



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

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Ms. Mary A. Gade
Regional Administrator
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3950

March 26, 2007

Re: Request for Redesignation and
Maintenance Plan for 8-Hour Ozone-
Central Indiana Area
Final Submittal

Dear Ms. Gade:

The Indiana Department of Environmental Management (IDEM) prepared a draft Redesignation Petition and Maintenance Plan for the Central Indiana Area and submitted it to the United States Environmental Protection Agency (US EPA) with a request for parallel processing on February 1, 2007. IDEM conducted a public hearing concerning the Redesignation Petition and Maintenance Plan on March 6, 2007 and the public comment period concluded on March 9, 2007.

Attached hereto is the final Redesignation Petition and Maintenance Plan for the Central Indiana Area. This final version documents the public review process. IDEM did not receive any adverse comments during the public review process, and the document has not been altered substantively since it was submitted to the US EPA for parallel processing on February 1, 2007.

The attached document consists of the following:

Redesignation Petition and Maintenance Plan

- A formal request that the Central Indiana area (Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan and Shelby Counties) be redesignated to attainment and classified as "maintenance". It contains and meets the requirements set forth in Section 107 of the Clean Air Act and in the Redesignation guidance issued September 4, 1992.

M. Gade

Page 2.

- A maintenance horizon year of 2020 is established and 2010 and 2015 are analyzed as interim years.
- The appendices of the document contain historic trend data, projected emission inventory data and thorough documentation of the mobile emissions analysis.
- A transcript of the public hearing. No comments were received during the public notice period. Two people did attend the public hearing (representing the City of Indianapolis' Office of Environmental Services). One of these individuals did provide oral statements supporting the Central Indiana Area redesignation petition and maintenance plan. As such, no IDEM response is necessary.

Motor Vehicle Emissions Budgets

- Contained in the Maintenance Plan are new Motor Vehicle Emissions Budgets for the years 2006 and 2020. The Indianapolis Department of Metropolitan Development (Greater Indianapolis Metropolitan Planning Organization) and the Madison County Council of Governments (Anderson Area Metropolitan Planning Organization) travel-demand models and MOBILE6.2 were used to estimate mobile source emissions for the area.
- A reasonable margin of safety was applied to the 2020 projected mobile source emissions.
- The Travel Demand Model was updated with the best available assumptions.

IDEM hereby requests that the US EPA proceed with final review and approval of this submittal. If you have any questions or need additional information, please contact Mr. Gale Ferris, Air Programs Branch at (317)234-3653.

Sincerely,


Thomas W. Easterly, Commissioner
Indiana Department of Environmental Management

TWE/kaw/sad
Attachments

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Ed Doty, US EPA (w/enclosure)
Jay Bortzer, US EPA (no enclosures)
John Mooney, US EPA (w/enclosures)
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Jerry Bridges, MCCOG
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Scott Deloney, IDEM
Kathryn Watson, IDEM
Gale Ferris, IDEM

REQUEST FOR REDESIGNATION AND
MAINTENANCE PLAN FOR
OZONE ATTAINMENT
IN THE 8-HOUR OZONE BASIC
NONATTAINMENT AREA

Central Indiana Area

Prepared By:
The Indiana Department of Environmental Management

March 2007

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TABLE OF CONTENTS

1.0 INTRODUCTION	1
1.1 Background.....	1
1.2 Geographical Description.....	2
1.3 Status of Air Quality.....	2
2.0 REQUIREMENTS FOR REDESIGNATION	2
2.1 General.....	2
2.2 Ozone Monitoring.....	2
2.3 Emission Inventory.....	3
2.4 Modeling Demonstration.....	3
2.5 Controls and Regulations.....	3
2.6 Corrective Actions for Potential Future Violations of the Standard.....	4
3.0 OZONE MONITORING	4
3.1 Ozone Monitoring Network.....	4
3.2 Ambient Ozone Monitoring Data.....	6
3.3 Quality Assurance.....	9
3.4 Continued Monitoring.....	9
4.0 EMISSION INVENTORY	10
4.1 Emission Trends.....	10
4.2 Base Year Inventory.....	13
4.3 Emission Projections.....	14
4.4 Demonstration of Maintenance.....	17
4.5 Permanent and Enforceable Emissions Reductions.....	17
4.6 Provisions for Future Updates.....	17
5.0 TRANSPORTATION CONFORMITY BUDGETS	18
5.1 On-Road Emissions Estimations.....	18
5.2 Overview.....	18
5.3 Analysis Years.....	19
5.4 Emission Estimations.....	19
5.5 Motor Vehicle Emission Budget-Regional.....	20

