.44	15.44	15.44	15.44	15.44	15.44
3Q 2007	88%	17.34	17.34	17.34	17.34	17.34	17.34
4Q 2007	95%	12.39	12.39	12.39	12.39	12.39	12.39
<b>Year 2007 Average</b>		<b>14.26</b>	<b>14.26</b>	<b>14.26</b>	<b>14.26</b>	<b>14.26</b>	<b>14.26</b>
1Q 2008	46%	13.77	25.04	12.90	13.36	13.57	13.31
2Q 2008	73%	12.23	20.27	12.90	11.95	11.94	11.98
3Q 2008	72%	15.52	22.44	15.78	15.65	15.59	15.59
4Q 2008	83%	10.18	10.18	10.18	10.18	10.18	10.18
<b>Year 2008 Average</b>		<b>12.93</b>	<b>19.48</b>	<b>12.94</b>	<b>12.79</b>	<b>12.82</b>	<b>12.77</b>
1Q 2009	100%	12.77	12.77	12.77	12.77	12.77	12.77
2Q 2009	68%	11.70	21.31	12.44	11.70	11.70	11.70
3Q 2009	90%	13.77	13.77	13.77	13.77	13.77	13.77
4Q 2009	87%	11.74	11.74	11.74	11.74	11.74	11.74
<b>Year 2009 Average</b>		<b>12.49</b>	<b>14.90</b>	<b>12.68</b>	<b>12.49</b>	<b>12.49</b>	<b>12.49</b>
<b>3 Year Average (2007-2009)</b>		<b>13.2</b>	<b>16.2</b>	<b>13.3</b>	<b>13.2</b>	<b>13.2</b>	<b>13.2</b>

Yellow highlighted data indicates incomplete valid data return for the quarter.

Gray highlighted data indicates data based on a substitution is over the Annual PM<sub>2.5</sub> Standard.

Red text indicates incomplete data

Blue text indicates a value calculated from an alternative substitution method

Green text indicates incomplete data calculated from an alternative substitution method

Alternative Method A is the average based on substituting highest quarterly max from 2007-2009.

Alternative Method B is the average based on substituting the average from two quarters.

Alternative Method C is the average based on substituting fine particulate matter values from nearby Jasper Sports and Jasper Golf monitors.

Alternative Method D is the average based on substituting fine particulate matter values from nearby Jasper Golf monitor only.

Alternative Method E is the average based on substituting the historical difference between the Jasper Post Office monitor and other SW Indiana monitors.

### **Jasper Post Office Data:**

Average based on no substitution, calculated according to U.S. EPA guidance.

Using this average makes the data incomplete since the required VDR is 75%. The 1st Quarter 2008 VDR is only 46%, the 2nd Quarter 2008 VDR is 73%, the 3rd Quarter 2008 VDR is 72%, and the 2nd Quarter 2009 VDR is 68%. The Guidance states that the incomplete design value of  $13.2 \mu\text{g}/\text{m}^3$  is still identified as the monitor's true design value.

The alternative method substitution procedures listed below for data below the required 75% VDR are conservative mechanisms to ascertain the likelihood that a site would meet or not meet the standards if the site had met the 75% criteria. The incomplete design value identified as the Jasper Post Office Data ( $13.2 \mu\text{g}/\text{m}^3$ ) is indicative of the area's air quality and the recalculated design values explained below provide additional weight of evidence to support this conclusion.

### **Data Substitutions—Alternative Methods A through E**

#### **Alternative Method A:**

Average based on substituting highest quarterly max value at the Jasper Post Office monitor from 2007 through 2009 for a particular year. According to the Guidance, this is the suggested method for substitution to replace missing data. The highest value that occurred in the 1st Quarter of 2007 through 2009 ( $34.7 \mu\text{g}/\text{m}^3$  on February 21, 2007) was substituted for any day that had missing data in the 1st Quarter of 2008. The highest value in the 2nd Quarter of 2007 through 2009 ( $41.5 \mu\text{g}/\text{m}^3$  on May 26, 2007) was substituted for any day that had missing data in the 2nd Quarter of 2008. The highest value in the 3rd Quarter of 2007 through 2009 ( $40.0 \mu\text{g}/\text{m}^3$  on July 26, 2007) was substituted for any day that had missing data in the 3rd Quarter of 2008. The highest value in the 2nd Quarter of 2007 through 2009 ( $41.5 \mu\text{g}/\text{m}^3$  on May 26, 2007) was also substituted for any day that had missing data in the 2nd Quarter of 2009. With the large amount of data substituted in the years 2008 and 2009, using the highest quarterly max values produces a very high three-year average, over the Annual  $\text{PM}_{2.5}$  standard.

#### **Alternative Method B:**

Average based on substituting the average from two quarters at the Jasper Post Office monitor for any day that had missing data in a quarter. This data substitution method is not covered in the Guidance. However, the data provides weight of evidence that the Jasper Post Office monitoring values are similar to the quarterly and annual averages listed in Table 2 for the Jasper Golf and Jasper Sports monitors. The data values derived from this substitution are very similar to the quarterly and annual averages at the Jasper Golf and Jasper Sports monitors.

Given the large number of substitutions, there are enough values to provide a robust average for assessing air quality. 1st Quarter values from the Jasper Post Office monitor for 2007 and 2009 were averaged ( $12.15 \mu\text{g}/\text{m}^3$ ) and substituted for any day that had missing data in the 1st Quarter of 2008. 2nd Quarter values from the Jasper Post Office monitor for 2007 and 2009 were averaged ( $14.65 \mu\text{g}/\text{m}^3$ ) and substituted for any day that had missing data in the 2nd Quarter of 2008. 3rd Quarter values from the Jasper Post Office monitor for 2007 and 2009 were averaged ( $16.44 \mu\text{g}/\text{m}^3$ ) and substituted for any day that had missing data in the 3rd Quarter of 2008. 2nd Quarter values from the Jasper Post Office monitor for 2007 and 2008 were averaged ( $13.98 \mu\text{g}/\text{m}^3$ ) and substituted for any day that had missing data in the 2nd Quarter of 2009. This method produces a design value under the NAAQS and very similar to the first scenario, "Jasper Post Office Data."

### Alternative Method C:

Average based on substituting fine particulate matter values from nearby monitors (Jasper Golf and Jasper Sports monitors). The higher of the two values at the Jasper Golf monitor or the Jasper Sports monitor was substituted for each day that had missing data at the Jasper Post Office monitor. This was only done for the first three quarters of the year 2008 because the Jasper Golf and Jasper sports monitors were discontinued at the end of 2008. VDR for the 4<sup>th</sup> Quarter of 2008 for the Jasper Post Office is acceptable and no data was substituted for this quarter. Although the VDRs for the 1<sup>st</sup> Quarter (63% after substitution), 2<sup>nd</sup> Quarter (73% after substitution), and 3<sup>rd</sup> Quarter (72% after substitution) for 2008 are still below 75%, using this average provides a value that is exactly the same as the true design value identified by the “Jasper Post Office Data” scenario. Table 7 below lists the daily values for each of the three Jasper monitors in 2008. The highlighted values for the Jasper Golf and Jasper Sports monitors show which value for that day was used as substitution for the missing data at the Jasper Post Office monitor.

**Table 7**  
**Daily Values for Jasper Monitors in 2008**

**Note: AQ is Collection Error, AN is Machine Malfunction, AJ is Filter Damage, and AV is Power Failure.**

Date	Jasper Post Office	Jasper Golf	Jasper Sports	Date	Jasper Post Office	Jasper Golf	Jasper Sports
1/1/2008	14.8	19.0	14.1	2/1/2008	AN		
1/2/2008	AQ			2/2/2008	AN		
1/3/2008	14.6			2/3/2008	AN	16.1	AN
1/4/2008	AN	11.5	11.1	2/4/2008	AN		
1/5/2008	AN			2/5/2008	6.6		
1/6/2008	AN			2/6/2008	4.1	4.5	3.2
1/7/2008	AN	6.4	6.5	2/7/2008	8.9		
1/8/2008	AV			2/8/2008	16.2		
1/9/2008	AJ			2/9/2008	6.1	6.9	6.1
1/10/2008	8.9	10.4	9.2	2/10/2008	AN		
1/11/2008	15.4			2/11/2008	AN		
1/12/2008	18.3			2/12/2008	AN	13.9	11.7
1/13/2008	AJ	AN	20.2	2/13/2008	AN		
1/14/2008	11.1			2/14/2008	AN		
1/15/2008	11.8			2/15/2008	AN	AN	19.2
1/16/2008	11.2	13.7	11.4	2/16/2008	AN		
1/17/2008	15.8			2/17/2008	AN		
1/18/2008	7.8			2/18/2008	AN	AN	7.0
1/19/2008	6.4	8.7	6.0	2/19/2008	AN		
1/20/2008	8.4			2/20/2008	10.8		
1/21/2008	10.7			2/21/2008	19.6	17.6	16.3
1/22/2008	15.0	14.6	14.0	2/22/2008	21.5		
1/23/2008	26.1			2/23/2008	31.7		
1/24/2008	AV			2/24/2008	27.2	28.3	26.3
1/25/2008	AV	12.9	AN	2/25/2008	23.2		
1/26/2008	AV			2/26/2008	13.8		
1/27/2008	AV			2/27/2008	9.9	11.3	10.5
1/28/2008	AV	16.0	AN	2/28/2008	14.2		
1/29/2008	AQ			2/29/2008	AN		
1/30/2008	9			3/1/2008	AN	AN	3.8
1/31/2008	AQ	10.1	10.3	3/2/2008	AN		

**Note: AQ is Collection Error, AN is Machine Malfunction, AJ is Filter Damage, and AV is Power Failure.**

Date	Jasper Post Office	Jasper Golf	Jasper Sports	Date	Jasper Post Office	Jasper Golf	Jasper Sports
3/3/2008	AN			4/20/2008	14.2		
3/4/2008	AN	AN	4.0	4/21/2008	17.3	AN	15.7
3/5/2008	AN			4/22/2008	AQ	17.1	
3/6/2008	AN			4/23/2008	18.2		
3/7/2008	AN	13.9	15.2	4/24/2008	19.0	19.3	19.4
3/8/2008	AN			4/25/2008	17.3		
3/9/2008	AN			4/26/2008	5.7		
3/10/2008	AN	AN	AN	4/27/2008	7.9	7.4	7.9
3/11/2008	22.6			4/28/2008	AN		
3/12/2008	18.5			4/29/2008	12.1		
3/13/2008	6.2	7.6	7.2	4/30/2008	11.4	11.2	11.5
3/14/2008	12.4			5/1/2008	15.2		
3/15/2008	13.5	11.3		5/2/2008	13.0		
3/16/2008	12.5	11.9	12.4	5/3/2008	7.2	7.6	AN
3/17/2008	12.2	13.9		5/4/2008	6.5		
3/18/2008	16.4	14.2		5/5/2008	11.7		
3/19/2008	7.6	7.4	7.2	5/6/2008	15.7	16.0	AN
3/20/2008	AN			5/7/2008	15.3		
3/21/2008	8.6			5/8/2008	13.8		
3/22/2008	AN	AQ	AN	5/9/2008	18.2	17.3	17.8
3/23/2008	AN			5/10/2008	10.2		
3/24/2008	AN			5/11/2008	AN		
3/25/2008	AN	AQ	AN	5/12/2008	AN	6.0	7.0
3/26/2008	AN			5/13/2008	AN		
3/27/2008	14.2			5/14/2008	18.6		
3/28/2008	AJ	7.7	AN	5/15/2008	15.3	11.9	14.3
3/29/2008	AJ			5/16/2008	6.1		
3/30/2008	14.4			5/17/2008	9.1		
3/31/2008	AQ	19.1	AN	5/18/2008	7.5	7.2	7.8
4/1/2008	AQ			5/19/2008	6.1		
4/2/2008	6.5			5/20/2008	9.2		
4/3/2008	11.0	AN	10.3	5/21/2008	8.6	7.9	7.3
4/4/2008	9.8			5/22/2008	10.5		
4/5/2008	AJ			5/23/2008	9.0		
4/6/2008	15.8	AN	14.6	5/24/2008	10.2	9.5	11.2
4/7/2008	15.1			5/25/2008	10.6		
4/8/2008	19.2			5/26/2008	9.9		
4/9/2008	7.7	AN	8.6	5/27/2008	18.5	18.2	AN
4/10/2008	13.8			5/28/2008	AN		
4/11/2008	5.5			5/29/2008	11.6		
4/12/2008	AN	3.9	3.4	5/30/2008	20.3	21.6	22.9
4/13/2008	AN			5/31/2008	11.1		
4/14/2008	AN			6/1/2008	12.2		
4/15/2008	7.4	7.8	7.6	6/2/2008	17.3	17.7	AM
4/16/2008	10.7			6/3/2008	15.0		
4/17/2008	16.4			6/4/2008	10.9		
4/18/2008	13.9	AN	13.2	6/5/2008	10.3	10.2	AM
4/19/2008	4.9			6/6/2008	9.9		

**Note: AQ is Collection Error, AN is Machine Malfunction, AJ is Filter Damage, and AV is Power Failure.**

Date	Jasper Post Office	Jasper Golf	Jasper Sports	Date	Jasper Post Office	Jasper Golf	Jasper Sports
6/7/2008	AN			7/25/2008	15.1		
6/8/2008	AN	AV	AN	7/26/2008	19.2	19.0	19.9
6/9/2008	AN			7/27/2008	23.4		23.4
6/10/2008	AN			7/28/2008	19.5		21.1
6/11/2008	6.9	6.9	6.7	7/29/2008	20.1	21.2	19.9
6/12/2008	AN			7/30/2008	8.7		
6/13/2008	15.1			7/31/2008	16.1		
6/14/2008	14.4	13.9	12.3	8/1/2008	20.6	19.6	18.6
6/15/2008	17.5			8/2/2008	13.2		
6/16/2008	8.4			8/3/2008	AN		
6/17/2008	7.8	7.5	7.8	8/4/2008	AN	21.8	21.2
6/18/2008	AN			8/5/2008	AN		
6/19/2008	12.3			8/6/2008	14.1		
6/20/2008	15.0	17.2	13.7	8/7/2008	10.8	10.3	10.3
6/21/2008	AN			8/8/2008	6.2		
6/22/2008	AN			8/9/2008	11.6		
6/23/2008	AN	7.1	AM	8/10/2008	13.0	12.7	12.9
6/24/2008	AN			8/11/2008	5.3		
6/25/2008	17.8			8/12/2008	13.3		
6/26/2008	16.8	16.9	17.5	8/13/2008	17.7	16.4	17.8
6/27/2008	AN			8/14/2008	18.7		
6/28/2008	AN			8/15/2008	12.4		
6/29/2008	AN	6.1	AN	8/16/2008	8.2	6.9	8.2
6/30/2008	AN			8/17/2008	11.1		
7/1/2008	10.9			8/18/2008	21.7		
7/2/2008	14.7	14.5	15.1	8/19/2008	AN	21.4	AN
7/3/2008	11.7			8/20/2008	AN		
7/4/2008	17.1			8/21/2008	26.7		
7/5/2008	18.1	17.3	16.0	8/22/2008	AN	23.4	AN
7/6/2008	21.5			8/23/2008	AN		
7/7/2008	21.9			8/24/2008	AN		
7/8/2008	17.1	15.7	16.6	8/25/2008	AN	12.1	12.7
7/9/2008	AQ			8/26/2008	14.4		
7/10/2008	9.2			8/27/2008	10.8		
7/11/2008	13.2	13.2	11.9	8/28/2008	20.6	AM	20.1
7/12/2008	13.1			8/29/2008	29.5		
7/13/2008	5.2			8/30/2008	14.5		
7/14/2008	7.7	7.5	6.8	8/31/2008	24.3	AM	24.3
7/15/2008	13.3			9/1/2008	19.7		
7/16/2008	21.4			9/2/2008	22.3		
7/17/2008	22.2	21.2	AN	9/3/2008	26.5	24.4	26
7/18/2008	26.8			9/4/2008	AN		
7/19/2008	30.5			9/5/2008	AN		
7/20/2008	24.7	25.0	AN	9/6/2008	AN	9.6	11.0
7/21/2008	19.8			9/7/2008	AN		
7/22/2008	8.7			9/8/2008	AN		
7/23/2008	9.9	9.3	10.2	9/9/2008	AN	7.5	8.7
7/24/2008	11.4			9/10/2008	AN		



**Note: AQ is Collection Error, AN is Machine Malfunction, AJ is Filter Damage, and AV is Power Failure.**

Date	Jasper Post Office	Jasper Golf	Jasper Sports	Date	Jasper Post Office	Jasper Golf	Jasper Sports
9/11/2008	20.2			9/21/2008	AN	20.1	22.1
9/12/2008	12.4	12.3	12.6	9/22/2008	AN		
9/13/2008	10.7			9/23/2008	AN		
9/14/2008	7.6			9/24/2008	AQ	20.1	20.6
9/15/2008	7.8	8.0	AN	9/25/2008	15.9		
9/16/2008	7.8			9/26/2008	AN		
9/17/2008	8.2			9/27/2008	AN	8.5	9.2
9/18/2008	10.0	8.0	9.7	9/28/2008	AN		
9/19/2008	14.8			9/29/2008	AN		
9/20/2008	AN			9/30/2008	9.8	9.6	10.4

### **Alternative Method D:**

Average based on substituting fine particulate matter values from the nearby Jasper Golf monitor. This method uses the one-in-three day sampling schedule – only the days from this schedule are used from the data collected by the Jasper Post Office monitor. Method C differs from this because it retains the daily sampling schedule. Data from the Jasper Golf monitor was substituted for each day that had missing data at the Jasper Post Office. This was only done for the first three quarters of 2008 because the Jasper Golf monitor was discontinued at the end of 2008. The 4<sup>th</sup> Quarter of 2008 for the Jasper Post Office monitor met the required VDR and no data was substituted for this quarter. The Jasper Golf monitor is the only one of the three Jasper monitors that had greater than 75% VDR for each quarter in 2008. The 1<sup>st</sup> and 2<sup>nd</sup> Quarters in 2008 for the Jasper Sports monitor are incomplete. Substituting the data from the Jasper Golf monitor is the cleanest and most accurate method to assess actual air quality since the Jasper Golf monitor had acceptable VDR in each quarter of 2008. Although the VDR for the 1<sup>st</sup> Quarter (57% after substitution) for 2008 is still too low, using this average provides a value that is exactly the same as the true design value identified by the “Jasper Post Office Data” scenario. Table 7 above lists the daily values for each of the three Jasper monitors in the year 2008.

### **Alternative Method E:**

Average based on substituting the historical difference between the Jasper Post Office monitor and other nearby southwest Indiana monitors including Dale (Spencer County), Evansville Civic Center (Vanderburgh County), Evansville Mill Road (Vanderburgh County) and University of Evansville (Vanderburgh County). The year 2008 was the first year that the Jasper Post Office monitor had an incomplete VDR in a quarter. IDEM looked at the 2005 through 2007 data to compare the historical difference between the Jasper Post Office monitor and other nearby southwest Indiana monitors. The nearby Oakland City (Gibson County) monitor was not used in this comparison because it did not start until January 18, 2008.

The substitutions were made for the first three quarters of 2008 because the Jasper Sports and Jasper Golf monitors were discontinued at the end of 2008. The 4<sup>th</sup> Quarter of 2008 for the Jasper Post Office monitor had the required VDR and no data was substituted for this quarter. The 1<sup>st</sup> Quarter average for the years 2005 through 2007 at the Jasper Post Office monitor was compared to the 1<sup>st</sup> Quarter average at the Dale, Evansville Civic Center, Evansville Mill Road, and University of Evansville monitors. This was also done for the 2<sup>nd</sup> and 3<sup>rd</sup> Quarters for each of the monitors. The percent difference between the Jasper Post Office monitor and the Dale, Evansville Civic Center, Evansville Mill Road, and University

of Evansville monitors was calculated. Data from the monitor with the highest percent difference was then used as a substitute for the 2008 data missing at the Jasper Post Office monitor.

Table 8 below lists the percent differences between the Jasper Post Office monitor and the nearby Dale, Evansville Civic Center, Evansville Mill Road, and University of Evansville monitors and Table 9 lists the data used for substitution. The 2008 data from the Evansville Civic Center monitor was used for substitution for any missing data at the Jasper Post Office monitor in the 1<sup>st</sup> Quarter 2008. The 2008 data from the University of Evansville monitor was used for substitution for any missing data at the Jasper Post Office monitor in the 2<sup>nd</sup> Quarter of 2008. The 2008 data from the Dale monitor was used for substitution for any missing data at the Jasper Post Office monitor in the 3<sup>rd</sup> Quarter of 2008. Although the VDR for the 1<sup>st</sup> Quarter (65% after substitution) for 2008 is still too low, using this average provides a value that is exactly the same as the true design value identified by the scenario “Jasper Post Office Data.” Reviewing the data used in this substitution also shows that the particulate matter in southwest Indiana is of a regional nature.