6.0 CONTROL MEASURES AND REGULATIONS	21
6.1 Reasonably Available Control Technology (RACT).....	21
6.2 Implementation of Past SIP revisions.....	22
6.3 Nitrogen Oxides (NO _x) Rule.....	22
6.4 Measures Beyond Clean Air Act SIP Requirements	23
6.5 Controls to Remain in Effect	24
6.6 New Source Review Provisions.....	24
6.7 Local Air Quality Mitigation	25
7.0 MODELING AND METEOROLOGY	26
7.1 Summary of Modeling Results for National Emission Control Strategies in Final Rulemakings	26
7.2 Summary of Modeling Results to Support Rulemakings	27
7.3 Summary of Existing Modeling Results.....	29
7.4 Temperature Analysis for Central Indiana.....	29
7.5 Summary of Meteorological Conditions.....	31
8.0 CORRECTIVE ACTIONS	32
8.1 Commitment to Revise Plan	32
8.2 Commitment for Contingency Measures.....	32
8.3 Contingency Measures.....	33
9.0 PUBLIC PARTICIPATION	34
10.0 CONCLUSIONS	34

FIGURES

Figure 3.1 Central Indiana Nonattainment Area.....	5
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TABLES

Table 3.1 Monitoring Data for the Central Indiana Area (Annual 4 th High and 2004-2006 Design Values).....	7
Table 4.1 Comparison of 2005 Estimated and 2020 Projected Emission Estimates in Tons Per Summer Day, Central Indiana Area.....	16
Table 5.1 Emission Estimates in Tons Per Summer Day for On-Road Mobile Sources Central Indiana Area.....	19
Table 5.2 Mobile Vehicle Emission Budgets in Tons Per Summer Day Central Indiana Area	20
Table 5.3 2006 Mobile Vehicle Emission Comparison in Tons Per Summer Day for Marion County, Indiana.....	21
Table 6.1 Trends in EGU Ozone Season NO _x Emissions Statewide in Indiana	23
Table 7.1 Modeling Results for Central Indiana from U.S. EPA HDE Rulemaking.. ..	27

Table 7.2 Modeling Results from U.S. EPA for the Clean Air Interstate Rule.....	28
Table 7.3 LADCO’s Round 4 Modeling Results for the Clean Air Interstate Rule	28
Table 7.4 Analysis of Maximum Temperatures for the Central Indiana Area (Percent Change from Maximum Temperature (°F) Normals (1971-2000))	30
Table 7.5 Comparison of Days with 90° F and 8-Hour Ozone Exceedance Days.....	30

GRAPHS

Graph 3.1 Design Values for the Central Indiana Nonattainment Area 2004 through 2006.....	8
Graph 3.2 Trends in Central Indiana’s 8-Hour Design Values 2002 through 2006	8
Graph 4.1 Central Indiana Area NO _x Point Source Emissions Trends 1999 through 2005	11
Graph 4.2 Central Indiana Area VOC Point Source Emissions Trends 1999 through 2005	11
Graph 4.3 Statewide NO _x Emissions from Electric Generating Units 1999 through 2005	12
Graph 4.4 NO _x Emissions Trends, 1999-2005, All Sources in the Central Indiana Area	13
Graph 4.5 VOC Emissions Trends, 1999-2005, All Sources in the Central Indiana Area	13
Graph 4.6 Comparison of 2005 Estimated and 2010, 2015 and 2020 Projected NO _x Emissions for the Central Indiana Area	15
Graph 4.7 Comparison of 2005 Estimated and 2010, 2015 and 2020 Projected VOC Emissions for the Central Indiana Area	16
Graph 5.1 Age Distribution for MOBILE6 Vehicle-Type for Central Indiana (including the Central Indiana Area Compared to National Default Values).....	18
Graph 5.2 VMT Fractions by MOBILE6 Vehicle-Types for the Central Indiana Area	19
Graph 7.1 Comparison of Days with 90° F and 8-Hour Ozone Exceedance Days.....	31

APPENDICES

A	Aerometric Information Retrieval System (AIRS) Data
B	Emissions Inventories
C	2010, 2015 and 2020 Projected Emissions Inventories
D	Public Participation Documentation
E.	Mobile Input/Output and Calculation Files, Central Indiana Area

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**REQUEST FOR REDESIGNATION AND
MAINTENANCE PLAN FOR OZONE ATTAINMENT
IN THE 8-HOUR OZONE BASIC
NONATTAINMENT AREA**

CENTRAL INDIANA AREA

1.0 INTRODUCTION

This document supports Indiana’s request that Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, and Shelby Counties (herein referred to as the “Central Indiana Area”), be redesignated from nonattainment to attainment of the 8-hour ozone standard. The Central Indiana Area has recorded three (3) years of complete, quality assured ambient air quality monitoring data for the years 2004 through 2006 demonstrating attainment with the 8-hour ozone standard.

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 8-hour ozone standard.
- (b) An approved State Implementation Plan (SIP) for the area under Section 110(k).
- (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 fully approved maintenance plan under Section 175A.
- (e) A determination that all Section 110 and Part D requirements have been met.

This document addresses each of these requirements, and provides additional information to support continued compliance with the 8-hour ozone standard.

1.1 Background

The Clean Air Act Amendments of 1990 (CAAA) required areas designated nonattainment for the National Ambient Air Quality Standard (NAAQS) for ozone to develop SIPs to expeditiously attain and maintain the standard. In 1997 the United States Environmental Protection Agency (U.S. EPA) revised the air quality standard for ozone replacing the 1979 1-hour standard with an 8-hour ozone standard set at 0.08 parts per million (ppm) (values below 0.085 ppm meet the standard, please see Section 3.2 for further clarification). The standard was challenged legally and upheld by the U.S. Supreme Court in February of 2001. The U.S. EPA designated areas under the 8-hour ozone standard on April 15, 2004 as attainment, nonattainment, or unclassifiable.

On April 15, 2004, U.S. EPA designated the Central Indiana Area Basic nonattainment and subject to the new 8-hour ozone requirements, including development of a plan to reduce volatile

organic compound (VOC) and oxides of nitrogen (NO_x) emissions and a demonstration that the area will meet the 8-hour ozone standard for ozone by June 15, 2009.

The Central Indiana Area as defined in Sections 1.1 and 1.2 has not previously been subject to nonattainment area rulemakings. However, Marion County has been subject to nonattainment area rulemakings under the previous one-hour ozone standard. Marion County was redesignated to attainment and classified as maintenance under the one-hour ozone standard in 1994 with a maintenance plan horizon of 2006.

1.2 Geographical Description

The Central Indiana Area includes Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan, and Shelby Counties and contains such cities as Anderson, Carmel, Greenfield, Greenwood, Indianapolis, Lebanon, Martinsville, and Shelbyville and such towns as Brownsburg, Cumberland, Fishers, Mooresville, Plainfield and Zionsville. This area is depicted in Figure 3.1.

1.3 Status of Air Quality

Ozone monitoring data for the most recent three (3) years, 2004 through 2006, demonstrates that air quality has met the NAAQS for ozone in the nonattainment area. This fact, accompanied by the permanent and enforceable reductions in emission levels discussed in Section 4.0, justifies a redesignation to attainment for the subject area based on Section 107(d)(3)(E) of the CAAA.

2.0 REQUIREMENTS FOR REDESIGNATION

2.1 General

Section 110 and Part D of the CAAA 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 Regulatory Development Section of U.S. EPA Region V. The specific requirements for redesignation are listed below.

2.2 Ozone Monitoring 107(d)(3)(E)(i)

- 1) A demonstration that the NAAQS for ozone, as published in 40 CFR 50.4, has been attained. Ozone monitoring data must show that violations of the ambient standard are no longer occurring.
- 2) Ambient monitoring data quality assured in accordance with 40 CFR 58.10, 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 the fourth highest values, based on data from all monitoring sites in the area or its affected downwind environs, are below 0.085 parts per million (ppm). This showing must rely on three (3) 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 maintenance of the attainment status.

2.3 Emission Inventory 107(d)(3)(E)(iii)

- 1) A comprehensive emission inventory of the precursors of ozone completed for the base year.
- 2) A projection of the emission inventory to a year at least 10 years following redesignation.
- 3) A demonstration that the projected level of emissions is sufficient to maintain the ozone standard.
- 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 ozone nonattainment areas, the Indiana Department of Environmental Management (IDEM) has evaluated the results of federal control-case modeling to demonstrate compliance with the standard will be maintained.

2.5 Controls and Regulations 107(d)(3)(E)(ii) & 107(d)(3)(E)(v)

- 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 ozone 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 (1) 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 Standard

- 1) A commitment to submit a revised plan eight (8) 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 VOC and NO_x sources potentially subject to future controls.