**Table 8**  
**Percent Differences for 2005 through 2007 at the Southwest Indiana Monitors**

<b>2005-2007 Average</b>	<b>Jasper Post Office</b>	<b>Dale</b>	<b>Evansville Civic Center</b>	<b>Evansville Mill Road</b>	<b>University of Evansville</b>
1Q	13.16	12.58 (Difference of 0.58 or 4.4%)	12.40 (Difference of 0.76 or 5.7%)	12.80 (Difference of 0.36 or 2.7%)	12.79 (Difference of 0.37 or 2.8%)
2Q	15.25	14.53 (Difference of 0.72 or 4.7%)	14.92 (Difference of 0.33 or 2.1%)	15.61 (Difference of 0.36 or 2.3%)	16.44 (Difference of 1.19 or 7.8%)
3Q	18.84	19.27 (Difference of 0.43 or 2.2%)	18.99 (Difference of 0.15 or 0.7%)	18.51 (Difference of 0.33 or 1.7%)	19.01 (Difference of 0.17 or 0.9%)

**Table 9**  
**Data From Southwest Indiana Monitors Used for Substitution in Alternative Method E**

1 <sup>st</sup> Quarter							
Date	Jasper Post Office	Evansville Civic Center	Evansville Civic Center Value Plus Historical Difference (0.76)	Date	Jasper Post Office	Evansville Civic Center	Evansville Civic Center Value Plus Historical Difference (0.76)
1/1/2008	14.8	10.8		2/16/2008	AN		
1/2/2008	AQ			2/17/2008	AN		
1/3/2008	14.6			2/18/2008	AN	4.1	4.86
1/4/2008	AN	8.8		2/19/2008	AN		
1/5/2008	AN			2/20/2008	10.8		
1/6/2008	AN	5.7	6.46	2/21/2008	19.6	16.3	
1/7/2008	AN			2/22/2008	21.5		
1/8/2008	AV			2/23/2008	31.7		
1/9/2008	AJ			2/24/2008	27.2	21.9	
1/10/2008	8.9	10.1		2/25/2008	23.2		
1/11/2008	15.4			2/26/2008	13.8		
1/12/2008	18.3			2/27/2008	9.9	8.7	
1/13/2008	AJ	17.9	18.66	2/28/2008	14.2		
1/14/2008	11.1			2/29/2008	AN		
1/15/2008	11.8			3/1/2008	AN	4.1	4.86
1/16/2008	11.2	14.6		3/2/2008	AN		
1/17/2008	15.8			3/3/2008	AN		
1/18/2008	7.8			3/4/2008	AN	3.0	3.76
1/19/2008	6.4	6.2		3/5/2008	AN		
1/20/2008	8.4			3/6/2008	AN		
1/21/2008	10.7			3/7/2008	AN	14.5	15.26
1/22/2008	15.0	14.4		3/8/2008	AN		
1/23/2008	26.1			3/9/2008	AN		
1/24/2008	AV			3/10/2008	AN	17.1	17.86
1/25/2008	AV	13.0	13.76	3/11/2008	22.6		
1/26/2008	AV			3/12/2008	18.5		
1/27/2008	AV			3/13/2008	6.2	8.8	
1/28/2008	AV	11.7	12.46	3/14/2008	12.4		
1/29/2008	AQ			3/15/2008	13.5		
1/30/2008	9.0			3/16/2008	12.5	13.9	
1/31/2008	AQ	10.2	10.96	3/17/2008	12.2		
2/1/2008	AN			3/18/2008	16.4		
2/2/2008	AN			3/19/2008	7.6	6.9	
2/3/2008	AN	16.9	17.66	3/20/2008	AN		
2/4/2008	AN			3/21/2008	8.6		
2/5/2008	6.6			3/22/2008	AN	9.6	10.36
2/6/2008	4.1	3.7		3/23/2008	AN		
2/7/2008	8.9			3/24/2008	AN		
2/8/2008	16.2			3/25/2008	AN	9.0	9.76
2/9/2008	6.1	AL		3/26/2008	AN		
2/10/2008	AN			3/27/2008	14.2		
2/11/2008	AN			3/28/2008	AJ	9.4	10.16
2/12/2008	AN	12.5	13.26	3/29/2008	AJ		
2/13/2008	AN			3/30/2008	14.4		
2/14/2008	AN			3/31/2008	AQ	16.7	17.46
2/15/2008	AN	18.8	19.56				

2 <sup>nd</sup> Quarter							
Date	Jasper Post Office	University of Evansville	University of Evansville Value Plus Historical Difference (1.19)	Date	Jasper Post Office	University of Evansville	University of Evansville Value Plus Historical Difference (1.19)
4/1/2008	AQ			5/17/2008	9.1		
4/2/2008	6.5			5/18/2008	7.5	6.6	
4/3/2008	11	10.0		5/19/2008	6.1		
4/4/2008	9.8			5/20/2008	9.2		
4/5/2008	AJ			5/21/2008	8.6	7.7	
4/6/2008	15.8	AN		5/22/2008	10.5		
4/7/2008	15.1			5/23/2008	9		
4/8/2008	19.2			5/24/2008	10.2	11.9	
4/9/2008	7.7	11.5		5/25/2008	10.6		
4/10/2008	13.8			5/26/2008	9.9		
4/11/2008	5.5			5/27/2008	18.5	14.9	
4/12/2008	AN	3.1	4.29	5/28/2008	AN		
4/13/2008	AN			5/29/2008	11.6		
4/14/2008	AN			5/30/2008	20.3	17.7	
4/15/2008	7.4	9.4		5/31/2008	11.1		
4/16/2008	10.7			6/1/2008	12.2		
4/17/2008	16.4			6/2/2008	17.3	13.1	
4/18/2008	13.9	12.9		6/3/2008	15		
4/19/2008	4.9			6/4/2008	10.9		
4/20/2008	14.2			6/5/2008	10.3	8.3	
4/21/2008	17.3	21.8		6/6/2008	9.9		
4/22/2008	AQ			6/7/2008	AN		
4/23/2008	18.2			6/8/2008	AN	9.0	10.19
4/24/2008	19	21.8		6/9/2008	AN		
4/25/2008	17.3			6/10/2008	AN		
4/26/2008	5.7			6/11/2008	6.9	11.9	
4/27/2008	7.9	9.1		6/12/2008	AN		
4/28/2008	AN			6/13/2008	15.1		
4/29/2008	12.1			6/14/2008	14.4	11.2	
4/30/2008	11.4	13.5		6/15/2008	17.5		
5/1/2008	15.2			6/16/2008	8.4		
5/2/2008	13			6/17/2008	7.8	6.7	
5/3/2008	7.2	AN		6/18/2008	AN		
5/4/2008	6.5			6/19/2008	12.3		
5/5/2008	11.7			6/20/2008	15	AN	
5/6/2008	15.7	AN		6/21/2008	AN		
5/7/2008	15.3			6/22/2008	AN		
5/8/2008	13.8			6/23/2008	AN	8.6	9.79
5/9/2008	18.2	AN		6/24/2008	AN		
5/10/2008	10.2			6/25/2008	17.8		
5/11/2008	AN			6/26/2008	16.8	15.9	
5/12/2008	AN	AN		6/27/2008	AN		
5/13/2008	AN			6/28/2008	AN		
5/14/2008	18.6			6/29/2008	AN	5.8	6.99
5/15/2008	15.3	13.8		6/30/2008	AN		
5/16/2008	6.1						

3 <sup>rd</sup> Quarter							
Date	Jasper Post Office	Dale	Dale Value Plus Historical Difference (0.43)	Date	Jasper Post Office	Dale	Dale Value Plus Historical Difference (0.43)
7/1/2008	10.9			8/16/2008	8.2	AN	
7/2/2008	14.7	13.9		8/17/2008	11.1		
7/3/2008	11.7			8/18/2008	21.7		
7/4/2008	17.1			8/19/2008	AN	AN	
7/5/2008	18.1	17.4		8/20/2008	AN		
7/6/2008	21.5			8/21/2008	26.7		
7/7/2008	21.9			8/22/2008	AN	AN	
7/8/2008	17.1	16.4		8/23/2008	AN		
7/9/2008	AQ			8/24/2008	AN		
7/10/2008	9.2			8/25/2008	AN	AN	
7/11/2008	13.2	13.7		8/26/2008	14.4		
7/12/2008	13.1			8/27/2008	10.8		
7/13/2008	5.2			8/28/2008	20.6	20.2	
7/14/2008	7.7	AN		8/29/2008	29.5		
7/15/2008	13.3			8/30/2008	14.5		
7/16/2008	21.4			8/31/2008	24.3	27.2	
7/17/2008	22.2	22.2		9/1/2008	19.7		
7/18/2008	26.8			9/2/2008	22.3		
7/19/2008	30.5			9/3/2008	26.5	AM	
7/20/2008	24.7	24.8		9/4/2008	AN		
7/21/2008	19.8			9/5/2008	AN		
7/22/2008	8.7			9/6/2008	AN	10.9	11.33
7/23/2008	9.9	11.2		9/7/2008	AN		
7/24/2008	11.4			9/8/2008	AN		
7/25/2008	15.1			9/9/2008	AN	9.2	9.63
7/26/2008	19.2	19.8		9/10/2008	AN		
7/27/2008	23.4			9/11/2008	20.2		
7/28/2008	19.5			9/12/2008	12.4	13.4	
7/29/2008	20.1	20.7		9/13/2008	10.7		
7/30/2008	8.7			9/14/2008	7.6		
7/31/2008	16.1			9/15/2008	7.8	8.0	
8/1/2008	20.6	22.9		9/16/2008	7.8		
8/2/2008	13.2			9/17/2008	8.2		
8/3/2008	AN			9/18/2008	10	9.2	
8/4/2008	AN	22.5	22.93	9/19/2008	14.8		
8/5/2008	AN			9/20/2008	AN		
8/6/2008	14.1			9/21/2008	AN	22.2	23.63
8/7/2008	10.8	11.1		9/22/2008	AN		
8/8/2008	6.2			9/23/2008	AN		
8/9/2008	11.6			9/24/2008	AQ	19.5	19.93
8/10/2008	13	14.0		9/25/2008	15.9		
8/11/2008	5.3			9/26/2008	AN		
8/12/2008	13.3			9/27/2008	AN	10.0	10.43
8/13/2008	17.7	19.8		9/28/2008	AN		
8/14/2008	18.7			9/29/2008	AN		
8/15/2008	12.4			9/30/2008	9.8	AJ	

### **Regional Nature of Fine Particle Matter in Southwest Indiana**

Jasper is located in an area of Indiana that is surrounded and impacted by large coal-combustion emissions which contribute to higher fine particle concentrations. Jasper also has a substantial number of small industrial sources and has a busy highway which passes through the middle of town. The three Jasper monitors tracked closely together and the annual averages from 2006 through 2008 were within  $0.8 \mu\text{g}/\text{m}^3$  of each other. On certain days, it appeared that local sources could have an impact, but this impact was generally below  $1.5 \mu\text{g}/\text{m}^3$ . Impacts such as these would be expected in a city with multiple industrial sources. The upwind monitor (Jasper Sports) had a higher annual fine particle concentration than the Jasper Post Office monitor, which indicates that local impacts were not the driving force behind the higher values, and impacts in Dubois County were more regional in nature. Nitrogen oxides ( $\text{NO}_x$ )

and sulfur dioxide (SO<sub>2</sub>) emissions are significant precursors for the formation of fine particle. Emission totals from Dubois, Spencer, and Vanderburgh counties show that Spencer County has the highest NO<sub>x</sub> and SO<sub>2</sub> emissions in the area. Dubois County has the lowest NO<sub>x</sub> emissions and second lowest SO<sub>2</sub> emissions of these counties; yet the measured fine particle concentrations in Dubois County remain high. This points to the transport of fine particle matter into Dubois County from nearby sources. Sources in Dubois County are small emitters and scattered throughout the county. Nearly 90% of the SO<sub>2</sub> emissions in Dubois County are from the Jasper Municipal Electric Utility.

### **Correlation Between Jasper Monitors**

Correlation is a measure of the statistical relationship between two comparable time series. In this case, the Jasper Post Office monitor was compared to the Jasper Golf monitor and to the Jasper Sports monitor. The relationship stated as the correlation coefficient reflects the simultaneous change in value of the pairs of numerical values over time. The correlation coefficient, which lies between the range of -1.00 to +1.00, is a positive or negative probability that the members of a pair relate to each other. A negative reading suggests that one member of the pair consistently moves up while the other moves down. Conversely, a positive reading suggests there is a tendency for the pair to move together in the same direction. The correlation coefficient was calculated between the three Jasper monitors for the years 2006-2008. The correlation coefficient between the Jasper Post Office monitor and the Jasper Golf monitor is 0.98629. The correlation coefficient between the Jasper Post Office monitor and the Jasper Sports monitor is 0.98385. Both of the correlation coefficients are positive numbers very close to 1.00 showing that the Jasper monitors track very close together.

The Guidance states the requirements for data used for comparison with the PM<sub>2.5</sub> NAAQS must be calculated on a site-level basis except for calculations of spatially averaged annual means and spatially averaged annual standard design values calculated in Community Monitoring Zones (CMZs). CMZs allow the installation of multiple sites in an area, as long as it can be shown that they are sampling the same air mass, to use for comparison to the PM<sub>2.5</sub> NAAQS. CMZs have to be approved by U.S. EPA as part of the annual monitoring network plan and Indiana does not have any CMZs in the state. The extra monitors in Jasper (Jasper Sports and Jasper Golf) were established for a special three year study and not intended to be permanent monitors or used as part of a CMZ. However, since there is a high correlation between all three of the Jasper monitors, using the data from the Jasper Sports and Jasper Golf monitoring sites as substitution for the missing data at the Jasper Post Office monitor is as good as using co-located or CMZ site data (if it were available for the Jasper Post Office site). Essentially, all three Jasper monitors are sampling the same air mass and the data are interchangeable. Table 10 below shows the percentage difference on a quarterly basis for the Jasper monitors. IDEM thinks that using the data from the nearby Jasper Sports and Jasper Golf monitoring sites to substitute for the missing Jasper Post Office data provides an accurate assessment of actual air quality in the Jasper area versus using the conservative approach used by U.S. EPA, explained in Alternative Method A, using the highest quarterly max values. Table 11 below shows the 2008 values substituted from the Jasper Sports and Jasper Golf monitoring sites compared to the highest quarterly max values required by the U.S. EPA method. Table 11 shows that for an accurate assessment of the air quality in Jasper, the U.S. EPA method is not a proper substitute when data is available to quantify that inaccuracy.

**Table 10**  
**Percentage Difference for Jasper Monitors**

	<b>Jasper Post Office</b>	<b>Jasper Sports</b>	<b>Jasper Golf</b>
1Q 2006	12.24	13.23* (Difference of 0.99 or 8.0%)	13.57* (Difference of 1.33 or 10.8%)
2Q 2006	13.06	12.74 (Difference of 0.32 or 2.4%)	12.60 (Difference of 0.46 or 3.5%)
3Q 2006	17.94	18.05 (Difference of 0.11 or 0.6%)	17.74 (Difference of 0.20 or 1.1%)
4Q 2006	10.83	10.28 (Difference of 0.55 or 5.0%)	10.84 (Difference of 0.01 or 0.09%)
1Q 2007	11.83	12.11 (Difference of 0.28 or 2.3%)	12.41 (Difference of 0.58 or 4.9%)
2Q 2007	15.75	16.19 (Difference of 0.44 or 2.7%)	16.42 (Difference of 0.67 or 4.2%)
3Q 2007	17.31	16.88 (Difference of 0.43 or 2.4%)	17.81 (Difference of 0.5 or 2.8%)
4Q 2007	12.39	11.94 (Difference of 0.45 or 3.6%)	12.23 (Difference of 0.16 or 1.2%)
1Q 2008	13.75	10.75 (Difference of 3.0 or 21.8%)	12.77 (Difference of 0.98 or 7.1%)
2Q 2008	12.33	11.81 (Difference of 0.52 or 4.2%)	11.65 (Difference of 0.68 or 5.5%)
3Q 2008	15.22	15.60 (Difference of 0.38 or 2.4%)	15.09 (Difference of 0.13 or 0.8%)
4Q 2008	10.32	9.71 (Difference of 0.61 or 5.9%)	10.67 (Difference of 0.35 or 3.3%)

\*Based on data from February and March only since the monitor did not begin until February 1, 2006

**Table 11**  
**Jasper Monitoring Data compared to Highest Quarterly Max Values**

Date	Jasper Post Office	Jasper Golf	Jasper Sports	Highest 1st Quarter Max	Date	Jasper Post Office	Jasper Golf	Jasper Sports	Highest 1st Quarter Max
1/6/2008	AN				2/18/2008	AN	AN	7.0	34.7
1/7/2008	AN	6.4	6.5	34.7	2/19/2008	AN			
1/8/2008	AV				2/20/2008	10.8			
1/9/2008	AJ				2/21/2008	19.6	17.6	16.3	34.7
1/10/2008	8.9	10.4	9.2	34.7	2/22/2008	21.5			
1/11/2008	15.4				2/23/2008	31.7			
1/12/2008	18.3				2/24/2008	27.2	28.3	26.3	34.7
1/13/2008	AJ	AN	20.2	34.7	2/25/2008	23.2			
1/14/2008	11.1				2/26/2008	13.8			
1/15/2008	11.8				2/27/2008	9.9	11.3	10.5	34.7
1/16/2008	11.2	13.7	11.4	34.7	2/28/2008	14.2			
1/17/2008	15.8				2/29/2008	AN			
1/18/2008	7.8				3/1/2008	AN	AN	3.8	34.7
1/19/2008	6.4	8.7	6.0	34.7	3/2/2008	AN			
1/20/2008	8.4				3/3/2008	AN			
1/21/2008	10.7				3/4/2008	AN	AN	4.0	34.7
1/22/2008	15.0	14.6	14.0	34.7	3/5/2008	AN			
1/23/2008	26.1				3/6/2008	AN			
1/24/2008	AV				3/7/2008	AN	13.9	15.2	34.7
1/25/2008	AV	12.9	AN	34.7	3/8/2008	AN			
1/26/2008	AV				3/9/2008	AN			
1/27/2008	AV				3/10/2008	AN	AN	AN	34.7
1/28/2008	AV	16.0	AN	34.7	3/11/2008	22.6			
1/29/2008	AQ				3/12/2008	18.5			
1/30/2008	9				3/13/2008	6.2	7.6	7.2	34.7
1/31/2008	AQ	10.1	10.3	34.7	3/14/2008	12.4			
2/1/2008	AN				3/15/2008	13.5	11.3		
2/2/2008	AN				3/16/2008	12.5	11.9	12.4	34.7
2/3/2008	AN	16.1	AN	34.7	3/17/2008	12.2	13.9		
2/4/2008	AN				3/18/2008	16.4	14.2		
2/5/2008	6.6				3/19/2008	7.6	7.4	7.2	34.7
2/6/2008	4.1	4.5	3.2	34.7	3/20/2008	AN			
2/7/2008	8.9				3/21/2008	8.6			
2/8/2008	16.2				3/22/2008	AN	AQ	AN	34.7
2/9/2008	6.1	6.9	6.1	34.7	3/23/2008	AN			
2/10/2008	AN				3/24/2008	AN			
2/11/2008	AN				3/25/2008	AN	AQ	AN	34.7
2/12/2008	AN	13.9	11.7	34.7	3/26/2008	AN			
2/13/2008	AN				3/27/2008	14.2			
2/14/2008	AN				3/28/2008	AJ	7.7	AN	34.7
2/15/2008	AN	AN	19.2	34.7	3/29/2008	AJ			
2/16/2008	AN				3/30/2008	14.4			
2/17/2008	AN				3/31/2008	AQ	19.1	AN	34.7

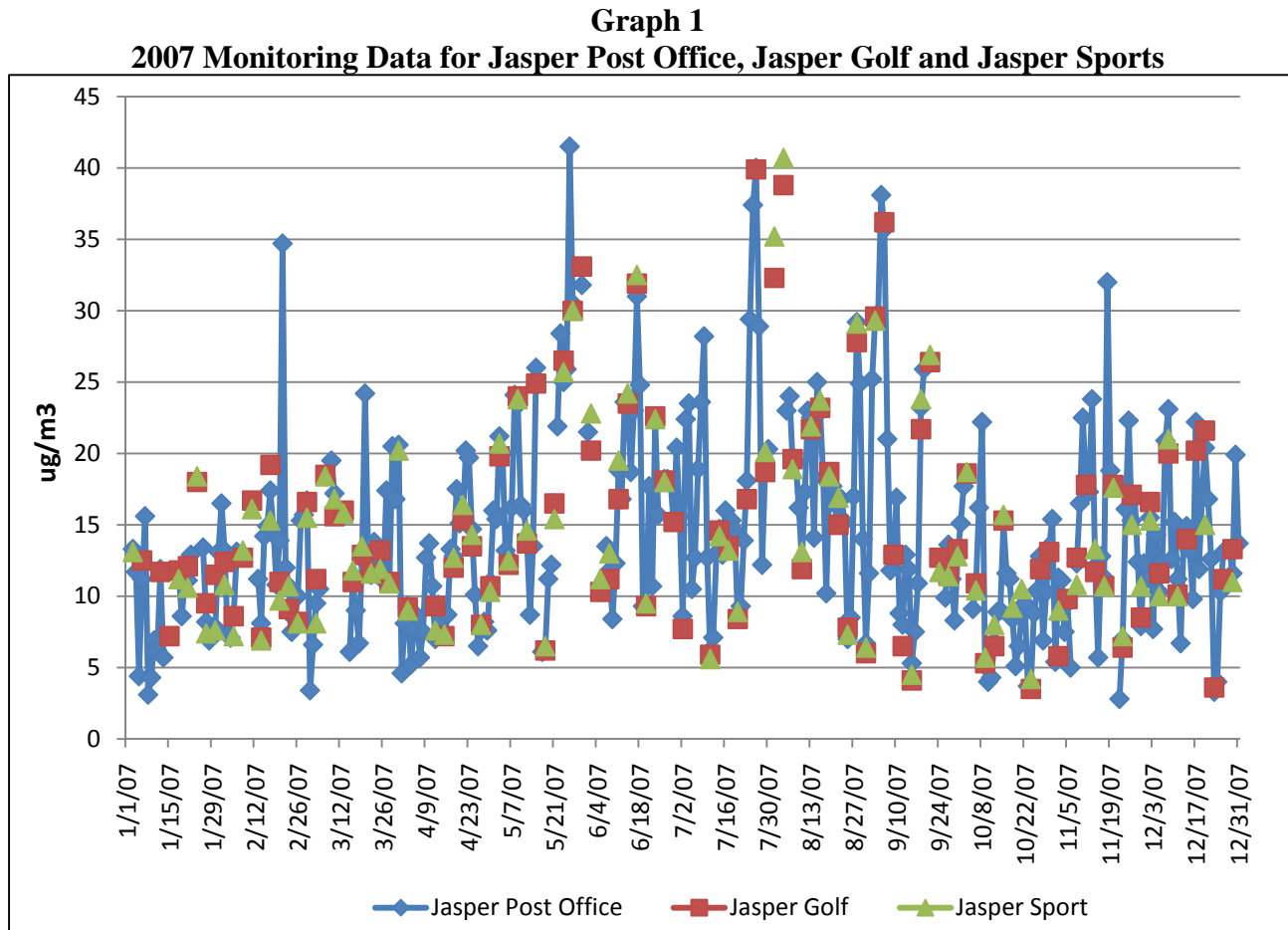


Date	Jasper Post Office	Jasper Golf	Jasper Sports	Highest 2 <sup>nd</sup> Quarter Max	Date	Jasper Post Office	Jasper Golf	Jasper Sports	Highest 2 <sup>nd</sup> Quarter Max
4/1/2008	AQ				5/17/2008	9.1			
4/2/2008	6.5				5/18/2008	7.5	7.2	7.8	41.5
4/3/2008	11.0	AN	10.3	41.5	5/19/2008	6.1			
4/4/2008	9.8				5/20/2008	9.2			
4/5/2008	AJ				5/21/2008	8.6	7.9	7.3	41.5
4/6/2008	15.8	AN	14.6	41.5	5/22/2008	10.5			
4/7/2008	15.1				5/23/2008	9.0			
4/8/2008	19.2				5/24/2008	10.2	9.5	11.2	41.5
4/9/2008	7.7	AN	8.6	41.5	5/25/2008	10.6			
4/10/2008	13.8				5/26/2008	9.9			
4/11/2008	5.5				5/27/2008	18.5	18.2	AN	41.5
4/12/2008	AN	3.9	3.4	41.5	5/28/2008	AN			
4/13/2008	AN				5/29/2008	11.6			
4/14/2008	AN				5/30/2008	20.3	21.6	22.9	41.5
4/15/2008	7.4	7.8	7.6	41.5	5/31/2008	11.1			
4/16/2008	10.7				6/1/2008	12.2			
4/17/2008	16.4				6/2/2008	17.3	17.7	AM	41.5
4/18/2008	13.9	AN	13.2	41.5	6/3/2008	15.0			
4/19/2008	4.9				6/4/2008	10.9			
4/20/2008	14.2				6/5/2008	10.3	10.2	AM	41.5
4/21/2008	17.3	AN	15.7	41.5	6/6/2008	9.9			
4/22/2008	AQ	17.1			6/7/2008	AN			
4/23/2008	18.2				6/8/2008	AN	AV	AN	41.5
4/24/2008	19.0	19.3	19.4	41.5	6/9/2008	AN			
4/25/2008	17.3				6/10/2008	AN			
4/26/2008	5.7				6/11/2008	6.9	6.9	6.7	41.5
4/27/2008	7.9	7.4	7.9	41.5	6/12/2008	AN			
4/28/2008	AN				6/13/2008	15.1			
4/29/2008	12.1				6/14/2008	14.4	13.9	12.3	41.5
4/30/2008	11.4	11.2	11.5	41.5	6/15/2008	17.5			
5/1/2008	15.2				6/16/2008	8.4			
5/2/2008	13.0				6/17/2008	7.8	7.5	7.8	41.5
5/3/2008	7.2	7.6	AN	41.5	6/18/2008	AN			
5/4/2008	6.5				6/19/2008	12.3			
5/5/2008	11.7				6/20/2008	15.0	17.2	13.7	41.5
5/6/2008	15.7	16.0	AN	41.5	6/21/2008	AN			
5/7/2008	15.3				6/22/2008	AN			
5/8/2008	13.8				6/23/2008	AN	7.1	AM	41.5
5/9/2008	18.2	17.3	17.8	41.5	6/24/2008	AN			
5/10/2008	10.2				6/25/2008	17.8			
5/11/2008	AN				6/26/2008	16.8	16.9	17.5	41.5
5/12/2008	AN	6.0	7.0	41.5	6/27/2008	AN			
5/13/2008	AN				6/28/2008	AN			
5/14/2008	18.6				6/29/2008	AN	6.1	AN	41.5
5/15/2008	15.3	11.9	14.3	41.5	6/30/2008	AN			
5/16/2008	6.1								

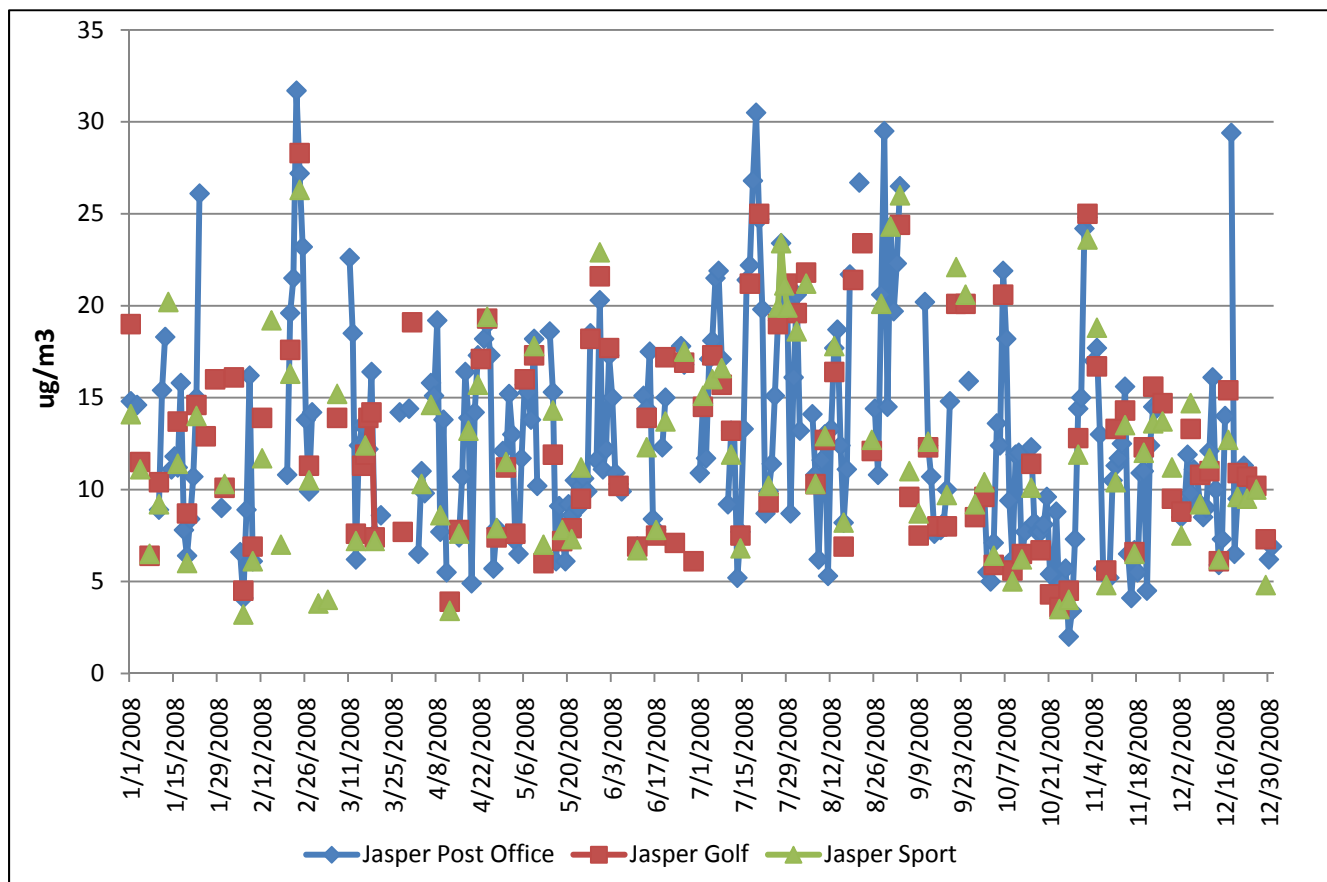
Date	Jasper Post Office	Jasper Golf	Jasper Sports	Highest 3 <sup>rd</sup> Quarter Max	Date	Jasper Post Office	Jasper Golf	Jasper Sports	Highest 3 <sup>rd</sup> Quarter Max
7/1/2008	10.9				8/16/2008	8.2	6.9	8.2	40.0
7/2/2008	14.7	14.5	15.1	40.0	8/17/2008	11.1			
7/3/2008	11.7				8/18/2008	21.7			
7/4/2008	17.1				8/19/2008	AN	21.4	AN	40.0
7/5/2008	18.1	17.3	16.0	40.0	8/20/2008	AN			
7/6/2008	21.5				8/21/2008	26.7			
7/7/2008	21.9				8/22/2008	AN	23.4	AN	40.0
7/8/2008	17.1	15.7	16.6	40.0	8/23/2008	AN			
7/9/2008	AQ				8/24/2008	AN			
7/10/2008	9.2				8/25/2008	AN	12.1	12.7	40.0
7/11/2008	13.2	13.2	11.9	40.0	8/26/2008	14.4			
7/12/2008	13.1				8/27/2008	10.8			
7/13/2008	5.2				8/28/2008	20.6	AM	20.1	40.0
7/14/2008	7.7	7.5	6.8	40.0	8/29/2008	29.5			
7/15/2008	13.3				8/30/2008	14.5			
7/16/2008	21.4				8/31/2008	24.3	AM	24.3	40.0
7/17/2008	22.2	21.2	AN	40.0	9/1/2008	19.7			
7/18/2008	26.8				9/2/2008	22.3			
7/19/2008	30.5				9/3/2008	26.5	24.4	26	40.0
7/20/2008	24.7	25.0	AN	40.0	9/4/2008	AN			
7/21/2008	19.8				9/5/2008	AN			
7/22/2008	8.7				9/6/2008	AN	9.6	11.0	40.0
7/23/2008	9.9	9.3	10.2	40.0	9/7/2008	AN			
7/24/2008	11.4				9/8/2008	AN			
7/25/2008	15.1				9/9/2008	AN	7.5	8.7	40.0
7/26/2008	19.2	19.0	19.9	40.0	9/10/2008	AN			
7/27/2008	23.4		23.4		9/11/2008	20.2			
7/28/2008	19.5		21.1		9/12/2008	12.4	12.3	12.6	40.0
7/29/2008	20.1	21.2	19.9	40.0	9/13/2008	10.7			
7/30/2008	8.7				9/14/2008	7.6			
7/31/2008	16.1				9/15/2008	7.8	8.0	AN	40.0
8/1/2008	20.6	19.6	18.6	40.0	9/16/2008	7.8			
8/2/2008	13.2				9/17/2008	8.2			
8/3/2008	AN				9/18/2008	10.0	8.0	9.7	40.0
8/4/2008	AN	21.8	21.2	40.0	9/19/2008	14.8			
8/5/2008	AN				9/20/2008	AN			
8/6/2008	14.1				9/21/2008	AN	20.1	22.1	40.0
8/7/2008	10.8	10.3	10.3	40.0	9/22/2008	AN			
8/8/2008	6.2				9/23/2008	AN			
8/9/2008	11.6				9/24/2008	AQ	20.1	20.6	40.0
8/10/2008	13.0	12.7	12.9	40.0	9/25/2008	15.9			
8/11/2008	5.3				9/26/2008	AN			
8/12/2008	13.3				9/27/2008	AN	8.5	9.2	40.0
8/13/2008	17.7	16.4	17.8	40.0	9/28/2008	AN			
8/14/2008	18.7				9/29/2008	AN			
8/15/2008	12.4				9/30/2008	9.8	9.6	10.4	40.0

## Time Series

PM<sub>2.5</sub> values for the years 2007-2008 at all three Jasper monitors were plotted to show comparison over time and to see how closely the monitors tracked together. Given the fact that the monitors are in close proximity to each other, the three monitors track together very well. As illustrated in Graphs 1 and 2 below, the PM<sub>2.5</sub> values in 2007 and 2008 from monitor to monitor do not show much variation and the relative differences among the sites are similar. That is, when one monitor value is high, the other monitor values are high and vice versa.



**Graph 2**  
**2008 Monitoring Data for Jasper Post Office, Jasper Golf and Jasper Sports**



## **Conclusions**

The 2007-2009 PM<sub>2.5</sub> three-year average of 13.2  $\mu\text{g}/\text{m}^3$  for the Jasper Post Office monitor is incomplete; it is missing the required amount of data in the first, second and third quarters of 2008 and the second quarter of 2009. U.S. EPA guidance states that the incomplete design value of 13.2  $\mu\text{g}/\text{m}^3$ , is still identified as the monitor's true design value.

U.S. EPA guidance recommends substituting the quarterly maximum value (Alternative Method A) which is the worst-case scenario and results in the design value being above the standard. However, IDEM does not believe that the substitutions in Alternative Methods A necessarily result in a value representative of the PM<sub>2.5</sub> concentrations monitored at the Jasper Post Office site. Since the Jasper monitors have such a high correlation and track well together IDEM thinks Alternative Method C, using the day-specific substitution from nearby Jasper Sports and Jasper Golf monitors, best represents the true value for the Jasper Post Office monitor had it collected the required 75 % VDR. The other Alternatives provide additional weight of evidence to show that the Jasper Post Office value of 13.2  $\mu\text{g}/\text{m}^3$  is reflective of air quality in the entire southwest Indiana region.

# **APPENDIX H**

## **Area Source Standard Operating Procedure (SOP)**

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**Area Source Inventory**  
S-006-OAQ-R-MO-08-S-R1  
**Standard Operating Procedure**

**Office:** Office of Air Quality  
**Branch:** Air Programs Branch  
**Section:** Technical Support and Modeling Section

**Revised:** 02/27/2008 **Revision Cycle:** 2 years  
**Effective date:** 02/15/07

**Scope of operations**

This SOP is to identify source categories and develop emissions not calculated in point source inventories. This data is compiled every three years as mandated by EPA.

**Scope of applicability**

This SOP is for the Senior Environmental Manager and the Environmental Manager in the Emissions Group.

**Authorized Signatures**

I approve and authorize this Standard Operating Procedure:

**Branch Chief**

Scott Deloney  
Typed/Printed

  
Signature

3/12/08  
Date

**Section Chief**

Ken Ritter  
Typed/Printed

  
Signature

3/10/08  
Date

**Section QA Contact**

Michele Boner  
Typed/Printed

  
Signature

3/10/08  
Date

**Branch QA Coordinator**

Chris Pedersen  
Typed/Printed

  
Signature

3-10-08  
Date


**Author**

Michele Boner  
Typed/Printed

  
Signature

3/10/08  
Date

This Standard Operating Procedure is consistent with agency requirements.

  
Indiana Department of Environmental Management  
Quality Assurance Program  
Planning and Assessment

3-17-08  
Date

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## 1. Overview work flow chart

The process described is not part of a larger system and does not need an Overview work flow chart.

## 2. Definitions

**AP-42** – Compilation of Air Pollutant Emission Factors AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources (January 1995) plus Supplements A – F (Updates 2001 – 2004). AP-42 can be obtained at [www.epa.gov/ttn/chief/ap42/](http://www.epa.gov/ttn/chief/ap42/).

**Area Sources** - A collection of similar emission units within a geographic area that collectively represent individual sources that are small and numerous and have not been inventoried as a specific point, mobile, or biogenic source.

**Authorized** - Established by official authority and usage; as with a policy, standard operating procedure (SOP), or quality assurance project plan (QAPP) that is signed and dated.

**EIIP (Emission Inventory Improvement Program)** -The EIIP is an EPA program established in 1993 to promote the development and use of standard procedures for collecting, calculating, storing, reporting, and sharing air emissions data.

**Emission Factors** - An emission factor is the estimate of the quantity of pollutant released to the atmosphere (because of some operation or activity such as combustion or industrial production) divided by the level of that activity.

**Process** - The term “process” used when describing area sources is used to name an operation or activity that produces emissions.

**NEI** - National Emission Inventory Air Pollutant Emission Trends, U.S. EPA.

**Standard Industrial Classification (SIC) Code** - A Standard Industrial Classification code from the series of codes devised by the United States Office of Management and Budget (OMB) to classify establishments according to the type of economic activity in which they engage.

**Source Classification Code (SCC)** - Source Classification Code is a process-level code that describes the equipment or operation emitting pollutants.

### 3. Roles

Title	# of Staff	Experience	Qualifications	Location
Senior Environmental Manager	1	N/A	MS ACCESS, Emission Inventories and familiarity with the EIIP	Air Programs Branch
Environmental Manager	1	N/A	MS ACCESS, Emission Inventories and familiarity with the EIIP	Air Programs Branch

#### Responsibilities:

##### Senior Environmental Manager

Oversees work of the Environmental Manager and ensures that all goals are met. The Senior Environmental Manager also does the final upload to the NEI.

##### Environmental Manager

The Environmental Manager calculates the Area Source Emissions using the EIIP or other EPA guidance as provided. The Environmental Manager is also responsible for updating the SOP for the Emissions Group.