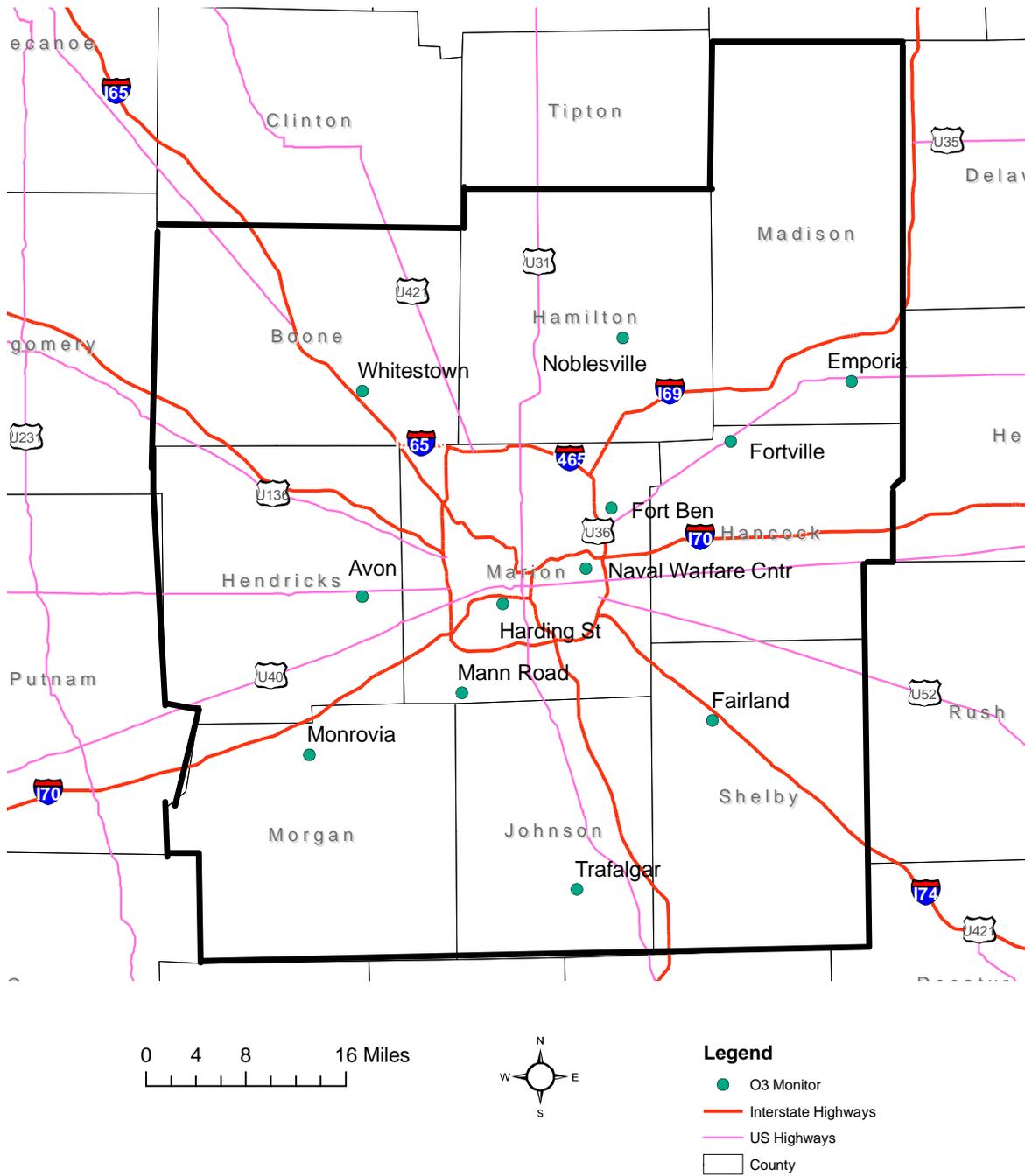
3.0 OZONE MONITORING

3.1 Ozone Monitoring Network

There are currently twelve monitors measuring ozone concentrations in this nonattainment area. These monitors are located as follows: Boone County (Whitestown, Indiana), Hamilton County (Noblesville, Indiana), Hancock (Fortville, Indiana), Hendricks (Avon, Indiana), Johnson (Trafalgar, Indiana), Madison (Emporia, Indiana), Marion (Fort Benjamin Harrison, Harding Street, Mann Road and National Air Warfare Center, Indianapolis, Indiana), Morgan (Monrovia, Indiana), and Shelby (Fairland, Indiana). The Emporia, Indiana and Naval Air Warfare Center monitors are currently operated by IDEM's Office of Air Quality (OAQ). The ten remaining monitors are currently operated by the City of Indianapolis' Office of Environmental Services. A listing of the monitors' four (4) highest readings from 2004 through 2006 are shown in Table 3.1 and were retrieved from the U.S. EPA's Air Quality System (AQS). The locations of the monitoring sites for this nonattainment area are shown on Figure 3.1.

Figure 3.1

Central Indiana Nonattainment Area



3.2 Ambient Ozone Monitoring Data

The following information is taken from U.S. EPA's "Guideline on Data Handling Conventions for the 8-Hour Ozone National Ambient Air Quality Standard (NAAQS)," EPA-454/R-98-017, December 1998.