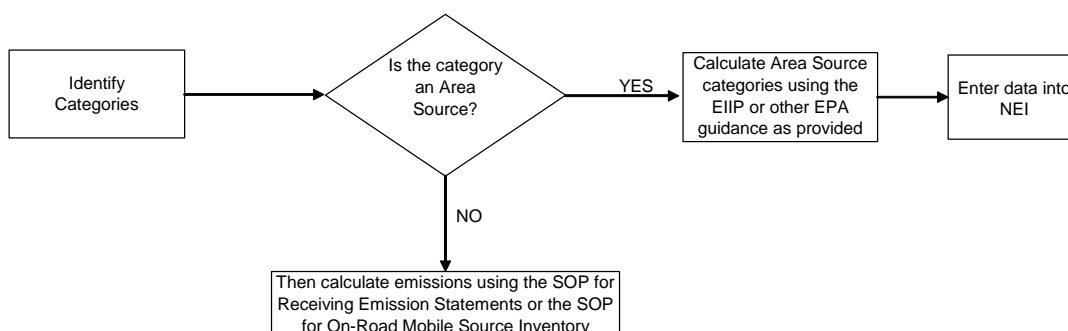
### 4. Description of equipment, forms, and/or software to be used

Equipment, Form, &/or Software	Who uses it?	Location
AP42	Senior Environmental Manager and Environmental Manager	EPA's website: <a href="http://www.epa.gov/ttn/chief/ap42/index.html">http://www.epa.gov/ttn/chief/ap42/index.html</a>
Emission Inventory Improvement Program (EIIP)	Senior Environmental Manager and Environmental Manager	EPA's website: <a href="http://www.epa.gov/ttn/chief/eiip/techreport/">http://www.epa.gov/ttn/chief/eiip/techreport/</a>
National Emission Inventory (NEI) Air Pollutant Emission Trends, U.S. EPA	Senior Environmental Manager and Environmental Manager	EPA's website <a href="http://www.epa.gov/ttn/chief/trends/">http://www.epa.gov/ttn/chief/trends/</a>

### 5. Procedure

#### 5.1 Procedural Flowchart

The procedural flowchart below titled "Area Source Inventory" is used to calculate non-point source inventories. This data is compiled every three years as mandated by EPA. The guidance followed is located in the EIIP. Emissions from area sources are calculated at the county level and consist of individual sources that are small, numerous and that have not been inventoried as specific point, mobile, or biogenic sources according to the EIIP.



## 5.2 Procedure

### Category 1: Stationary Fuel Combustion

#### Sub-Category 1.1: Industrial Fuel Combustion

SCC: 2102002000, 210200400, 2102005000, 2102006000, 2102007000

Follow these steps when calculating emissions from industrial fuel combustion:

1. Obtain statewide fuel consumption for “Other Industrial” for the following fuels: coal, distillate oil, natural gas, and liquefied petroleum gas (LPG). Use the Energy Information Administration’s website at <http://www.eia.doe.gov/> to find fuel consumption.

Note: As of the date of this SOP, the following steps will lead to data for fuel consumption.

- a. Go to <http://www.eia.doe.gov/>
  - b. Click on link for the various types of fuel consumption
  - c. Click on consumption tab for state totals
2. To avoid double calculating the various fuel combustions, subtract reported source totals from the total statewide fuel consumption by querying the total process rates for the various SCC codes using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb. The remaining number is the area source fuel consumption for the state.
  3. To distribute the remaining fuel to the county level, calculate the ratio of county to state employment for the manufacturing sector by dividing the number of Manufacturing Employees for each county by the number of manufacturing employees statewide. Use the County Business Patterns website at <http://www.census.gov/> to find the number of manufacturing employees for each county.

Note: As of the date of this SOP, the following steps will lead to data for Economic Census.

- a. Go to <http://www.census.gov/>
  - b. Click on Economic Census
  - c. Under 2002 Reports by State, use the down arrow key to select Indiana
  - d. Now, select each of the counties to find the county manufacturing employees
  - e. Use the total of employees for manufacturing under the paid employees’ column
4. Multiply the ratio calculated above in step 3 by the area source fuel consumption to distribute the fuel to the county level. The remaining number is the process rate for each county. Multiply the process rate by the appropriate EPA emission factors for the various fuels for industrial manufacturing found in AP-42, Fifth Edition, Volume 1, Chapter 1, External Combustion Sources at <http://www.epa.gov/ttn/chief/ap42/ch01/>.

#### Sub-Category 1.2: Commercial/Institutional Fuel Combustion

SCC: 2103004000, 2103005000, 2103006000, 2103007000

Follow these steps when calculating emissions from commercial/institutional fuel combustion:

1. Obtain statewide fuel consumption for “Commercial” for the following fuels: distillate fuel oil, liquefied petroleum gas (LPG), natural gas, and residual fuel oil. Use the Energy Information Administration’s website at <http://www.eia.doe.gov/> to find fuel consumption.

Note: Use the steps in sub-category 1.1-1 to navigate through the Energy Information Administration’s website.

2. To avoid double calculating the various fuel combustions, subtract reported source totals from the total statewide fuel consumption by querying the total process rates for the various fuels using the SIC codes greater than 4999 using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb. These are the SIC codes that identify all the commercial/institutional area sources.
3. To distribute the remaining fuel to the county level, calculate the ratio of county to state employment for the commercial/institutional sector by dividing the number of commercial/institutional employees for each county by the number of commercial/institutional employees statewide. Use the County Business Patterns website at <http://www.census.gov/> to find the number of commercial/institutional employees for each county.

Note: Use the steps in sub-category 1.1-3 to navigate through the U.S. Census Bureau's website.

4. Multiply the ratio calculated above in step 3 by the area source fuel consumption to distribute the fuel to the county level. The remaining number is the process rate for each county. Multiply the process rate by the appropriate EPA emission factors for the various fuels for commercial/institutional found in AP-42, Fifth Edition, Volume 1, Chapter 1, External Combustion Sources at <http://www.epa.gov/ttn/chief/ap42/ch01/>.

### **Sub-Category 1.3: Residential Fuel Combustion**

SCC: 2104002000, 2104004000, 2104006000, 2104007000

Follow these steps when calculating emissions from residential fuel combustion:

1. Obtain statewide fuel consumption for "Residential" for the following fuels: coal, distillate oil, natural gas, and liquid petroleum gas. Use the Energy Information Administration's website at <http://www.eia.doe.gov/> to find fuel consumption.

Note: Use the steps in sub-category 1.1-1 to navigate through the Energy Information Administration's website.

2. To distribute residential fuel to the county level, calculate the ratio of county fuel usage to statewide fuel usage using the breakdown of fuels by household per county divided by the breakdown of fuels by household per state using the U.S. Census Bureau's website at <http://www.census.gov/>.

Note: As of the date of this SOP, the following steps will lead to data for breakdown of fuels by household.

- a. Go to <http://www.census.gov/>
  - b. On the left hand side click on "American Fact Finder"
  - c. Using the drop down menu, click on Indiana
  - d. Scroll to "Housing Characteristics" and select "show more"
  - e. On the left hand side, select "change geography (state, county, place...)"
  - f. Using the drop down menu, select county, state, and each county name to obtain housing information
3. Multiply the ratio calculated above in step 3 by the area residential fuel use by state to distribute the fuel to the county level. The remaining number is the process rate for each county for the various fuels. Multiply the process rate by the appropriate EPA emission factors for the various fuels for residential found in AP-42, Fifth Edition, Volume 1, Chapter 1 External Combustion Sources at <http://www.epa.gov/ttn/chief/ap42/ch01/>.

#### **Sub-Category 1.4: Residential Heating Using Wood**

SCC: 2104008001, 2104008002, 2104008003, 2104008004, 2104008010, 2104008030, 2104008050

Follow these steps when calculating emissions from residential heating using wood:

1. Obtain statewide wood consumption for “Residential” using the Energy Information Administration’s website at <http://www.eia.doe.gov/>. To convert the statewide wood consumption from cords of wood consumed to tons, multiply the total cords consumed by 1.25.

Note: As of the date of this SOP, the following steps will lead to data for wood consumption.

- a. Go to <http://www.eia.doe.gov/>
  - b. Click on Households, Buildings & Industry
  - c. Under Consumption Summaries, click on “Annual”
  - d. Now, over to the right click on “State Energy”
  - e. Using the drop down menu at the bottom, select “Indiana”
  - f. Under “Consumption” click on the “Residential” document
2. Using the ratio estimates provided by EPA found in the “Documentation For The Final 2002 NONPOINT SECTOR (FEB 06 version) NATIONAL EMISSIONS INVENTORY FOR CRITERIA AND HAZARDOUS AIR POLLUTANTS” at <http://www.epa.gov/ttn/chief/net/2002inventory.html#documentaiton> the number calculated above in step 1 is broken out into three categories (fireplace without inserts, fireplaces with inserts and woodstoves).
  3. To distribute to the county level for the three categories above, calculate a ratio of county to state using the statewide total of households and the county total of households that burn wood found at the U.S. Census Bureau website <http://www.census.gov/>. The remaining number is the process rate for each county. Multiply the process rate by the appropriate EPA emission factors for each of the categories using the EIIP, Volume 3, Chapter 2, Residential Wood Combustion at [http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii02\\_apr2001.pdf](http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii02_apr2001.pdf).

Note: Use the steps in sub-category 1.3-2 to navigate through the Energy Information Administration’s website.

### **Category 2: Industrial Processes**

#### **Sub-Category 2.1: Bakeries**

SCC: 2302050000

Follow these steps when calculating emissions from bakeries:

1. Calculate a per capita consumption factor using the reported weight of yeast–raised product reported under the Bread, Cake, and Frozen Bakery Products from the Economic Census Bureau at <http://www.census.gov/econ/census02/> and the U.S. population at the U.S. Census Bureau at <http://census.gov/>.

Note: As of the date of this SOP, the following steps will lead to data for yeast-raised product.

- a. Go to <http://www.census.gov>
- b. Under Business & Industry open “Economic Census”
- c. Now open “Subject Series”
- d. Under Manufacturing, open the table “Product Summary”
- e. Use the yeast – raised product under Commercial Bakeries (NAICS code 311812) and Frozen cakes, pies, and other pastries manufacturing (NAICS code 311813)

2. Multiply the per capita consumption factor calculated above in step 1 by the Indiana population found at the U.S. Census Bureau at <http://www.census.gov>.  
Note: As of the date of this SOP, the following steps will lead to Indiana population data.
  - a. Go to <http://www.census.gov>
  - b. Under Population Finder, use the drop down menu to select Indiana
3. To avoid double calculating the amount consumed for the state, subtract the reported process rate for both the straight-dough and sponge-dough by querying the total process rates for the SCC 30203202 (straight-dough) and SCC 30203201 (sponge-dough) using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb.
4. Multiply the remaining process rate by the straight-dough emission factor of .5 lbs VOC/1,000 pounds baked found in the EIIP, Volume 3, Area Source Method Abstracts: Baked Goods at Commercial/Retail Bakeries at <http://www.epa.gov/ttn/chiep/eiip/techreport/volume03/index.html>.
5. Calculate a per capita factor by dividing the Indiana population found in step 2 by the remaining process rate. Now multiply the per capita factor by each of the county populations to calculate the VOC emissions for each county.

Note: As of the date of this SOP, the following steps will lead to county population data.

- a. Go to <http://www.census.gov>
- b. Under Population Finder, use the drop down menu to select Indiana
- c. Under "View more results", select the county table

### Category 3: Solvent Utilization

#### Sub-Category 3.1: Architectural Coatings

SCC: 2401001000

Follow these steps when calculating emissions from architectural coatings:

1. Calculate an emission factor for architectural coating area sources first by adding all the solvent-based paints together and all the water based paints together using the U.S. Census Bureau's website <http://www.census.gov>. Use Table 1 to select all solvent-based paints and Table 2 to select all water based paints.

Table 1  
National Solvent Coating Sales

Solvent Type	1,000 gallons
Exterior Solvent Type	XX
Interior Solvent Type	XX
Architectural Lacquers	XX
Architectural Coating N.S.K.	XX
<b>Total Solvents</b>	XX

Table 2  
National Water Based Coating Sales

Water Type	1,000 gallons
Exterior Water Type	XX
Interior Water Type	XX
<b>Total Water Type</b>	XX

Note: As of the date of this SOP, the following steps will lead to architectural coating data.

- a. Go to <http://www.census.gov>
  - b. Under Business & Industry, select more
  - c. Now select Current Industrial Reports (CIR)
  - d. Select CIRs by Subject
  - e. Tab down to find the report "Paints and Allied Products"
2. Now multiply the total national number for solvent-based paints by the average solvent-based coating content number (3.87 lbs VOC/gallon) and the total national number for water-based paints by the average water-based coating content number (0.74 lbs VOC/gal) found in the EIIP, Volume 3, Chapter 3: Architectural Surface Coating at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/archsfc.pdf>.
  3. Add the total solvent-based coatings and the water-based paints together for a total national VOC emission factor from architectural surface coating. Then divide this number by the total national population using the U.S. Census Bureau's website <http://www.census.gov>.
  4. Multiply the number calculated above in step 3 by each of the county populations to calculate the total emissions per county.

Note: Use the steps in sub-category 2.1-5 to navigate through the Census Bureau's website.

### **Sub-Category 3.2:      Automobile Refinishing**

SCC: 2401005000

Follow these steps when calculating emissions from automobile refinishing:

1. To avoid double calculating, first query the employees from the reported sources using the SIC 7532- Body Repair and Paint Shops using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb. Subtract this number from the county employment for the same SIC using the U.S. Census Bureau's website <http://www.census.gov>.

Note: As of the date of this SOP, the following steps will lead to county employment data.

- a. Go to <http://www.census.gov>
  - b. Under Business & Industry, select more
  - c. Now select the County Business Patterns report for county
  - d. Select Indiana
  - e. Select each of the counties to find the number of employees for the corresponding SIC or NAICS code
2. Multiply the emission factor 3,519 lbs VOC/employee found in the EIIP, Volume 3, Chapter 13 Auto Body Refinishing at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/archsfc.pdf> and the county employment found above in step 1 to calculate the VOC emissions for each county.

### **Sub-Category 3.3:      Traffic Markings**

SCC: 2401008000

Follow these steps when calculating for traffic markings:

1. First calculate the national emissions by finding the amount of sales for traffic marking paints from the U.S. Census Bureau's website <http://www.census.gov> and multiply 3.36 lb VOC/gallon the national average VOC content for water and solvent-based paints from the EIIP, Volume 3, Chapter 14, Traffic Markings at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii14.pdf>.

Note: As of the date of this SOP, the following steps will lead to traffic marking paints.

- a. Go to <http://www.census.gov>
  - b. Under Business & Industry, select more
  - c. Now select Current Industrial Reports (CIR)
  - d. Select CIRs by Subject
  - e. Tab down to find the report "Paints and Allied Products"
  - f. Use the quantity amount in 1000/gallons under "Traffic marking paints (all types: shelf goods and highway department)"
2. Allocate the national emissions calculated above in step 1 to the state level by dividing the amount of money spent in Indiana by the money spent nationally on highway maintenance using the category "Total Disbursements" at the Federal Highway Administration's website <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/sf2.htm>.
  3. Calculate the emission factor for Indiana by dividing the state level emissions by the total number of roadway miles in Indiana, given by contacting the Program Development Division, Highway Statistics, Indiana Department of Transportation or the Office of Air Quality, Technical Support and Modeling Section's mobile inventory preparer.
  4. Multiply the emission factor by the total number of roadway miles in each county using the information supplied from above in step 3.

**Sub-Category 3.4: Industrial Surface Coating (employment based emission factor)**

SCC: 2401015000, 2401020000, 2401030000, 2401040000, 2401045000, 2401055000, 2401060000, 2401065000, 2401070000, 2401075000, 2401080000

Follow these steps when calculating for industrial surface coating using the employment based emission factor:

1. Calculate an employee based emission factor for the following SIC's in the table below running a query to find the point source employment for each of the SIC's and the reported VOC emissions for each using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb.

SCC	Description	SIC's
2401015000	Factory Finished Wood	2426-2429, 243-245, 2492, 2499
2401020000	Wood Furniture	25
2401030000	Paper Coating	26
2401040000	Metal Cans *	341
2401045000	Metal Coils *	3479
2401055000	Machinery and Equipment	35
2401060000	Appliances *	363
2401065000	Electronic and Other Electrical	3612, 3357
2401070000	New Motor Vehicles **	3711
2401075000	Other Transportation	37 (not 3711, 373)
2401080000	Marine Coatings	373



\* Use the National default emission factor because the reporting sources are low.  
\*\* Emissions reported in point source

2. Divide the reported VOC emissions for each of the SIC's by the reported employment for each SIC. Use this number for the emission factor.
3. Subtract the number of reported employees found in step 1 from each of the SIC county totals using the U.S. Census Bureau's website <http://www.census.gov>. Use the remaining number for the process rate for each of the counties.

Note: Use the steps in sub-category 3.2-1 to navigate through the County Business Patterns.

4. Multiply the process rates above found for each of the SIC's in step 4 by the emission factors found in step 3 to allocate the emissions to each of the counties.

### Sub-Category 3.5: Industrial Surface Coating (default emission factor)

SCC: 2401090000, 2401100000, 2401200000

Follow these steps when calculating emissions from industrial surface coating using the default emission factor:

1. Calculate industrial surface coating emissions using the default emission factor in the EIIP, Volume 3, Chapter 8, Industrial Surface Coating at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii08.pdf> and multiply by the county populations found at the U.S. Census Bureau's website <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through U.S. Census Bureau's website.

SCC's	Description	Default Emission Factor
24-01-090-000	Miscellaneous Manufacturing	0.600 lbs VOC/person
24-01-100-000	Industrial Maintenance Coatings	0.800 lbs VOC/person
24-01-200-000	Other Special Purpose Coatings	0.800 lbs VOC/person

### Sub-Category 3.6: Degreasing

SCC: 2415230000, 2415245000, 2415345000, 2415360000

Follow these steps when calculating emissions from degreasing activities:

1. Use the U.S. Census Bureau to find employment numbers for each of the counties for the categories in Table 1 below at <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through U.S. Census Bureau's website.

Source Classification Codes and Industries Associated with Degreasing		
SCC	SIC	Description
2415230000	36	Electronic and other electronic equipment
	25	Furniture and fixtures
	33	Primary metal industries
	34	Fabricated metal products
	35	Industrial machinery and equipment
	37	Transportation equipment
	38	Instruments and related products

2415245000	39	Miscellaneous manufacturing industries
	417	Bus Terminal and Service Facilities
	423	Trucking terminal facilities
	551	New and used car dealers
	552	Used car dealers
	554	Gasoline service stations
	555	Boat dealers
	556	Recreational vehicle dealers
	753	Automotive repair shops
2415345000	25	Furniture and fixtures
	33	Primary metal industries
	34	Fabricated metal products
	35	Industrial machinery and equipment
	36	Electronic and other electronic equipment
	37	Transportation equipment
	38	Instruments and related products
	39	Miscellaneous manufacturing industries
2415345000 cont.		
2415360000	417	Bus Terminal and Service Facilities
	423	Trucking terminal facilities
	551	New and used car dealers
	552	Used car dealers
	554	Gasoline service stations
	555	Boat dealers
	556	Recreational vehicle dealers
	753	Automotive repair shops

- Run a query to find reported employment numbers for each of the categories in the table above using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb.
- Subtract the reported employment from the U.S Census Bureau's numbers to find the process rates for each of the counties.
- Calculate the VOC emissions by multiplying the default emission factor in the EIIP, Volume 3, Chapter 6, Solvent Cleaning at <http://www.epa.gov/ttn/chiep/techreport/volume03/iii06fin.pdf> and the process rate for each of the counties found in step 3.

### Sub-Category 3.7: Dry Cleaners

SCC: 2420010370

Follow these steps when calculating emissions from dry cleaners:

- Calculate an emission factor by finding the number of employees state wide and county wide for SIC 7216(Laundry and Garment Services) at the U.S. Census Bureau's website <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through U.S. Census Bureau's website

- Take the sum of the employment from the counties, multiply by 2000, and divide by the statewide total found in step 1. Use this number for the emission factor.
- Calculate the process rate by running a query to find the number of reported employees for SIC 7216 using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb and subtract this number from the county total.
- Multiply the process rate for each of the counties above by the emission factor to calculate for VOC emissions.

### **Sub-Category 3.8: Graphic Arts**

SCC: 2425000000

Follow these steps when calculating emissions from graphic arts activities:

1. Multiply the per capita factor found in the EIIP, Volume 3, Chapter 7, Graphic Arts at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii07.pdf> by the state population from the Census Bureau <http://www.census.gov> to find the total emissions for the state.

Note: Use the steps in 2.1-2 to navigate through the U.S. Census Bureau's website.

2. Develop an emission factor by subtracting point source emissions from the total emissions and dividing by the state population found in step 1.
3. Distribute to the counties by multiplying the emission factor by the population for each county.

Note: Use the steps in 2.1-5 to navigate through the U.S. Census Bureau's website.

### **Sub-Category 3.9: Rubber and Plastics**

SCC: 2430000000

Follow these steps when calculating emissions from rubber and plastics activities:

1. Run a query to find the total of reported emissions and number of reported employees for all SIC's beginning with 30 using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb.
2. Calculate the emission factor by dividing the point source emissions by the reported employees.
3. Subtract the reported employment for SIC's beginning with 30 from total employment for each of the counties.

Note: Use step 3.2-1 to navigate through the County Business Patterns.

4. Multiply the remaining number from above with the emission factor calculated in step 2.

### **Sub-Category 3.10: Miscellaneous Industrial Adhesives**

SCC: 2440020000

Follow these steps when calculating emissions from industrial adhesives activities:

1. Using the guidance in the Air Pollutant Emission Trends at <http://www.epa.gov/ttn/chief/trends>, calculate an emission factor by finding the total National Emissions from Industrial Adhesives and divide by the National Manufacturing Employment from the U.S. Census Bureau's website <http://www.census.gov>.

Note: As of the date of this SOP, the following steps will lead to emission trends data for industrial adhesives.

- a. Go to <http://www.epa.gov/air/airtrends/aqtrnd03/>
- b. Select "Appendix A –Data Tables"
- c. Search for industrial adhesives

Note: As of the date of this SOP, the following steps will lead to National Manufacturing Employment.

- a. Go to <http://www.census.gov>

- b. Select Economic Census
  - c. Now select "Businesses with paid employees"
  - d. Use the manufacturing number under "paid employees"
2. To avoid double calculating, run a query collecting sources reporting adhesives using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb. Subtract the reported employment from the total amount of manufacturing employment. The remaining number is the process rate.

### Sub-Category 3.11: Commercial/Consumer Solvents

SCC: 2460100000, 2460200000, 2460400000, 2460500000, 2460600000, 2460800000, 2460900000

Follow these steps when calculating emissions from commercial/consumer solvent usage:

1. Using the EIIP, Volume 3, Chapter 5, Consumer, and Commercial Solvent Use at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii05.pdf>, multiply the per capita factors for each of SCC codes by the population for each county from the U.S. Census Bureau's website <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through the U.S. Census Bureau's website.

**Emission Factors for Commercial/Consumer Solvents**

Source Classification Codes	Product Category	Per Capita Emission Factor (lb VOC/person)
2460100000	Personal Care Products	2.32
2460200000	Household Products	0.79
2460400000	Automotive Aftermarket Products	1.36
2460500000	Coatings and Related Products	0.95
2460600000	Adhesives and Sealants	0.57
2460800000	FIFRA-Regulated Products	1.78
2460900000	Miscellaneous Products	0.07

### Sub-Category 3.12: Asphalt Emulsions

SCC: 2461022000

Follow these steps when calculating emissions from asphalt emulsions:

1. To calculate the process rate, find the number of barrels of asphalt used for the state found at the State Energy Data website at [http://www.eia.doe.gov/emeu/states/seds\\_updates.html](http://www.eia.doe.gov/emeu/states/seds_updates.html).
2. Obtain the amount of roadway miles for the state and county from the Indiana Department of Transportation's, Division of Roadway Management Section.
3. Divide the county roadway miles by the state roadway miles and multiply by the total asphalt usage for the state found above in step 1.
4. Multiply the process rate by the default emission factor in the EIIP, Volume 3, Chapter 17, Asphalt Paving [http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii17\\_apr2001.pdf](http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii17_apr2001.pdf).

### **Sub-Category 3.13: Pesticide Usage**

SCC: 2461800000

Follow these steps when calculating emissions from pesticide usage:

1. Calculate pesticide usage by using a state specific emission factor. Develop the factor using a methodology that includes the retrieval of information of pesticides used, an emission factor for each pesticide used, a calculation about the inert ingredients in each pesticide, and an estimate of the amount of crop oil concentrate (an adjuvant used for the application of herbicides) used in the state of Indiana.
2. Find the amount of active ingredients for herbicides and insecticides applied to Indiana fields at the Indiana Agricultural Statistics Service at <http://www.usda.gov/nass/pubs/agr02/acro02.htm>.
3. Insert the numbers for both corn and soybeans to the Excel pesticide table found at K:\OAQ\_INV\Inv\pesticide.
4. Calculate the emission factor by adding the emissions from crop oil concentrates obtained in the pesticide Excel table, pesticides, and solvent carriers and then divide by the total number of acres of corn and soybeans in Indiana found at the National Agricultural Statistics Services, United States Department of Agriculture <http://www.nass.usda.gov/QuickStats/>.
5. Multiply the emission factor by the county-specific acreage for both corn and soybeans found at the National Agricultural Statistics Services, United States Department of Agriculture <http://www.nass.usda.gov/QuickStats/>.

### **Category 4: Petroleum Marketing**

Follow these steps when calculating emissions for bulk terminals:

#### **Sub-Category 4.1: Bulk Terminals**

SCC: 2501050120

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using, the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at [http://www.census.gov/econ/census02/data/in/IN000\\_44.HTM#N447](http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447).
3. Run a query to find the amount of point source reported gasoline using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb and subtract from the amount sold statewide. Use this to allocate to each county.
4. Allocate the amount gasoline sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
5. EPA guidance suggests that only 25% of all gasoline consumed goes through bulk plants. To calculate process rate, multiply each county by 25% to estimate the amount of fuel transferred through bulk terminals.
6. Multiply process rate by the emission factors in the table below:

Emission Factors	
Source	Emission Factor (lb VOC/1000) gal
Storage Tanks Breathing Loss	5.0
Storage Tank Working Loss - Filling	9.6
Storage Tank Working Loss - Emptying	3.8
Gasoline Loading Racks (Vapor balance controlled)	11.9 (0.3)
Total	30.3

7. Bulk terminals also have controls set forth in the Indiana rule (326 IAC 8-4). This rule says that any source of this type that is new after January 1, 1980 is required to make sure that any transfer between a tank and transport uses a submerged pipe vapor balance system. Using EPA's default rule effectiveness, multiply the number in step 2 by the Control Efficiency (CE) 38%, a Rule Effectiveness (RE) of 80%, and a Rule Penetration (RP) of 13%, i.e. process rate X emission factor X  $(1-(CE \times RE \times RP)) \times 1 \text{ ton}/2000 \text{ lb} = \text{VOC tons}$ .

#### Sub-Category 4.2: Portable Fuel Containers

SCC: 2501011011, 2501011012, 2501011016, 2501012011, 2501012012, 2501012016

Follow these steps when calculating emissions for portable fuel containers:

- Calculate the emissions for Commercial and Residential gas cans by using the method developed by the California Environmental Protection Agency's document Public Meeting to Consider Approval of California's Portable Gasoline-Container Emissions Inventory. Use the excel spreadsheet found at K:\OAQ\_INV\Inv\Area Source\Gasoline.zip to calculate the emissions for permeation, diurnal, and transport. Both the Spillage and Vapor losses are estimated in the nonroad emissions inventory by EPA models.
- Using the survey results below in Table 1, estimate the number of fuel containers in the state for residential categories. The calculations are set up in an excel spreadsheet at K:\OAQ\_INV\Inv\Area Source\Gasoline.zip\250101\GasCans.xls, insert the number of occupied housing, from the U.S. Census Bureau's website at <http://www.census.gov/>, in the space marked "households".

Note: As of the data of this SOP, the following steps will lead to number of households in Indiana.

- Go to <http://www.census.gov/>
- On the left hand side select American Fact finder
- Now select housing
- Under "Occupancy Status", select occupies housing units
- Now use the drop down menu and select Indiana

**Table 1**

Residential Survey Results	
Percentage of households with at least one gas can	46%
Number of gas cans per household	1.8
Percentage of plastic cans/metal cans	76% / 24%
Weighted average gas can capacity (gal)	2.34
Percentage of gas cans stored with fuel	70%
Weighted average stored fuel volume (% of capacity)	49%

Percentage of all gas cans that are plastic and stored open/closed	23% / 53%
Percentage of all gas cans that are metal and stored open/closed	11% / 13%
Percent of all cans stored open/closed	34% / 66%

- Using the survey results below in Table 2, estimate the number of fuel containers for commercial categories for the state. Do this by using the commercial population based on the number of identified businesses in Table 3 and insert into the excel spreadsheet at K:\OAQ\_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls.

**Table 2**

<b>Commercial Survey Results</b>	
Percentage of businesses with at least one gas can	80%
Number of gas cans per business	6.9
Percentage of plastic cans/metal cans	72% / 28%
Weighted average gas can capacity (gal)	3.43
Weighted average stored fuel volume (% of capacity)	49%
Percentage of all gas cans that are plastic and stored open/closed	39% / 33%
Percentage of all gas cans that are metal and stored open/closed	10% / 18%
Percent of all cans stored open/closed	49% / 51%

**Table 3**

<b>Category</b>	<b>NAICS</b>
Agricultural	115
Automotive Club and Towing Services	48841
Service Stations	8111
Lawn and Garden Maintenance Services	81141
General Contractors	23
Construction and Rental Yards	5324
Landscaping Services	561730

- Calculate permeable emissions separately for both residential and commercial by using the emission rates given in the California document. Use 1.57g/gal/day for plastic containers and 0.6g/gal/day for metal containers. Insert the numbers for both residential and commercial into the excel spreadsheet at K:\OAQ\_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls.
- Calculate diurnal emissions by inserting the numbers for both residential and commercial into the excel spreadsheet at K:\OAQ\_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls.
- Calculate transport spillage emissions by inserting the numbers for both residential and commercial into the excel spreadsheet at K:\OAQ\_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls

**Sub-Category 4.3: Service Station Tank Loading or Tank Truck Unloading (Stage 1)**

SCC: 2501060052 (uncontrolled), 2501060053 (controlled)

Follow these steps when calculating emissions from tank loading and unloading

- Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
- Find the amount of gasoline sold statewide and county wide by using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at [http://www.census.gov/econ/census02/data/in/IN000\\_44.HTM#N447](http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447).

3. Run a query to find the amount of point source reported gasoline using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb and subtract from the amount sold statewide. Use this to allocate to each county.
4. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
5. Find the amount of gasoline tanks from the Underground Storage Tank data files from the Office of Land Quality, Indiana Department of Environmental Management  
<http://www.in.gov/idem/programs/land/ust/ust.html>.
6. Now copy the data into an Excel spreadsheet. Filter finding the tanks that have only gasoline. Also filter out the tanks that are “permanently out of service”, “suspended per inspection”, and “unregulated”.
7. Using the Petroleum Sources Applicability Rule 326 IAC 8-4-1, filter out the tanks that are located in Clark, Boone, Dearborn, Elkhart, Floyd, Hamilton, Hancock, Harrison, Hendricks, Johnson, Lake, Marion, Morgan, Porter, Saint Joseph, and Shelby counties.
8. To find the amount of balanced tanks in Indiana, use the total of gasoline tanks found in step 7 and divide by the number of tanks that constructed after 1985 through current year. Use the spreadsheet created in step 7 and filter out the tanks that constructed prior to 1985.
9. Now apply the percentage found in step 8 to the amount of gasoline found in each county.
10. Apply the controlled emission factor to only those counties identified in 326 IAC 8-4, i.e. Boone, Clark, Dearborn, Elkhart, Hamilton, Hancock, Harrison, Hendricks, Johnson, Lake, Marion, Morgan, Porter, Saint Joseph, and Shelby. Use the emission factors for stage 1 controlled and uncontrolled in the EIIP, Volume 3, Chapter 11, Gasoline Marketing (Stage 1 and Stage 2)  
[http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii11\\_apr2001.pdf](http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii11_apr2001.pdf).

#### **Sub-Category 4.4: Vehicle Fueling (Stage II) – Vapor Displacement**

SCC: 2501060101 (uncontrolled), 2501060102 (controlled)

Follow these steps when calculating emissions from vehicle fueling – Vapor Displacement:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at [http://www.census.gov/econ/census02/data/in/IN000\\_44.HTM#N447](http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447).
3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Calculate an emission factor using the input files supplied from the mobile model. Table 1 and Table 2 show examples of how the emission factors for January and July for the Southern Counties were calculated. By using these two months, the other months are distributed. Use the average of all months for the emission factor for the Southern counties. Use the same methodology for the Northern counties, Central Counties, Clark/Floyd, and Lake/Porter.



Table 1

January Run for Southern Counties

VTYPE	GM_MILE	MILES	MPG	VMT	G/GAL	Month	Factor
1	0.0628	29.4642	23.89	0.463793	0.322719	1	1.01
2	0.1058	35.2923	18.77	0.070491	0.009868	2	1.14
3	0.1058	35.2923	18.77	0.234672	0.109364	3	1.28
4	0.1486	34.0851	14.31	0.071379	0.010834	4	1.41
5	0.1486	34.0851	14.31	0.032825	0.002291	5	1.55
6	0.2152	35.8919	9.88	0.028896	0.001775	6	1.69
7	0.2342	32.3617	9.08	0.001027	2.24E-06	7	1.82
8	0.2465	19.9098	8.63	0.000522	5.8E-07	8	1.69
9	0.2719	27.6093	7.82	0.001164	2.88E-06	9	1.55
10	0.2733	27.4686	7.78	0.002489	1.32E-05	10	1.41
11	0.2972	24.3758	7.15	0.001132	2.72E-06	11	1.28
12	0.3169	23.6257	6.71	0.000004	3.4E-11	12	1.14
25	0.3421	27.2301	6.22	0.000496	5.23E-07	Sum	16.97
					0.456873	g/gal	Average
					1.007222	lb/E3gal	1.41

Table 2  
July Run for Southern Counties

VTYPE	GM_MILE	MILES	MPG	VMT	G/GAL
1	0.1144	29.1752	23.9	0.456768	0.570447
2	0.1955	34.8826	18.75	0.071404	0.018689
3	0.1955	34.8826	18.75	0.237712	0.207133
4	0.2882	33.944	14.3	0.072838	0.021865
5	0.2882	33.944	14.3	0.033496	0.004624
6	0.4164	35.8288	9.9	0.029201	0.003515
7	0.4529	32.4716	9.1	0.001038	4.44E-06
8	0.4763	19.6757	8.66	0.000509	1.07E-06
9	0.5264	27.4602	7.83	0.00116	5.55E-06
10	0.5283	27.3328	7.8	0.002482	2.54E-05
11	0.5749	24.2458	7.17	0.001122	5.19E-06
12	0.6128	23.3718	6.73	0.000004	6.6E-11
25	0.6629	27.2301	6.22	0.000485	9.7E-07
					0.826316 g/gal
					1.821697 lb/E3gal

5. Multiply the process rate in step 4 by the emission factor found in the mobile model.

#### Sub-Category 4.5: Vehicle Fueling (Stage II) – Spillage

SCC: 2501060103

Follow these steps when calculating emissions from vehicle fueling – Spillage:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at [http://www.census.gov/econ/census02/data/in/IN000\\_44.HTM#N447](http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447).
3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Apply the emission factor 0.7 lb VOC/1000 gallons in AP-42, Fifth Edition, Volume 1, Chapter 5, Petroleum Industry, Transportation, and Marketing of Petroleum Liquids <http://www.epa.gov/ttn/chieff/ap42/ch05/final/c05s02.pdf> to the process rate found in step 4.

#### Sub-Category 4.6: Underground Tank Breathing

SCC: 2501060200

Follow these steps when calculating emissions from underground tank breathing:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at [http://www.census.gov/econ/census02/data/in/IN000\\_44.HTM#N447](http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447).

3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Apply the emission factor 1.0 lb VOC/1000 gallons in AP-42, Fifth Edition, Volume 1, Chapter 5, Petroleum Industry, Transportation, and Marketing of Petroleum Liquids <http://www.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf> to the process rate found in step 4.

#### **Sub-Category 4.7: Tank Trucks in Transit**

SCC: 2505030120

Follow these steps when calculating emissions from tank trucks in transit:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at [http://www.census.gov/econ/census02/data/in/IN000\\_44.HTM#N447](http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447).
3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Using the guidance in the EIIP, Volume 3, Chapter 11, Gasoline Marketing (Stage I and State II) at [http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii11\\_apr2001.pdf](http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii11_apr2001.pdf), multiply the activity rate 1.25 by the amount sold per county found in step 4.
5. Now multiply the process rate found in step 5 by the emission factor .06 lb VOC/gallon transported using the EIIP guidance above.

### **Category 5: Waste Management Practices**

#### **Sub-Category 5.1: Solid Waste Incineration**

##### **5.1.1: Industrial Solid Waste Incineration**

SCC: 2601010000

Follow these steps when calculating emissions from industrial solid waste incineration:

1. Find the number of manufacturing employees, NAICS code 31, for each county using the County Business Patterns at the U.S. Census Bureau's website <http://censtats.census.gov/cgi-bin/cbpnaic/cbpsel.pl>.

Note: Use the steps in 3.2-1 to navigate through the county business patterns.

2. Multiply the county manufacturing employment by the default fuel-loading factor 420 tons / 1,000 manufacturing employees.
3. Multiply the process rate in step 2 by AP-42, Fifth Edition, Volume 1, Chapter 2-1.12, Solid Waste Disposal at <http://www.epa.gov/ttn/chief/ap42/ch02/index.html>.

### 5.1.2: Commercial Solid Waste Incineration

SCC: 2601020000

Follow these steps when calculating emissions from commercial solid waste incineration:

1. Find the population for each county at the U.S. Census Bureau's website <http://www.census.gov/>.  
Note: Use steps 2.1-5 to navigate through the U.S. Census Bureau's website.
2. Next find the default factor of .65lb/person/day from U.S. EPA Municipal Solid Waste Report <http://www.epa.gov/epaoswer/non-hw/muncpl/msw99.htm>.
3. Find the percent of commercial solid waste from the U.S. EPA Municipal Solid Waste Report above.
4. Now, calculate the process rate for commercial solid waste incineration by multiplying population by the default factor of .65lb/person/day by the percent of commercial solid waste and number of days in a year.
5. Multiply the process rate in step 4 by AP-42, Fifth Edition, Volume 1, Chapter 2-1.12, Solid Waste Disposal at <http://www.epa.gov/ttn/chief/ap42/ch02/index.html>.

### 5.1.3: Residential Solid Waste Incineration

SCC: 2601030000

Follow these steps when calculating emissions from residential solid waste incineration:

1. Find the population for each county at the U.S. Census Bureau's website <http://www.census.gov/>.  
Note: Use step 2.1-5 to navigate through the U.S. Census Bureau's website.
2. Next find the default factor of .65lb/person/day from U.S. EPA Municipal Solid Waste Report <http://www.epa.gov/epaoswer/non-hw/muncpl/msw99.htm>.
3. Find the percent of residential solid waste from the U.S. EPA Municipal Solid Waste Report above.
4. Now, calculate the process rate for residential solid waste incineration by multiplying population by the default factor of .65lb/person/day by the percent of commercial solid waste and number of days in a year.
5. Multiply the process rate in step 4 by AP-42, Fifth Edition, Volume 1, Chapter 2-1.12, Solid Waste Disposal at <http://www.epa.gov/ttn/chief/ap42/ch02/index.html>.

## Sub-Category 5.2: Residential Open Burning

### 5.2.1: Leaf and Brush Burning

SCC: 2610000100 and 2610000400

Follow these steps when calculating emissions from leaf and brush burning:

1. Find a per capita factor for leaf burning and a per capita for brush burning by using the U.S. EPA's Solid Waste Report at <http://www.epa.gov/epaoswer/non-hw/muncpl/msw99.htm>.
2. Allocate the amount burned by adjusting the per capita factor for leaves at 25% and for brush at 25%. Of the total waste generated only 28% burns.

- Once all the percentages from above are calculated, multiply the adjusted per capita factor by the rural population for each county from the U.S. Census Bureau at <http://www.census.gov/>

Note: As of the data of this SOP, the following steps will lead to county rural population.

- Go to <http://www.census.gov/>
  - On the left hand side, select American Fact Finder
  - Select data sets
  - Detailed tables
  - County
  - Indiana
  - All counties
- Use the table below to adjust the amount of waste generated to account for the percentage of forest in each county. The percentages come from a document from the United States Department of Agriculture at [http://ncrs.fs.fed.us/pubs/rb/rb\\_nc253b.pdf](http://ncrs.fs.fed.us/pubs/rb/rb_nc253b.pdf).

Percent Forested Acres per County	Adjusted for Yard Waste Generated
< 10%	0% generated
>= 10%, and < 50%	50% generated
>= 50%	100% generated

- Now, multiply the amount of leaves and brush by the emission factors found in AP-42, Fifth Edition, Volume 1, Chapter 2, Solid Waste Disposal, Table 2.5-5, and Table 2.5-6 at <http://www.epa.gov/ttn/chief/ap42/ch02/final/c02s05.pdf>.