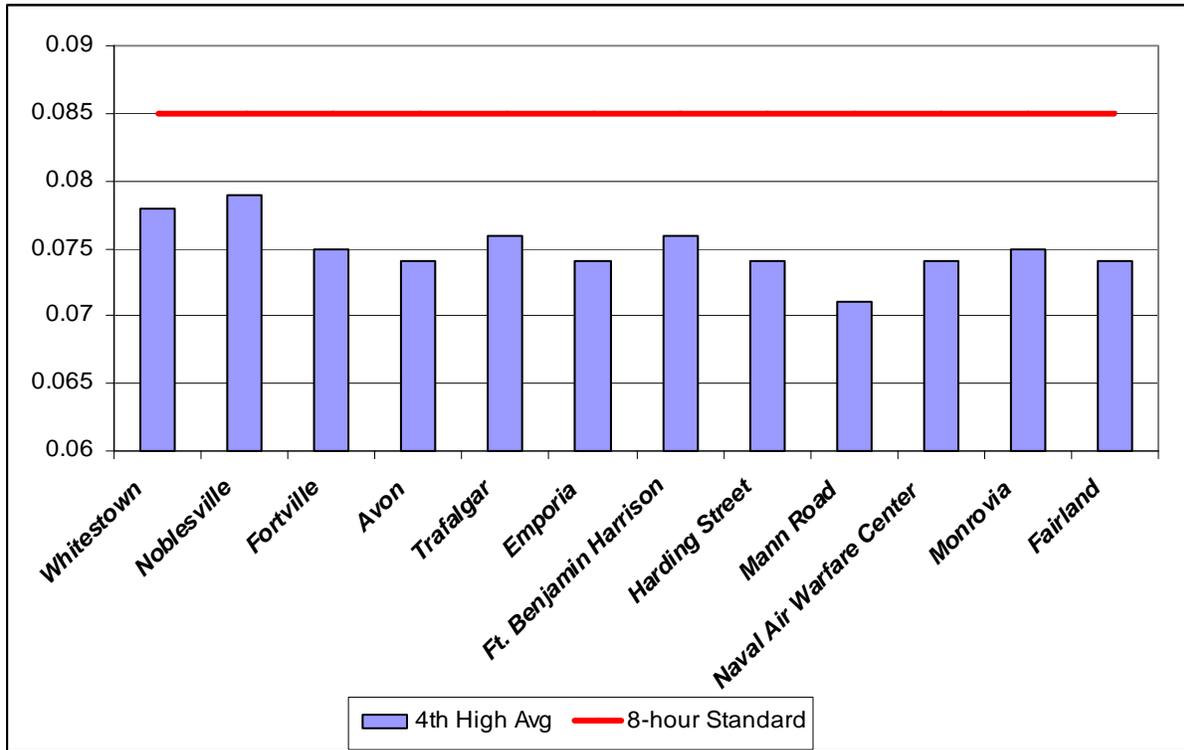
Three (3) complete years of ozone monitoring data are required to demonstrate attainment at a monitoring site. The 8-hour primary and secondary ozone ambient air quality standards are met at an ambient air quality monitoring site when the three (3) year average of the annual fourth-highest daily maximum 8-hour average ozone concentration is less than or equal to 0.08 ppm. When this occurs, the site is said to be in attainment. Three (3) significant digits must be carried in the computations. Because the third decimal digit, in ppm, is rounded, 0.084 ppm is the largest concentration that is less than, or equal to 0.08 ppm. Therefore, for the purposes of this request, the 8-hour standard is considered to be 0.085 ppm. Values below 0.085 ppm meet the standard, values equal to or greater than 0.085 ppm exceed the standard. These data handling procedures are applied on an individual basis at each monitor in the area. An area is in compliance with the 8-hour ozone NAAQS if, and only if, this monitoring site meets the NAAQS. An individual site's three (3) year average of the annual fourth highest daily maximum 8-hour average ozone concentration is also called the site's *design value*. 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 fourth highest values by site and the 2004 through 2006 design values for the twelve active ozone monitoring sites in the Central Indiana Area.