### 5.2.2: Residential Waste Incineration

SCC: 2610030000

Follow these steps when calculating emissions from for residential waste incineration:

- Find a per capita factor for residential waste incineration by using the U.S. EPA's Solid Waste Report at <http://www.epa.gov/epaoswer/non-hw/muncpl/pubs/mswchar05.pdf>.
- Using the Solid Waste Report above, subtract the percentage of recycled and composted material from the per capita factor above.
- Now, subtract the percentages of combustibles i.e. glass, metal, yard trimmings, and other waste.
- Using a document from EPA, it states that only 28% of waste generated by rural population burns and of that percent, 49% is actually combusted. Using this information multiply the per capita factor by 0.28 and then multiply that number by 0.49 actually burned in rural counties.
- Once all the percentages are calculated, multiply the adjusted per capita factor by the rural population for each county from the U.S. Census Bureau at <http://www.census.gov/>.

Note: Use steps 5.2.1-3 to find county rural population.

- Calculate the amount of residential waste by the emission factors in the EIIP, Volume 3, Chapter 16, Open Burning at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/index.html>.

### Sub-Category 5.3: Public Owned Treatment Works (POTW's)

SCC: 2630020000

Follow these steps when calculating emissions from POTW's:

1. To calculate the amount of annual flow for public owned treatment works, obtain the amount of monthly flow rate for each county. This is data is supplied by the Office of Water Quality. To calculate for annual flow multiply the monthly flow by the default of 0.16 that represents the amount of industrial flow.
2. Calculate the process rate above by the emission factors in FIRE 6.25 using the SCC code 2630020000.

#### **Sub-Category 5.4: Treatment, Storage, and Disposal Facilities**

SCC: 2640000004

Follow these steps when calculating emissions from treatment, storage, and disposal facilities:

1. Obtain a list of treatment facilities and the amount of ignitable waste from each facility from IDEM's Office of Land Quality.
2. Using the list of facilities from step 1, run a query using the ACCESS data tables at K:\OAQ\_INV\Steptool\Stptl\_02.mdb to obtain the amount of ignitable waste reported to IDEM's Office of Air Quality.
3. Compare the two lists obtained in step 1 and step 2, for each facility subtract any quantity reported to OAQ from the quantity reported to OLQ. Do this in order to avoid double counting quantities reported to both offices. Combine the quantities reported from facilities within the same counties. Use these quantities as the process rate for each county.
4. Multiply the process rate above with the combined emission factor in the table below:

<b>Emission Source</b>	<b>Emission Factor in AP-42 (lb VOC/Ton)</b>	<b>Emission Factor Used (lb VOC/Ton)</b>
Storage Tank Vent	0.004-0.09	0.09
Spillage (filling)	0.20	0.20
Loading (filling)	0.00024-1.42	1.42
Spillage (emptying)	0.20	0.20
Loading (emptying)	0.00024-1.42	1.42
<b>Combined Emission Factor</b>		<b>3.33</b>

### **Category 6: Submit Data to EPA**

Submit data in a format that is acceptable to EPA. At the present time the format is the National Emission Inventory (NEI).

#### **6. Standards and checklists**

The Emission Reporting program does not have any checklist for the Area Source Inventory at this time. The Emission Group does this electronically through an excel spreadsheet that is created when needed.

#### **7. Records Management**

The Area Source Inventory files are kept electronically at K:\OAQ\_INV\Inv\Area Source.

The Branch Contact for the Air Programs Branch and the Section contact for the Technical Support and Modeling Section will keep copies of the SOPs for the Technical Support and Modeling Section to be referenced as needed. An electronic copy will also be available on K:\OAQ\_INV\SOPs.

## 8. Quality Assurance / Quality Control

Comparisons are made against the emissions estimates made by The U.S. EPA in the NEI.

## 9. Continuous Improvement Cycle

A periodic review will be completed per updates and changes made to the EIIP.

## 10. References

The Area Source Inventory is a requirement of 40 CFR Part 51 Subpart A - Emission Inventory Reporting Requirements.

## 11. History of Revisions

<b>Date Month/day/year</b>	<b>Revision Number</b>	<b>Description</b>
02/27/2008	1	Revised using new SOP template.

## 12. Appendices

None

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# **APPENDIX I-1**

## **LADCO Modeling Protocol**

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**Modeling Protocol:  
2005 Basecase Technical Details**

Kirk Baker

October 19, 2007

Lake Michigan Air Directors Consortium  
Midwest Regional Planning Organization

Rosemont, Illinois

## 1. INTRODUCTION

The purpose of this document is to provide technical details relating to photochemical modeling done to support State Implementation Plans for ozone, PM<sub>2.5</sub>, and regional haze using the 2005 base year. Information relevant for the 2005 basecase is presented in this document. Documents that relate to a conceptual description of ozone, PM<sub>2.5</sub>, and regional haze in the Upper Midwest are available on the organization website: [www.ladco.org](http://www.ladco.org).

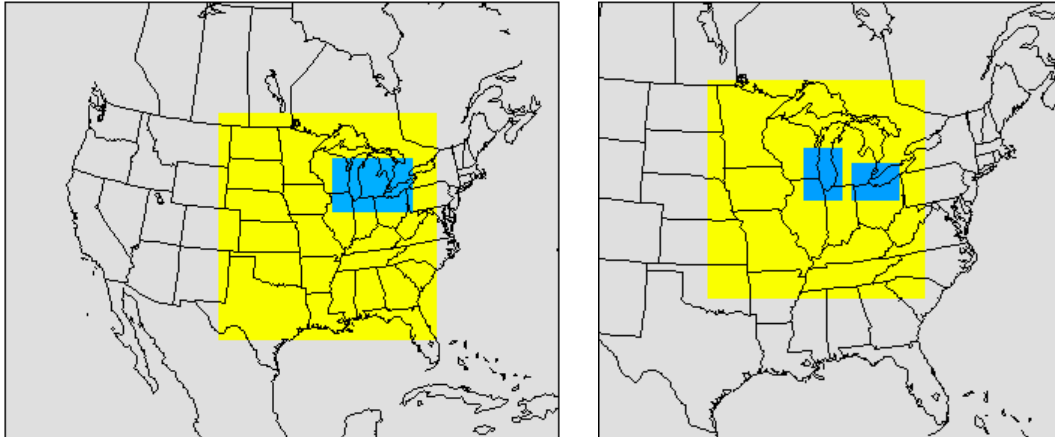
The computing platforms are Intel-based PCs running variations of the Linux operating system. The Portland Group (PGI) Fortran compiler is used to create all executables.

## 2. METHODOLOGY

### Grid Projection and Domains (same as 2002 protocol)

All models are applied with a Lambert projection centered at (-97, 40) and true latitudes at 33 and 45. The 36 km photochemical modeling domain consists of 97 cells in the X direction and 90 cells in the Y direction covering the central and eastern United States with 36 km grid cells (Figure 2.1; Table 2.1). The 2-way nested 12 km photochemical domain covers most of the upper Midwest region. A 2-way nested 4 km photochemical domain is situated over the lower portion of Lake Michigan and over Detroit-Toledo-Cleveland.

Figure 2.1 Modeling Domains: Meteorological (left), photochemical (right)



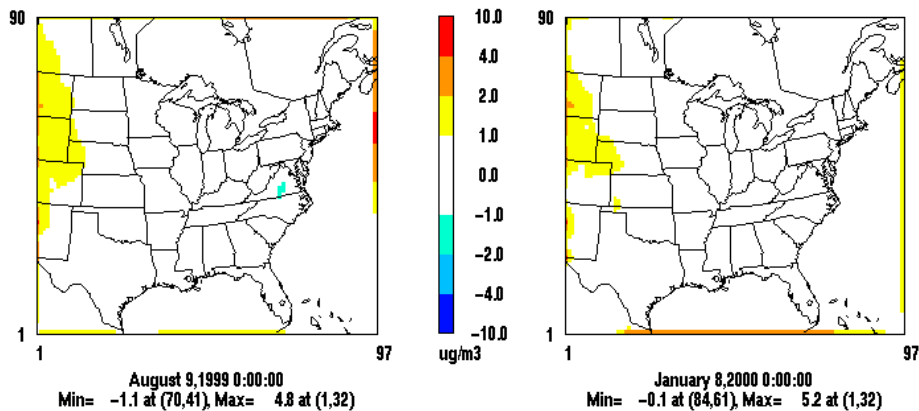
The 36 km meteorological modeling domain covers the entire continental United States (Figure 2.1; Table 2.1). The 12 km meteorological domain covers most of the central and eastern United States and the 4 km domain covers the lower portion of the Great Lakes. CAMx4 is applied with the vertical atmosphere resolved with 16 layers up to approximately 15 kilometers above ground level.

Table 2.1 Modeling Domains

Grid	Cell Size	XY Origin (km)	NX, NY
Emissions	36 km	(-2628., -1980.)	147, 111
Meteorological	4 km	(576., 108.)	214, 142
Meteorological	12 km	(-648., -1260.)	193, 199
Meteorological	36 km	(-2952., -2304.)	165, 129
Photochemical	36 km	(-900., -1620.)	97, 90
Photochemical (lm)	4 km	(608., 140.)	83, 128
Photochemical (detcle)	4 km	(1040., 176.)	74, 56
Photochemical/Emissions	12 km	(-48., -552.)	131,131

The photochemical model is not being applied to the entire 36 km Continental U.S. domain to maximize resources. A sensitivity study was conducted to compare winter and summer episode averaged PM<sub>2.5</sub> concentrations between a Continental U.S. domain and Central/Eastern U.S. domain using clean boundary conditions released with the CMAQ model. The episode average differences in PM<sub>2.5</sub> were less than 1 ug/m<sup>3</sup> in the Midwest RPO States and neighboring States (Figure 2.2).

Figure 2.2 Continental Domain – Central/Eastern U.S. Domain Episode Average PM<sub>2.5</sub> Difference Plots for Summer (left) and Winter (right) episodes



## Meteorological Inputs

The meteorological input data for 2005 modeling are developed with the National Center for Atmospheric Research (NCAR) 5<sup>th</sup> generation Mesoscale Model (MM5) version 3.6 (Dudhia, 1993; Grell et al, 1994) by Alpine Geophysics, LLC under contract from the Midwest Ozone Group. MM5 physics options and configurations for the 2005 simulations are the same as used for 2002 simulations (McNally and Schewe, 2006; Baker et al, 2007c). Important MM5 parameterizations and physics options include mixed phase (Reisner 1) microphysics, Kain-Fritsch 2 cumulus scheme, Rapid Radiative Transfer Model, Pleim-Chang planetary boundary layer (PBL), and the Pleim-Xiu land surface module. Analysis nudging for temperature and moisture is only applied above the boundary layer. Analysis nudging of the wind field is applied above and below the boundary layer.

MM5 performance for 2005 was evaluated by Alpine Geophysics for the Midwest Ozone Group and independently by Lake Michigan Air Directors Consortium. Performance for 2005 is considered comparable to 2002 performance and appropriate for regulatory modeling (Baker et al, 2007).

The meteorological fields output by MM5 are prepared for use by the photochemical model with processing utilities. These programs translate certain meteorological parameters from the MM5 grid to the photochemical grid. Additionally, these processors estimate parameters such as vertical diffusivity coefficients that are not explicitly output by MM5. The MM5CAMx version 4.4 utility is used to translate MM5 output to CAMx input. The vertical diffusivity coefficients are based on the O'Brien 1970 vertical diffusivity algorithm. This scheme takes the PBL height output by MM5 and creates a well-mixed atmosphere inside the PBL. The minimum vertical diffusivity coefficient is  $0.1 \text{ m}^2/\text{s}$ . A landuse-weighted vertical diffusivity coefficient (maximum of  $1.0 \text{ m}^2/\text{s}$  in a completely urban grid cell) is assigned to all grid cells up to approximately 150 meters above ground (model layer 3).

The vertical resolution used in MM5 consists of 34 sigma layers that represent the terrain following atmosphere up to 100 millibars. Figure 2.7 displays each vertical layer in terms of sigma level, pressure (millibars), height above ground level (meters) and layer thickness (meters). The relationship to the layer structure used in the photochemical models is also shown. The photochemical model layer structure avoids layer collapsing in the lower boundary layer to better resolve the mixing depth.

Figure 2.7 Vertical Layer Structure

k(MM5)	sigma	p(mb)	depth(m)	k(PCM)	depth(m)
34	0.000	100	1841	16	5597
33	0.050	145	1466		
32	0.100	190	1228		
31	0.150	235	1062		
30	0.200	280	939	15	2549
29	0.250	325	843		
28	0.300	370	767		
27	0.350	415	704	14	2533
26	0.400	460	652		
25	0.450	505	607		
24	0.500	550	569		
23	0.550	595	536	13	1522
22	0.600	640	506		
21	0.650	685	480		
20	0.700	730	367	12	634
19	0.740	766	266		
18	0.770	793	259	11	428
17	0.800	820	169		
16	0.820	838	166	10	329
15	0.840	856	163		
14	0.860	874	160	9	318
13	0.880	892	158		
12	0.900	910	78	8	155
11	0.910	919	77		
10	0.920	928	77	7	153
9	0.930	937	76		
8	0.940	946	76	6	151
7	0.950	955	75		
6	0.960	964	74	5	148
5	0.970	973	74		
4	0.980	982	37	4	37
3	0.985	987	37	3	37
2	0.990	991	36	2	36
1	0.995	996	36	1	36
--SURF--	1	1000	0	--SURF--	--SURF--

A compromise in the upper troposphere is met by employing layer collapsing to reduce computational effort and still maintain some upper troposphere resolution for long-range transport. The layer structure chosen for a modeling application should be capable of adequately resolving the diurnal variations in the boundary layer growth and mixing, long-range transport processes, wind shear, as well as transport to and from the free troposphere.

## **Emissions Inputs**

Emissions developed for the 2005 basecase and future year inventories projected from 2005 are discussed in the “Base M/Round 5 Emissions Report” (LADCO, 2007). Anthropogenic emissions are developed for a weekday, Saturday, and Sunday for each month of 2005. On-road motor vehicle emissions were developed for a January and July weekday, Saturday, and Sunday. On-road motor vehicle emissions for other months are interpolated between the January and July estimates. On-road and biogenic volatile organic carbon (VOC) emissions are speciated for the CB05 chemical speciation profile (Environ CB05 report). All other sectors of the inventory are speciated for the CB-IV chemical speciation profile (Carter, 1996). CB-IV emissions are useable with CB05 chemistry (Environ CB05 report).

The Model of Emissions of Gases and Aerosols from Nature (MEGAN) was recently developed as the next generation emission model for biogenic emissions of gases and aerosols (Guenther and Wiedinmyer, 2006). MEGAN has been implemented into the CONSolidated Community Emissions Processing Tool (CONCEPT) emissions modeling framework (Wilkinson, 2006). Biogenic emissions are estimated for each day of the simulation using the MEGAN model as implemented in CONCEPT (Baker, 2007d). MEGAN explicitly outputs import biogenic secondary organic aerosol pre-cursor species including monoterpenes and sesquiterpenes that are used by the CAMx SOA chemistry module.

MEGAN groups plants and area coverages by plant functional type (PFT) rather than treating plant species explicitly as in the BIOME (and BEIS) models. Total emissions are the sum of emissions estimated for each PFT in a given grid cell. PFTs include broadleaf trees, fine leaf evergreen trees, fine leaf deciduous trees, shrubs, grass, and crops. Plant functional type data has been gridded to a scale of 30 seconds by 30 seconds and made available with the MEGAN model (Guenther et al, 2006). Soil wilting point data and leaf area index are also gridded to the same scale and used as input to MEGAN.

Volatile organic compounds are speciated to the Carbon Bond 2005 chemical speciation profile. Inputs to the biogenic model include hourly satellite photosynthetically activated radiation (PAR) and 15 m (above ground level) temperature data output from MM5 (Pinker and Laszlo, 1992). Other inputs to MEGAN include plant functional type (PFT) emission factors, PFT area coverage, soil wilting point data, leaf area index, and additional meteorological variables including soil moisture. Soil moisture estimated by MM5 for the 1 m soil depth is used as input to MEGAN because it represents the plant root layer.

## **Landuse (same as 2002 protocol)**

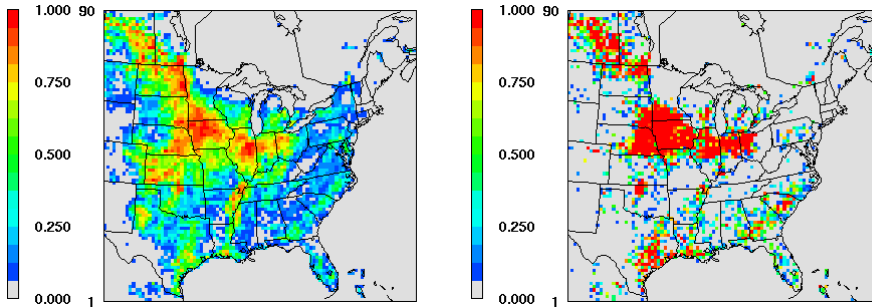
The photochemical model uses 11 land use categories to describe the surface. The land use file is based on BELD3 1 km data (US EPA, 2006; Kinnee et al. 1997; Kinnee et al. *in press*). The 1 km data was aggregated to the appropriate grid resolution for photochemical modeling. Surface roughness varies by season and land use category and are taken from EPA’s AERMET User’s Guide (EPA, 2004; ENVIRON, 2007).

Table 2.3 Landuse categories

Category	Landuse
1	Urban
2	Agricultural
3	Rangeland
4	Deciduous forest
5	Coniferous forest
6	Mixed forest
7	Water
8	Mixed agriculture/forest
9	Non-forested wetlands
10	Mixed agriculture/range
11	Rocky with low shrubs

USGS data was previously used for landuse information. The BELD3 was chosen because it incorporates the USGS data with other sources of information such as satellite data. A spatial comparison of the agriculture (category 2) landuse fractions are shown below.

Figure 2.8 BELD3 (left) and USGS (right) agriculture landuse



### Drought Stress and Snow Cover (same as 2002 protocol)

The Palmer Drought Severity Index (PDSI) is an indicator of unusual excess or deficient moisture. The PDSI is calculated for 350 climatic divisions in the United States and Puerto Rico. PDSI data is available for each week of a calendar year and is obtained from the National Weather Service Climate Prediction Center (National Weather Service, 2005). The dry deposition calculations for non-water landuse categories are impacted by vegetative response to drought stress (ENVIRON, 2007).

Snow cover is also input to CAMx4 for the deposition scheme. Three-hourly snow cover data for each grid cell is extracted from MM5 output files. If snow exists in a grid cell, the deposition characteristics of the landuse are switched from “winter” to “winter with snow.” This switch has an impact on surface resistances for dry deposition, surface roughness, and chemistry due to the ultraviolet albedo being changed to the maximum class (ENVIRON, 2007).

### Photolysis Rates (same as 2002 protocol)



Many chemical reactions in the atmosphere are started by the photolysis of certain trace gases. Photochemical models require these rates be input to accurately estimate these reactions. CAMx4 is applied with day specific photolysis rate look-up tables.

The Tropospheric Ultraviolet-Visible (TUV) radiation model is used to calculate photolysis rates based on solar zenith angle, height above ground, ultraviolet albedo of the ground, atmospheric turbidity, and total ozone column density. The TUV generates rates for each day as a function of 11 heights, 10 solar zenith angles, 5 ozone column values, 5 albedo values, and 3 turbidity values (ENVIRON, 2007; NCAR, 2006).

The ozone column data is derived from daily TOMS satellite observations (NASA, 2006). The albedo data varies by month and is based on over 10 years of TOMS satellite reflectivity observations. Actinic flux is estimated using the discrete ordinate algorithm. The two-stream delta-Eddington method is also available in the TUV model, but was not selected because the discrete ordinate approach is more accurate.

A sensitivity application with CMAQ using TOMS derived photolysis rates and rates based on seasonal average ozone column showed differences in ozone up to 3 ppb and differences in sulfate ion up to  $1.5 \mu\text{g}/\text{m}^3$ . These differences suggest day specific ozone column data from satellites should be used rather than seasonal averages and that accurate photolysis rates are important for ozone and particulate matter applications.

For those days that do not have TOMS ozone column data, the data from the previous day is used instead. This option is more realistic than defaulting to a seasonal average, which may create a rather large discontinuity between the missing day and adjoining simulation days.

### **Initial and Boundary Conditions (same as 2002 protocol)**

Boundary conditions represent pollution inflow into the model from the lateral edges of the grid and initial conditions provide an estimation of pollution that already exists. In the past a spin-up period of two to three days was used to eliminate initial condition effects for ozone modeling.

CAMx4 source apportionment runs show ozone attributed to initial concentrations does not exceed 5 ppb anywhere in the domain by the 7<sup>th</sup> day of the episode; ozone modeling episodes will be spun up with 11 days. The monitors used in model performance evaluation are far enough away from the boundaries that boundary influence is considered minimal.