**Table 3.1 Monitoring Data for the Central Indiana Area
(Annual 4th High and 2004-2006 Design Values)**

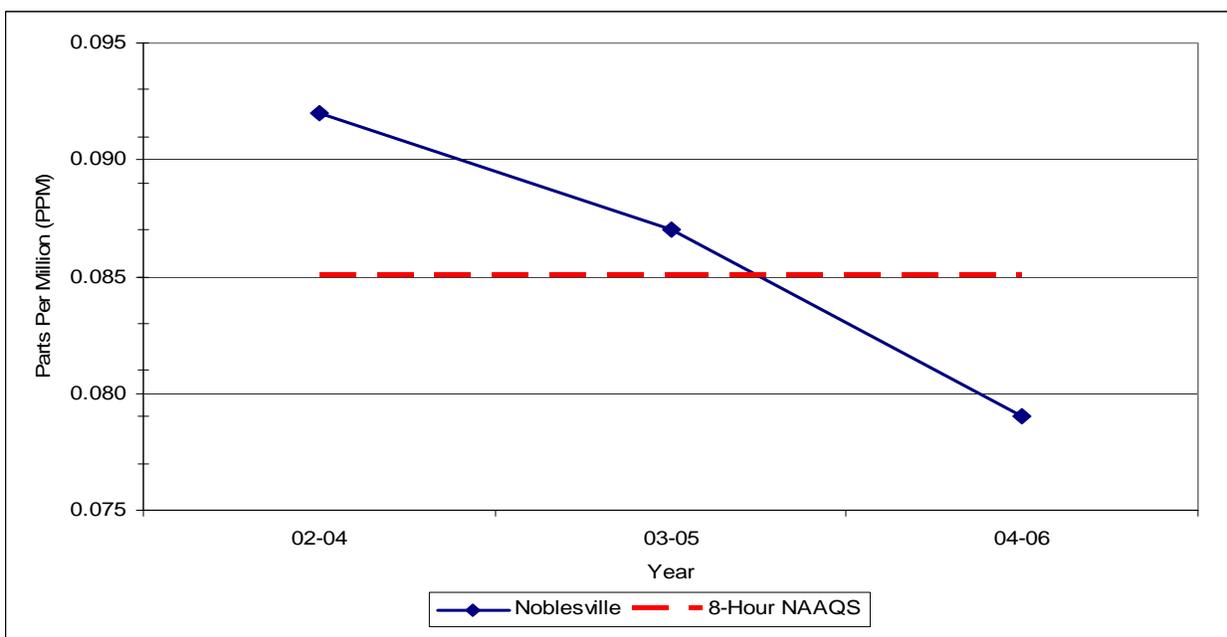
SITE ID	COUNTY	SITE NAME	YEAR	Annual 4 th High	2004-2006
				8-HR (ppm)	AVERAGE (ppm)
18-011-0001	Boone	Whitestown	2004	0.072	
18-011-0001	Boone	Whitestown	2005	0.082	
18-011-0001	Boone	Whitestown	2006	0.080	0.078
18-057-1001	Hamilton	Noblesville	2004	0.075	
18-057-1001	Hamilton	Noblesville	2005	0.087	
18-057-1001	Hamilton	Noblesville	2006	0.077	0.079
18-059-0003	Hancock	Fortville	2004	0.072	
18-059-0003	Hancock	Fortville	2005	0.080	
18-059-0003	Hancock	Fortville	2006	0.075	0.075
18-063-0004	Hendricks	Avon	2004	0.071	
18-063-0004	Hendricks	Avon	2005	0.078	
18-063-0004	Hendricks	Avon	2006	0.073	0.074
18-081-0002	Johnson	Trafalgar	2004	0.073	
18-081-0002	Johnson	Trafalgar	2005	0.077	
18-081-0002	Johnson	Trafalgar	2006	0.078	0.076
18-095-0010	Madison	Emporia	2004	0.072	
18-095-0010	Madison	Emporia	2005	0.078	
18-095-0010	Madison	Emporia	2006	0.073	0.074
18-097-0050	Marion	Ft. Benjamin Harrison	2004	0.073	
18-097-0050	Marion	Ft. Benjamin Harrison	2005	0.080	
18-097-0050	Marion	Ft. Benjamin Harrison	2006	0.076	0.076
18-097-0057	Marion	Harding Street	2004	0.066	
18-097-0057	Marion	Harding Street	2005	0.081	
18-097-0057	Marion	Harding Street	2006	0.076	0.074
18-097-0042	Marion	Mann Road	2004	0.065	
18-097-0042	Marion	Mann Road	2005	0.076	
18-097-0042	Marion	Mann Road	2006	0.074	0.071
18-097-0073	Marion	Naval Air Warfare Center	2004	0.071	
18-097-0073	Marion	Naval Air Warfare Center	2005	0.080	
18-097-0073	Marion	Naval Air Warfare Center	2006	0.072	0.074
18-109-0005	Morgan	Monrovia	2004	0.072	
18-109-0005	Morgan	Monrovia	2005	0.078	
18-109-0005	Morgan	Monrovia	2006	0.077	0.075
18-145-0001	Shelby	Fairland	2004	0.071	
18-145-0001	Shelby	Fairland	2005	0.080	
18-145-0001	Shelby	Fairland	2006	0.073	0.074

The graph below visually demonstrates the design values for this nonattainment area.

Graph 3.1 Design Values for the Central Indiana Area Nonattainment Area 2004 through 2006



Graph 3.2 Trends in Central Indiana's 8-Hour Design Values 2002 through 2006



The Noblesville ozone monitoring station recorded the highest three year 8-hour ozone design values from 2002 through 2006 and is considered the controlling monitor for the entire Central Indiana non-attainment area during this timeframe. As such, Graph 3.2 shows the trend in design values over the past five years (most recent three 8-hour design values) at the Noblesville ozone monitoring site as it is representative of the entire Central Indiana non-attainment area.