CAMx4 particulate source apportionment (PSAT) runs show PM<sub>2.5</sub> sulfate ion, nitrate ion, and ammonium ion contributions from initial concentrations fall below  $0.05 \mu\text{g}/\text{m}^3$  by the seventh day of the episode. PM<sub>2.5</sub> elemental carbon, PM<sub>2.5</sub> soil, and coarse mass have less than  $1 \text{ ng}/\text{m}^3$  contribution from initial concentrations on the first day of the model episode everywhere in the modeling domain. Since gas phase chemistry is coupled with particulate formation, the annual simulations have two weeks of spin-up to minimize initial condition influence.

The initial and boundary conditions are based on monthly averaged species output from an annual (calendar year 2002) application of the GEOS-CHEM global chemical transport model (Jacob et al, 2005; Bey et al, 2001). Boundary conditions vary by month and in the horizontal and vertical direction. Where an initial or boundary concentration is not specified for a pollutant the model will default to a near-zero concentration.

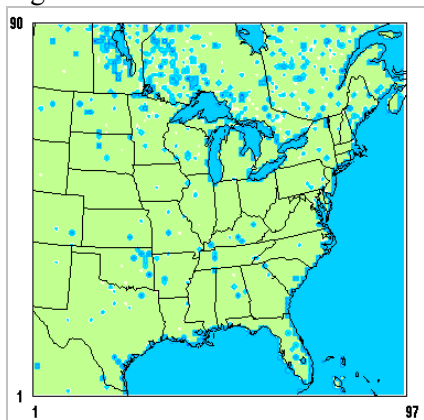
A study applying CMAQ with monthly averaged and 3-hr GEOS-CHEM initial and boundary conditions showed almost no change in model performance for any PM<sub>2.5</sub> species. The error for total PM<sub>2.5</sub> and each of the chemical species differed by less than 0.04 ug/m<sup>3</sup> at IMPROVE and EPA STN monitor sites (Morris et al, 2004b). Considering the need to model multiple annual simulations and potential issues related with inconsistencies between in-flows and out-flows between the GEOS-CHEM meteorology and the MM5 simulation used for regional modeling, the monthly averaged concentrations are used to support photochemical modeling applications.

### **Quality Assurance of Model Inputs (same as 2002 protocol)**

The model input files are checked for reasonableness to ensure they accurately represent the underlying data used to create the files. The checks described in this document are steps that are in addition to the extensive QA done in the emission inventory compilation process, EMS emissions modeling, and MM5 modeling process.

The landuse files are converted to a CAMx4 output file format and directly viewed in PAVE over a political map. An example of the water landuse category is shown in the figure in this section.

Figure 2.9 Water landuse



The initial and boundary conditions processor outputs an ASCII file showing the specie concentration at each vertical layer. This is visualized in EXCEL to make sure the data is correctly mapped in the vertical direction. The initial and boundary concentration files themselves are also directly viewed in PAVE and the spatial representation is checked. The ozone column, albedo, and turbidity data are kept in ASCII files. Each file is checked to ensure the data looks spatially reasonable and that bad data did not get included in the file.

The emissions inputs are extensively checked for appropriateness. The steps taken in manipulating EMS-2003 output files to CAMx4 input files and the quality assurance of those files are detailed in “Emissions Processing and QA” (Baker, 2004b). Each emission file is checked for spatial and temporal agreement with EMS-2003 and for reasonableness. Additionally, the mass for each species is totaled by State and over the entire modeling domain and compared to EMS-2003 QA reports.

The MM5 output used to support the photochemical modeling is extensively evaluated from a meteorological perspective. An additional layer of quality assurance is done by evaluating model performance of the air quality model input meteorological data at several monitor locations. This is done for temperature, relative humidity, wind speed, and wind direction.

Photochemical model simulations also provide a level of quality assurance since deficiencies in emissions and meteorological inputs will be apparent in the photochemical model performance.

### **Photochemical Model Configuration**

The Comprehensive Air Quality Model with Extensions (CAMx) version 4.50 uses state of the science routines to model particulate matter formation and removal processes over a large modeling domain (Nobel et al. 2002; Tanaka et al. 2003; Chen et al. 2003; Morris, Mansell, Tai, 2004). The model is applied with ISORROPIA inorganic chemistry, SOAP organic chemistry, regional acid deposition model (RADM) aqueous phase chemistry, and the carbon-bond 2005 (CB05) gas phase chemistry module (ENVIRON, 2007; Nenes et al, 1998; ENVIRON, 2007). CAMx4 is applied using the PPM horizontal transport scheme and an implicit vertical transport scheme with the fast CMC chemistry solver (ENVIRON, 2007). The chemical mechanism 6 is selected for the 2005 simulations, which includes additional PM<sub>2.5</sub> secondary organic aerosol formation (ENVIRON, 2006; ENVIRON 2007). An updated dry deposition scheme that is based on AEROMOD is chosen for the 2005 simulations. This scheme uses gridded monthly leaf area index to adjust dry deposition velocities (Kemball-Cook et al, 2007).

CAMx4 models PM particles in the fine and coarse size fraction. There is no mechanism in the model to transfer mass between these 2 size sections. The particle density and diameter does not change from specie specific input values during a model simulation for either particle size bin.

The photochemical model is initiated at midnight Eastern Standard Time and run for 24 hours for each episode day. The summer 2005 simulation is initiated on June 2 and run through September 15. The annual simulation is run separately by calendar quarter and is initiated 2 weeks prior to each quarter: December 17 (2004), March 15, June 15, and September 15. The base and future year scenarios submitted as support for the annual PM<sub>2.5</sub> standard will be using a horizontal grid resolution of 12 km. The modeling to support the 8-hr Ozone NAAQS will be at 12 km horizontal resolution over the entire upper Midwest with optional 2-way nested 4 km grids over the lower portion of Lake Michigan and over the Detroit-Toledo-Cleveland region.

Future year simulations will be applied with the same model configuration as for the base case simulation. All inputs except for emissions will be the same in the future year and base year simulations to assess changes in ozone, visibility, and PM<sub>2.5</sub> due to control strategies and future growth. The terms base case and base line emissions inventories are one in the same, both referring to day specific biogenics and monthly weekday, Saturday, Sunday anthropogenic emissions.

### **Plume-in-Grid and Nesting**

The GREASD sub-grid plume treatment option is being applied in CAMx4 for the summer season 12 km ozone simulations. This option is selected to improve the model treatment of large NO<sub>x</sub> plumes being released near Lake Michigan and Lake Erie. Sources included for the plume-in-grid treatment include any source near the Great Lakes with NO<sub>x</sub> emissions greater than 12 tons per day for any day of the summer in 2005 and 6 tons per day in future year scenarios.

At high grid resolutions of 4 km or finer, sub-grid scale treatment of plumes should not be applied since the fine grid appropriately captures the small scale physical and chemical processes.

Nested grids are useful to keep computational and data management resources acceptable while addressing important model application issues such as complex terrain, land-sea or land-lake breezes, and spatial emission gradients. They may also be useful to keep large point source plumes in smaller grid cells in lieu of having explicit sub-grid scale plume treatments.

CAMx4 allows for the inclusion of a fine grid within the coarse grid in a 2-way nesting mode. The 2-way nesting mode allows for interaction between the larger coarse grid with the smaller fine grid. This improves pollutant transport around the boundaries of the fine grid since a parcel of air may move from the fine grid, out to the coarse grid, and back into the fine grid depending on the shifting wind fields. This re-circulation is impossible in 1-way nesting applications.

### **Probing Tools**

Probing tools are valuable from a scientific and regulatory perspective for one-atmosphere modeling. Use of source apportionment is more desirable for regulatory applications than the use of the “zero-out” approach to determine geographic and emissions sector culpability for long-term modeling simulations. Zeroing out emissions for large regions such as entire States fundamentally changes the atmospheric chemistry and makes interpretation of the results difficult.

An option in CAMx is employed to force elevated point sources into particular regions rather than placement based on coordinates and the 12 km geographic region map. This ensures that elevated emissions are placed in the appropriate geographic region and not incorrectly grouped with another region when a grid cell contains the boundary for more than one region. A good example of this is the Ohio River Valley where many large stationary point sources exist along State boundaries and could be grouped into the wrong region based on the 12 km grid cell source region map. This option improves the confidence in the source apportionment results for stationary point sources.

### *Ozone*

CAMx is a state of the science photochemical model that contains a variety of ozone source apportionment tools, including the original ozone source apportionment tool (OSAT) and the anthropogenic pre-cursor culpability assessment (APCA) tool. The APCA tool assesses regional and emission sector contribution to ozone formation and provides information that is most policy relevant. When ozone is formed under VOC limited conditions due to biogenic VOC + anthropogenic NO<sub>x</sub> then OSAT attributes it to the biogenic VOC sources. When ozone is formed under NO<sub>x</sub>-limited conditions due to biogenic VOC + anthropogenic NO<sub>x</sub> then OSAT attributes it to the anthropogenic NO<sub>x</sub> sources. APCA is designed to provide more control strategy relevant information and recognizes that there are source categories such as biogenics that can not be controlled so the model only attributes ozone to biogenics when it is due to the interaction of biogenic VOC + biogenic NO<sub>x</sub>. In the case where ozone formed to biogenic VOC + anthropogenic NO<sub>x</sub> under VOC-limited conditions, OSAT attributes it to biogenic VOC, but APCA redirects the attribution to anthropogenic NO<sub>x</sub>. In NO<sub>x</sub>-limited conditions both OSAT and APCA attribute the ozone to anthropogenic NO<sub>x</sub> (ENVIRON, 2007). The APCA tool is chosen to track ozone contribution for this modeling study.

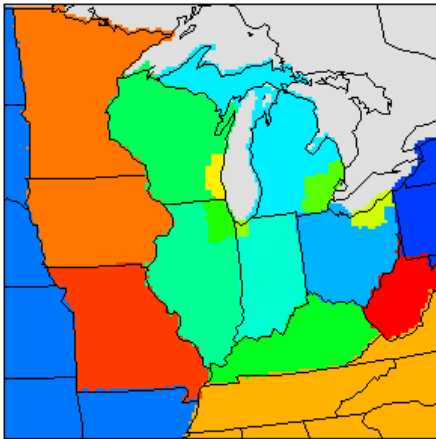
The source apportionment data is the average contribution over all modeled hours where predicted ozone at the monitor is greater than a threshold concentration value. Two different thresholds are used to examine different distributions of high modeled 8-hour ozone: 75 and 85 ppb (Baker, 2007). The geographic regions tracked for ozone contribution are listed in Table 2.4

and shown graphically in Figure 2.10 over the 12 km modeling domain. The contribution from the lateral and top boundaries of the model is also tracked for each receptor location.

Table 2.4 Complete list of source regions tracked for ozone contribution

Canada	Illinois Chicago non-attainment (NA) Counties
Northeast States (MANE-VU)	Detroit NA Counties
Central/Western States (CENRAP+ WRAP)	Indiana Chicago NA Counties
Ohio	Cleveland NA Counties
Michigan	Milwaukee NA Counties
Indiana	Southeast States (VISTAS)
Illinois	Minnesota+Iowa
Wisconsin	Missouri
Kentucky	West Virginia

Figure 2.10 Source regions tracked in the 12 km grid domain



Six emissions source sectors are tracked for contribution to ozone: onroad mobile, offroad mobile, area, electrical generating units, non-electrical generating units, and biogenics. Offroad mobile emissions include sources such as construction equipment, locomotives, commercial marine vessels, and airports. Two distinct groups of stationary point sources are tracked for contribution to ozone: electrical generating units and non-electrical generating units.

#### *Particulate Matter and Visibility*

The Particulate Source Apportionment Tool (PSAT) tracks contributions of PM<sub>2.5</sub> sulfate ion, nitrate ion, ammonium ion, elemental carbon, and primary emissions of organic aerosol, soil, and coarse mass. Secondary organic aerosol tracking is also part of the tool but not employed for this study due to resource constraints. Secondary organic aerosol contributions from biogenic and anthropogenic sources are part of the standard CAMx output and included in the analysis.

Source apportionment results will be estimated on an annual average basis and on a daily 24-hr basis to be relevant to the annual and 24-hr PM<sub>2.5</sub> NAAQS. The 24-hr average source apportionment results for the 20% worst and 20% best days at the Class I area receptors will be converted to light extinction then averaged together using the latest IMPROVE Steering Committee recommended equation (IMPROVE, 2006). Contributions from initial conditions are quantified to determine an optimal amount of spin-up time required to minimize the impacts from initial concentrations.

The geographic regions tracked for contribution are listed in Table 2.5 and shown graphically in Figure 2.11. The contribution from the lateral and top boundaries of the model is also tracked for each receptor location.

Figure 2.11 Model domain and source regions tracked with PSAT

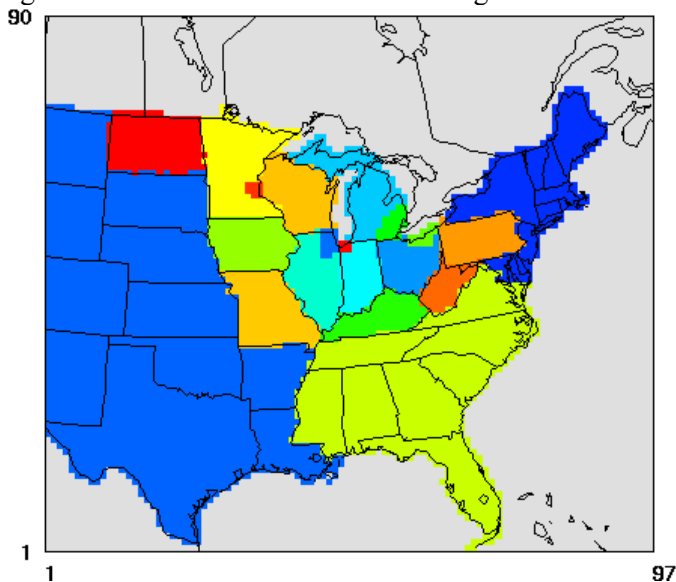


Table 2.5 Complete list of source regions tracked for contribution

Canada	Illinois Chicago non-attainment (NA) Counties
Northeast States (MANE-VU)	Detroit NA Counties
Central/Western States (CENRAP+ WRAP)	Indiana Chicago NA Counties
Ohio	Cleveland NA Counties
Michigan	Milwaukee NA Counties
Indiana	Southeast States (VISTAS)
Illinois	Minnesota
Wisconsin	Minneapolis-St. Paul
Kentucky	West Virginia
Iowa	North Dakota
Missouri	

Seven emissions source sectors are tracked for contribution to particulate matter: onroad mobile, offroad mobile, area, electrical generating units, non-electrical generating units, agricultural ammonia, and biogenics.

### 3. Model Performance Evaluation (same as 2002 protocol)

State Implementation Plans will include modeling the impacts of emission control scenarios with 3-D Eulerian photochemical transport models. Model performance is typically evaluated on an operational basis and rarely to support a diagnostic (dynamic) assessment. Operational evaluations for ozone modeling purposes include matching model estimates with observation data for ozone, nitrogen oxides (NO<sub>x</sub>), and total volatile organic compounds (VOC). Operational evaluations for PM<sub>2.5</sub> and visibility modeling purposes include matching model estimates with observation data for chemically speciated PM<sub>2.5</sub> and important pre-cursor species including sulfur dioxide, nitric acid, and ammonia.

A diagnostic evaluation assesses how appropriately the modeling system responds to emissions adjustments. Since the modeled attainment demonstration includes modeling current and future year emissions it is important to have confidence that the model will predict concentrations appropriately when emissions change (US EPA, 2007). This type of evaluation includes modeling two different ozone episodes that are separated by enough years that large emissions differences exist. The diagnostic evaluation is an important assessment to make in addition to an operational evaluation because it is directly linked to the end use of the model, which is modeling the change in ozone concentrations after emissions adjustments.

A comparison between observed and estimated ozone for the summers of 2002 and 2005 is useful for a diagnostic assessment because high quality emission inventories were developed for each year and a large NO<sub>x</sub> emissions reduction occurred between these years due in part to NO<sub>x</sub> SIP Call compliance. Modeling two full summer seasons provides an opportunity to make another diagnostic evaluation which assesses model performance for high ozone by day of the week (Baker, 2007b). Emissions change substantially from weekday to weekend and having two full summers provides enough days with high ozone on each day of the week to make this type of evaluation useful.

The photochemical modeling applications are designed to support the development of regional control strategies for PM<sub>2.5</sub> and Regional Haze. EPA guidance states that an attainment test for either standard will require the use of chemically speciated PM relative reduction factors (US EPA, 2007). Additionally, the model will be used to assess improvements in PM<sub>2.5</sub> concentrations and visibility as a result of changes in emissions. These prominent end-uses of the modeling applications make comprehensive evaluations important. Clearly, reliance on model performance for PM<sub>2.5</sub> total mass would be misleading since it is likely that the model and ambient data could estimate the same total mass but very different chemical composition. This scenario would compromise the development and interpretation of potential regulatory control strategies (Baker, 2004d).

The species to be compared to monitor concentrations include ozone, total VOC, NO<sub>x</sub>, SO<sub>2</sub>, NH<sub>3</sub>, HNO<sub>3</sub>, and speciated PM<sub>2.5</sub> (see Table 3.1). Initially, scatter-plots of point-to-point relationships for all monitors in the domain for all episode days will be used for analysis for PM. This will allow for identification of gross model over or under-prediction by specie. Gas and aerosol data are taken from a variety of monitor networks for comparison to modeled estimates: IMPROVE, EPA Speciation Trends (STN), AIRS, and PAMS. The data is obtained directly from the VIEWS website and from the AFS database; a comparison of the monitor species to model species is shown below. PM<sub>2.5</sub> ammonium ion is only measured at EPA Speciation Trends locations so the model performance for this chemical specie is dominated by, but not limited to, urban measurement locations.



Table 3.1 Species mapping between modeled and observed species (observed species from the VIEWS website)			
	IMPROVE	STN	CAMx4 species
Sulfate aerosol	SO4f	SO4f	PSO4
Nitrate aerosol	NO3f	NO3f	PNO3
Ammonium aerosol		NH4f	PNH4
Organic aerosol	OCf*FACTOR  FACTOR = 1.6 rural 2.1 urban	OCf*FACTOR  FACTOR = 1.6 rural 2.1 urban	SOA1+SOA2+ SOA3+SOA4+ SOA5+POA
Elemental carbon	ECf	ECf	PEC
Soil/Crustal	SOILf	SOIL = 2.2*ALf + 2.49*SI f+1.63*CAf+ 2.42*FEf+1.94*TI f	FCRS
PM2.5 other	MF-RCFM	MF-(RCFM)	FPRM
Coarse mass	CM calculated		CPRM+CCRS
PM2.5	MF	MF	PSO4+PNO3+PNH4+POA+ SOA1+SOA2+SOA3+SOA4+ SOA5+PEC+NA+PCL+ FPRM+FCRS
Re-constructed fine mass	RCFM	RCFM = SO4f+NO3f+ NH4f+OCf*FACTOR+ ECf+(SOIL)	1.375*PSO4+1.29*PNO3+ POA+SOA1+SOA2+SOA3+ SOA4+SOA5+PEC+NA+ PCL+FPRM+FCRS
Re-constructed bext	aerosol_bext		fRH*[4.125*PSO4+ 3.87*PNO3]+4*(SOA1+SOA2+ SOA3+SOA4+SOA5+POA)+ 10*PEC+NA+PCL+FPRM+FCRS+ 0.6*(CPRM+CCRS)

Model performance evaluation plots and metrics will be based on matching predictions and observations in time and space. There will not be any averaging over multiple-cell regions to match with an observation value. Qualitative evaluation will be done largely through graphical comparison of predictions and observations using spatial plots, time series plots, and scatter plots. The US EPA modeling guidance recommends against using any bright-line evaluation of performance metrics to determine whether the modeling is satisfactory (US EPA, 2007).

### 3.1 Particulate Matter and Regional Haze

The components of the visibility equation match up very closely to the prominent chemical forms of PM2.5: nitrate ion, sulfate ion, ammonium ion, organic carbon, elemental carbon, and soil (US EPA, 2007). Since these modeling applications will support PM2.5/Haze rules, model performance will be most rigorous for each of these PM2.5 species and coarse mass.

One of the problems related to PM model performance evaluation involves matching inconsistent monitor methodologies and model specie definition. Additionally, speciated measurements rarely add up to measurements of total fine mass. This unexplained fraction is usually attributed to the retention of water on the weighed samples (Timin, 2002). Other problems with comparing speciation samples and FRM measurements include volatilization of nitrate and positive and negative organic carbon artifacts (Timin, 2002).