A comprehensive list of the twelve ozone monitoring site's design values over this period is in Appendix A. The area's design values have recently trended downward as emissions have declined due to such programs 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_x SIP Call") has significantly reduced emissions from large electric generating units (EGUs), industrial boilers, and cement kilns. Indiana's NO_x Rule was adopted on June 6, 2001 (326 IAC 10-3 and 10-4). 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 2006 is not the result of unusually favorable meteorological conditions. It is expected that this downward trend will continue as the above programs continue and the U.S. EPA Clean Air Interstate 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 the Indiana Quality Assurance Manual. IDEM has recorded the data in the AQS database and, thus, the data are available to the public.

3.4 Continued Monitoring

Indiana commits to continue monitoring ozone levels at the 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 monitoring network, should changes become necessary in the future. IDEM will continue to quality assure the monitoring data to meet the requirements of 40 CFR 58. Connection to a central station and updates to the IDEM website¹ will provide real time availability of the data and knowledge of any exceedances. IDEM will enter all data into AQS on a timely basis in accordance with federal guidelines.

¹ www.in.gov/idem/

4.0 EMISSION INVENTORY

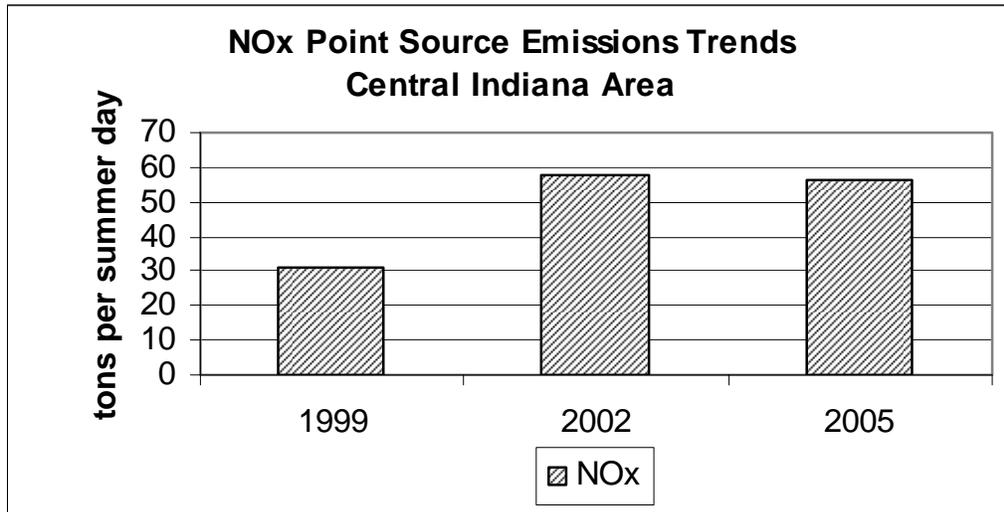
U.S. EPA's Redesignation Guidance requires the submittal of a comprehensive inventory of ozone precursor emissions (VOC and NO_x) representative of the year when the area achieves attainment of the ozone air quality standard. Indiana must also demonstrate that the improvement in air quality between the year that violations occurred and the year that attainment was achieved is based on permanent and enforceable emission reductions. Other emissions inventory related requirements: include a projection of the emission inventory to a year at least ten (10) years following redesignation; a demonstration that the projected level of emissions is sufficient to maintain the ozone standard; and a commitment to provide future updates of the inventory to enable tracking of emission levels during the ten (10) year maintenance period. The following subsections address each of these requirements. Photochemical modeling to support the NO_x SIP Call and IDEM's reclassification petition demonstrates that the Central Indiana Area is affected by overwhelming transport. Therefore, regional emission reductions affect ozone levels in the Central Indiana Area far more so than emission reductions within the area itself. Because of the significance of regional emissions reductions, Section 4.0 summarizes both regional and local emissions information.