Organic material is typically estimated from organic carbon using a 1.4 factor, which is based on the assumption that carbon accounts for 70% of the organic mass. Recent literature recommends a factor of  $1.6 \pm 0.2$  for urban aerosol and  $2.1 \pm 0.2$  for non-urban areas that would see more aged aerosol (Turpin and Lim, 2001; IMPROVE, 2006). These factors are applied to the observation data based on landuse type before being compared to model output. These factors may also be used to reduce modeled estimates of organic material to organic carbon.

Performance metrics used to describe model performance for PM<sub>2.5</sub> species include mean bias, gross error, fractional bias, and fractional error (Table 3.2) (US EPA, 2007; Boylan et al, 2006). The bias and error metrics are used to describe performance in terms of the measured concentration units ( $\mu\text{g}/\text{m}^3$ ). Even though the distribution of PM<sub>2.5</sub> is log-normal, the data is not transformed for this analysis. The model attainment tests outlined by EPA for the PM<sub>2.5</sub> NAAQS and Regional Haze rule require relative reduction factors to be applied to actual concentrations and not transformed concentrations. No minimum value is used to eliminate data points for the purposes of this analysis.

Table 3.2. Model Performance Metrics.

Mean Bias	$= \frac{1}{N \times M} \sum_{i=1}^N \sum_{j=1}^M (P_i^j - O_i^j)$
Gross Error	$= \frac{1}{N \times M} \sum_{i=1}^N \sum_{j=1}^M  P_i^j - O_i^j $
Fractional Bias	$= \frac{1}{N \times M} \sum_{i=1}^N \sum_{j=1}^M \left( 2 \times \frac{P_i^j - O_i^j}{P_i^j + O_i^j} \right)$
Fractional Gross Error	$= \frac{1}{N \times M} \sum_{i=1}^N \sum_{j=1}^M \left  2 \times \frac{P_i^j - O_i^j}{P_i^j + O_i^j} \right $

\*P=model prediction; O=observation; N=number of days; M=number of monitors

Fractional bias and fractional error metrics are useful for comparison of model performance between species that tend to have large concentrations and those with small concentrations. It also helps compare performance of the same specie if concentrations are very large in some seasons and very small in others. The fractional metrics are best when close to 0 and worst when close to 2.

### 3.2 Ozone

Hourly running 8-hour averaged surface ozone observations from EPA's AIRS database are matched to hourly running 8-hour averaged layer 1 (30 m height) model estimates for evaluation. Only monitors in the 12 km modeling domain are included in the analysis. Model performance evaluation plots and metrics are based on matching predictions and observations in time and space. EPA has suggested several statistical metrics to describe model performance and include mean normalized bias error (MNBE) and mean normalized gross error (MNGE) (see Table 3.3) (US EPA, 2007).

This modeling system is used to support regulatory applications, so the model performance analysis reflects this end-use of the modeling results. It is well known that ozone data tends to follow a log-normal distribution and for the purposes of scientific evaluations the data is often log-transformed before evaluation (Hogrefe et al, 2003). Observations and predictions used in the

attainment test may not be transformed, so the data used for model performance evaluation will likewise not be transformed.

Table 3.3 Model Performance Metric Definitions.

Metric	Equation
Mean Normalized Bias Error (MNBE)	$= \frac{1}{N \times M} \sum_{i=1}^N \sum_{j=1}^M \left( \frac{P_i^j - O_i^j}{O_i^j} \right)$
Mean Normalized Gross Error (MNGE)	$= \frac{1}{N \times M} \sum_{i=1}^N \sum_{j=1}^M \left  \frac{P_i^j - O_i^j}{O_i^j} \right $

\* $P$ =model prediction;  $O$ =observation;  $N$ =number of days;  $M$ =number of monitors

These metrics have traditionally been calculated when the observation value exceeds a certain minimum value, often 60 ppb for 1-hour ozone evaluation (Hogrefe et al, 2003). The MNBE and MNGE will be estimated using 3 different minimum 8-hour ozone thresholds: 20, 40, and 60 ppb. The 60 ppb minimum threshold level excludes prediction-observation pairs that are not of direct regulatory importance since the 8-hour ozone attainment test only applies to days with high ambient concentrations (US EPA, 2007). The 20 and 40 ppb minimum thresholds are included in the evaluation to get a better idea about how well the model is performing at predicting diurnal formation and removal processes and for days between high ozone episodes.

The metrics are estimated for all stations in the 12 km modeling domain for each day of the summer episode. The episode average metrics are estimated from the daily metrics.

### 3.3 Deposition

Wet deposition is measured at several monitoring networks and is also output by the photochemical model. The National Trends Network (NTN) and the Atmospheric Integrated Research Monitoring Network (AIRMon) make up the National Atmospheric Deposition Program (NADP). NTN sites collect weekly measurements of wet deposition fluxes of sulfate and nitrate anions and the ammonium cation. NADP network stations measure wet deposition as mass per volume (mg/L) and the model outputs mass per area (g/ha or mole/ha). CAMx4 wet deposition output is matched to NTN/NADP measurement data in units of kg/km<sup>2</sup> according to the details outlined below.

The calculations used to convert CAMx wet deposition output to compare to NTN/NADP network data:

$$\text{SPECIE\_WD (g/ha)} * (1 \text{ ha} / 2.5 \text{ acres}) * (1 \text{ acre} / 0.0040469 \text{ km}^2) * (1 \text{ kg} / 1000 \text{ g})$$

The calculations used to convert NTN/NADP data to compare with CAMx output data:

$$\text{SPECIES (mg/L)} * (1 \text{ L} / 1,000,000 \text{ mm}^3) * \text{precipitation in mm} * (1 \text{ mm}^2 / 0.000000000001 \text{ km}^2) * (1 \text{ g} / 1000 \text{ mg}) * (1 \text{ kg} / 1000 \text{ g})$$

The table below outlines the matching of observed species to CAMx output species.

Table 3.4 Observed and Modeled Wet Deposition		
	NADP/NTN	CAMx4
Sulfate	SO4	PSO4_WD + SULF_WD
Nitrate	NO3	PNO3_WD + HNO3_WD
Ammonium	NH4	PNH4_WD + NH3_WD
Crustal	Ca + Cl + Mg +K + Na	FCRS_WD + FPRM_WD

#### 4. Attainment Tests

##### Visibility

Visibility may be estimated by two similar methods that relate light extinction to ambient PM<sub>2.5</sub> concentrations (FLAG, 2000; US EPA, 2007). Visibility will be estimated using the new equation recommended by the IMPROVE steering committee (IMPROVE, 2006). The new and old equations produce very similar estimates of light extinction in the upper Midwest. The new equation will be emphasized for the SIP modeling demonstration due to its more up to date science.

The equation shown below relates PM<sub>2.5</sub> specie concentrations to light extinction. Additional factors of f(RH) are included that change the light scattering of sulfate and nitrate based on climatologically averaged relative humidity.

$$\beta_{\text{ext}} = 2.2 * f_{\text{SRH}} * [\text{small sulfate}] + 2.4 * f_{\text{S}}(\text{RH}) * [\text{small nitrate}] + 4.8 * f_{\text{LRH}} * [\text{large sulfate}] + 5.1 * f_{\text{L}}(\text{RH}) * [\text{large nitrate}] + 2.8 * [\text{small OCM}] + 6.1 * [\text{large OCM}] + 10 * \text{EC} + 1 * \text{SOIL} + 0.6 * \text{CM} + 1.7 * f_{\text{SS}}(\text{RH}) * \text{SS} + \beta_{\text{rayleigh}}$$

Bext	Estimated extinction coefficient (Mm-1)
Sulfate	Sulfate associated with ammonium (SO <sub>4</sub> *1.375)
Nitrate	Nitrate associated with ammonium (NO <sub>3</sub> *1.29)
OCM	Organic carbon Mass
EC	Elemental carbon
SOIL	Inorganic primary PM <sub>2.5</sub> (soil, crustal, other)
CM	Coarse fraction particulate matter
SS	Sea salt
β <sub>rayleigh</sub>	Light scattering due to Rayleigh scattering (site specific)
fRH	Relative humidity adjustment factor

The apportionment of sulfate, nitrate, and organic carbon mass into small and large size fractions is shown below using 'X' as a placeholder for these species.

$$\text{Large X} = ([\text{Total X}] / [20 \text{ ug/m}^3]) * [\text{Total X}], \text{ where } [\text{Total X}] < 20 \text{ ug/m}^3$$

$$\text{Large X} = [\text{Total X}], \text{ where } [\text{Total X}] \geq 20 \text{ ug/m}^3$$

$$\text{Small X} = [\text{Total X}] - [\text{Large X}]$$

The fRH values are long-term averages that are site and month specific (US EPA, 2003a; US EPA 2003b; FLAG, 2000). The light scattering due to Rayleigh is site specific (IMPROVE, 2006). The NO<sub>2</sub> component to the light extinction equation is not included since it is not measured at Class I areas in the upper Midwest. The visibility equation is expressed as an extinction coefficient (β<sub>ext</sub>) and is converted to deciviews using the equation below.

$$\text{Deciview} = 10 \ln(\beta_{\text{ext}} / \beta_{\text{rayleigh}})$$

The reasonable progress test to determine the relationship between current and future year visibility is expressed in deciview units. The changes in deciview between the current and future year strategy is the reasonable progress test and is shown below.

$$\begin{aligned}\text{Change in Deciview} &= 10\ln[(\beta_{\text{ext}})_{\text{future}} / (\beta_{\text{ext}})_{\text{base}}] \\ &\quad - \text{ or } - \\ \text{Change in Deciview} &= \text{Deciview}_{\text{base}} - \text{Deciview}_{\text{future}}\end{aligned}$$

Visibility will be estimated for key Class I area in the Midwest for the base year and various future year scenarios. The changes in visibility between the base line and future year will be assessed using procedures in U.S. EPA's modeling guidance document (US EPA, 2007).

1. The visibility in deciviews will be ranked from high to low at each Class I area for the calendar years 2000-2004 using the monthly and site specific fRH values and the more recent IMPROVE light extinction equation.
2. The mean deciviews for the 20% days with the best and the 20% days with the worst visibility is estimated for each Class I area for each year of the 2000-04 baseline period.
3. The mean observed extinction coefficient for the days during the modeling period (2005) with the 20% best and 20% worst visibility will be calculated.
4. The mean predicted extinction coefficient for the corresponding 20% best and 20% worst days of the modeling period of the base case and future year strategy will be calculated using monthly site specific fRH values.
5. The relative reduction factor for the 20% best and 20% worst group of days for each site for each of the particulate matter species in the light extinction equation are estimated.
6. The relative reduction factors are multiplied by daily measured PM data during the 2000-04 baseline to estimate future daily values of these species.
7. These future daily PM estimates are used to estimate light extinction for each of the previously identified 20% best and 20% worst days of monitored data. Light extinction is converted to deciviews and the mean value for the best and worst days for each year of the baseline period is estimated.
8. The 5 mean deciview values for the worst and best days (one from each of the 5 years) are averaged together for a mean value for the best and worst days.
9. The future year mean deciview values in step 8 are compared to the observed values from step 2. The differences are compared to established goals for reasonable progress to determine if reasonable progress is demonstrated.

### **Annual PM2.5 Standard**

Progress in meeting the annual PM2.5 standard will be assessed by application of the procedures outlined by the U.S. EPA modeling guidance document (US EPA, 2007). The major steps of this attainment test are outlined below:

1. Chemically speciated IMPROVE and STN PM2.5 data from 2001-2005 is spatially interpolated to match the grid domain and resolution used for the photochemical modeling. Spatial fields are developed for each PM2.5 chemical species for each season using the SAS statistical software package PROC KRIG function (EPA, 2004b).
2. The estimated fractional composition of each species by quarter is multiplied by the 5 year weighted average 2001-2006 FRM quarterly mean concentrations at each FRM monitor, resulting in estimated quarterly mean ambient concentrations of PM2.5

components sulfate, nitrate, ammonium, elemental carbon, organic carbon, particle bound water, and crustal material.

3. Estimate the modeled quarterly mean concentration for each chemical component of PM<sub>2.5</sub> in the base year and future scenarios.
4. Calculate quarterly relative reduction factors for sulfate, nitrate, elemental carbon, organic carbon, and crustal material. The RRF is the ratio of the future year to the base year.
5. Quarterly specific RRFs are multiplied by the quarterly average species concentration from step 2 to estimate future case quarterly average concentrations for each of the PM<sub>2.5</sub> species.
6. Calculate the quarterly average future scenario concentrations for ammonium and particle bound water using estimated ambient concentrations of sulfate, nitrate, and degree of sulfate neutralization. Particle bound water is estimated with an empirical equation.
7. Sum the quarterly future species concentrations to estimate the future quarterly average PM<sub>2.5</sub> concentration.
8. The annual average future scenario concentration is the average of the 4 future year quarterly average PM<sub>2.5</sub> concentrations.
9. Compare value to annual NAAQS standard of 15  $\mu\text{g}/\text{m}^3$ . If value is  $\leq 15 \mu\text{g}/\text{m}^3$  then the test is passed.

Organic carbon mass is estimated using a mass balance approach (EPA, 2006). The organic carbon spatial fields are only used to supply a minimum value for OCM when OCM estimated by mass balance is less than  $\text{OC} \times 1.4 \times 0.7$ . A spatial field of the degree of sulfate neutralization is developed to estimate PM<sub>2.5</sub> ammonium. Particle bound water is estimated using an empirical equation with spatially interpolated PM<sub>2.5</sub> sulfate ion, FRM equivalent PM<sub>2.5</sub> nitrate ion, and FRM equivalent PM<sub>2.5</sub> ammonium ion (EPA, 2006).

## Ozone

Progress in meeting the 8-hour ozone standard will be assessed in part using the modeled attainment test outlined by the U.S. EPA's "Guidance on the Use of Models and Other Analyses in Attainment Demonstrations for the 8-hour Ozone, PM<sub>2.5</sub>, and Regional Haze" (US EPA, 2007). The attainment test is only applicable to monitors with design values  $\geq 75$  ppb. The major steps of the attainment test are described below:

1. Calculate the 8-hour ozone design value at each monitor location; the design value used in the attainment test is the average of 3 consecutive 3 year averaged design values: 2003-2005, 2004-2006, and 2005-2007.
2. Apply the photochemical model to a current year and future year to estimate a monitor specific relative reduction factor.
3. Calculate the future year design value by multiplying the monitor-specific observed design value by the monitor-specific relative reduction factor.
4. If the future year design value is  $\leq 84$  ppb then the test is passed at that monitor location.

The highest 8 hour daily maximum predicted in the 3x3 (or 7x7 for 4 km modeling) group of cells surrounding and including the cell in which the monitor is located will be used in the attainment test. The attainment test will be applied to all days during the summer of 2005 that meet the inclusion criteria for the relative reduction factor calculation (US EPA, 2007). An episode day must have a peak 8-hr ozone model prediction  $> 85$  ppb at a specific monitor or near the monitor (definition of near mentioned above) to be included in the attainment test. If there are less than 10 days of estimated peak 8-hr ozone at a monitor then the threshold for inclusion to the relative

reduction factor is decreased until the number of days equals 10 or the threshold goes below 70 ppb (US EPA, 2007). If there are less than 4 days in the relative reduction factor calculation then the attainment test is not applied for that monitor.

### **Unmonitored Area Analysis**

An un-monitored area analysis is an additional review to identify areas that might exceed the 8-hr ozone or annual PM<sub>2.5</sub> NAAQS if monitors were present (US EPA, 2007). This analysis uses interpolated spatial fields of ambient concentrations and photochemical model estimated concentrations to develop “model adjusted spatial fields of observations” (US EPA, 2007). The model adjusted spatial fields are developed for the base year. Future year concentrations are estimated by applying RRFs to the base year model adjusted spatial field.

#### **8-hr Ozone NAAQS**

1. Ambient 8-hr ozone design values are interpolated to create the ambient spatial field. The design values are the 2003-2005 8-hr ozone design values.
2. The ambient spatial field is adjusted using gridded ozone seasonal average base year model output gradients.
3. Gridded RRFs are applied to the adjusted spatial field developed in step 2.
4. If any grid cell exceeds 84 ppb then that grid cell is predicted to exceed the 8-hr ozone NAAQS in the future scenario.

#### **Annual PM<sub>2.5</sub> NAAQS**

1. Quarterly PM<sub>2.5</sub> chemical species are interpolated to create the ambient spatial fields.
2. The ambient spatial field is adjusted using gridded ozone seasonal average base year model output gradients.
3. Quarterly gridded RRFs for each PM<sub>2.5</sub> species are applied to the adjusted spatial field developed in step 2.
4. If any grid cell exceeds 15 ug/m<sup>3</sup> then that grid cell is predicted to exceed the annual PM<sub>2.5</sub> NAAQS in the future scenario.

US EPA intends to provide software that incorporates monitor observation data and CAMx output to generate the gridded future year 8-hr ozone and annual PM<sub>2.5</sub> estimates (US EPA, 2007). This software will be used to apply the un-monitored area analysis.

### **24-hr PM<sub>2.5</sub> Standard**

Progress in meeting the new 24-hr PM<sub>2.5</sub> standard will be assessed by application of the procedures outlined by the U.S. EPA document “Guidance on the Use of Models and Other Analyses for Demonstrating Attainment of Air Quality Goals for Ozone, PM<sub>2.5</sub>, and Regional Haze” (US EPA, 2007). The major steps of this attainment test are outlined below:

1. Chemically speciated IMPROVE and STN PM<sub>2.5</sub> data from 2001-2005 is spatially interpolated to match the grid domain and resolution used for the photochemical modeling. Spatial fields are developed for each PM<sub>2.5</sub> chemical species for each season using the SAS statistical software package PROC KRIG function (EPA, 2004b). Rather than interpolating seasonal averages, the top 15% of reconstructed PM<sub>2.5</sub> mass samples are used as the basis of the chemically speciated data used for seasonal spatial fields.



2. Estimate the observed 98<sup>th</sup> percentile value for each year of the 5 year baseline period. Additionally, the next highest concentration in each quarter is identified. This results in data for each year and site which contains one quarter that equals the 98<sup>th</sup> percentile and 3 quarters which are less than or equal to the 98<sup>th</sup> percentile.
3. The quarterly maximum daily concentration is multiplied by the fractional composition of PM2.5 species based on the spatial fields.
4. PM2.5 component specific relative reduction factors are estimated at each monitor for each quarter.
5. The component specific RRFs are multiplied by the observed values to estimate future year concentrations.
6. The quarterly components are summed to estimate the quarterly future year 98<sup>th</sup> percentile value.
7. The 3 consecutive future year 98<sup>th</sup> percentiles are averaged together to estimate 3 different future year design values. The 3 future year design values are averaged to estimate a single 5-year weighted average 24-hour design value.
8. If this 5 year weighted average 24-hour design value is less than 35 ug/m3 then the test is passed.

The relative reduction factor is only estimated for days with 24-hour average modeled PM2.5 greater than 35 ug/m3. If less than 10 days in a quarter meet this criteria, then the threshold is lowered until the number of days equals 10 or the threshold goes below 20 ug/m3. If there are less than 5 days in the RRF calculation then that quarter is not used for the estimation of the future year design value. If no quarter has more than 5 days included in the RRF calculation then the attainment test is not applied for that monitor.

## **5.0 Other Issues**

### **Technology Transfer and Modeling Capacity Building**

States that are part of the Midwest Regional Planning Organization and cooperating organizations have to opportunity to acquire a turn-key modeling system. This will include all the model inputs, scripts, and support documents to perform model simulations. States participate in an extensive sensitivity projects and preliminary strategy rounds which are designed in part to allow States to develop modeling expertise in-house.

The model input data will be available on an FTP site. The drawback is that transfer times will be long since the files are rather large, but the benefit is that as improvements and updates to input files, model code, and processing utilities become available they will immediately be available to everyone. This approach greatly reduces the resource burden involved with data distribution of media (i.e. hard drives or DLT tapes) via the mail system.

Where very large datasets need to be transferred USB/firewire drives will be sent via the mail system. A general figure where USB drives will be used for transfer instead of FTP would be 50+ gigabytes of data.

States and cooperating organizations will also participate in regular conference calls and face to face meetings to discuss problems, progress, and outline cooperative work objectives.

Ultimately, States that are inclined will be able to use the model inputs developed by the Midwest Regional Planning Organization as the basis for local emphasis modeling projects.

### **Data Management and Storage**

The file storage requirements for annual modeling are large and data backup is an important consideration. Important files including raw emissions and meteorological files will be stored redundantly on multiple hard drives. Additionally, all the model inputs will have a redundant copy at each member State as they will be using them for model simulations as part of the technology transfer and capacity building.

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