4.1 Emission Trends

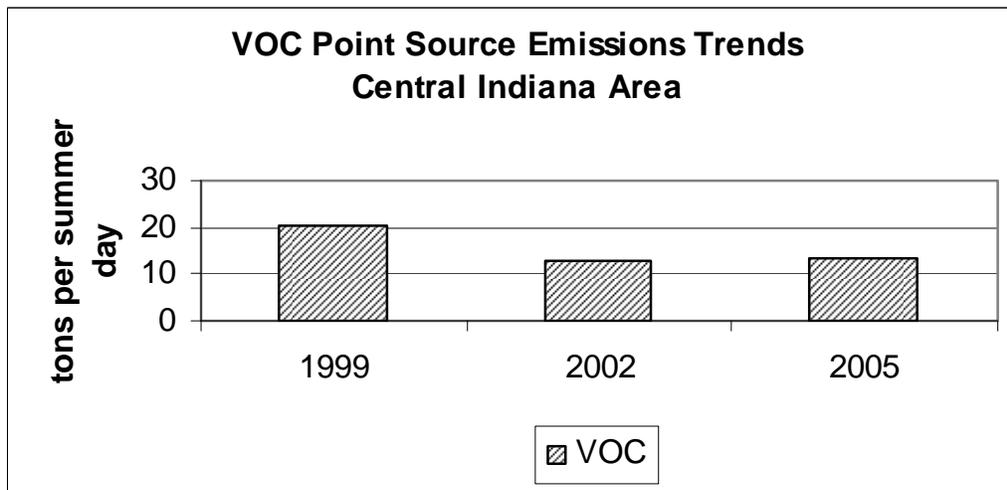
Point Sources

Graphs 4.1 and 4.2 show the trend in point source emissions of NO_x and VOC respectively that generally correspond to the years of monitored values referenced in this petition. The point source data are taken from Indiana's annual emissions reporting program. The Central Indiana area does not have a substantial number of NO_x point sources and even though point source emissions have increased modestly over this time period (see Graph 4.1), total anthropogenic NO_x emissions have decreased (see Graph 4.4). Regional NO_x emission reductions affect ozone levels in the Central Indiana Area far more so than NO_x emission reductions within the area itself. As Graph 4.3 illustrates, statewide NO_x emissions from electric generating units have decreased substantially during this time period.

Graph 4.1 Central Indiana Area NO_x Point Source Emissions Trends 1999 through 2005



Graph 4.2 Central Indiana Area VOC Point Source Emissions Trends 1999 through 2005



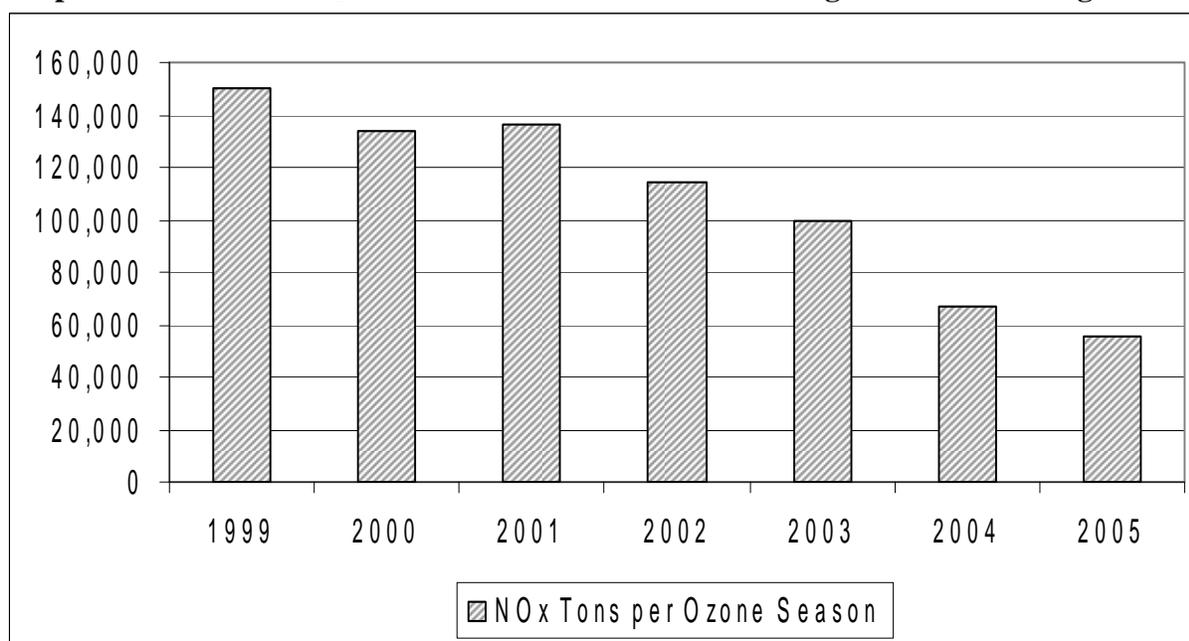
EGU Sources

Graph 4.3 depicts the trends in statewide NO_x emissions from EGUs. While ozone and its precursors are transported into this region from outside the area, this information does provide some indication of the impact that Indiana EGU sources may have on the nonattainment area. The emissions are decreasing substantially in response to national programs affecting all EGUs such as the Acid Rain program and the NO_x SIP Call. Other sectors of the inventory also impact ozone formation, but large regional sources such as EGUs have a substantial impact on the formation of ozone.

These data were taken from U.S. EPA's Clean Air Markets database². Data are available sooner for these units than other point sources in the inventory because of the NO_x SIP Call budget and trading requirements. Information from 2003 is significant because some EGUs started operation of their NO_x SIP Call controls in order to generate Early Reduction Credits for their future year NO_x budgets. The first season of the SIP Call budget period began May 31, 2004.

As part of the NO_x 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_x 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_x emissions have dramatically decreased over the years represented on these graphs. These emissions, capped by the state rule, should remain at least this low through the maintenance period covered by this request.

Graph 4.3 Statewide NO_x Emissions from Electric Generating Units 1999 through 2005

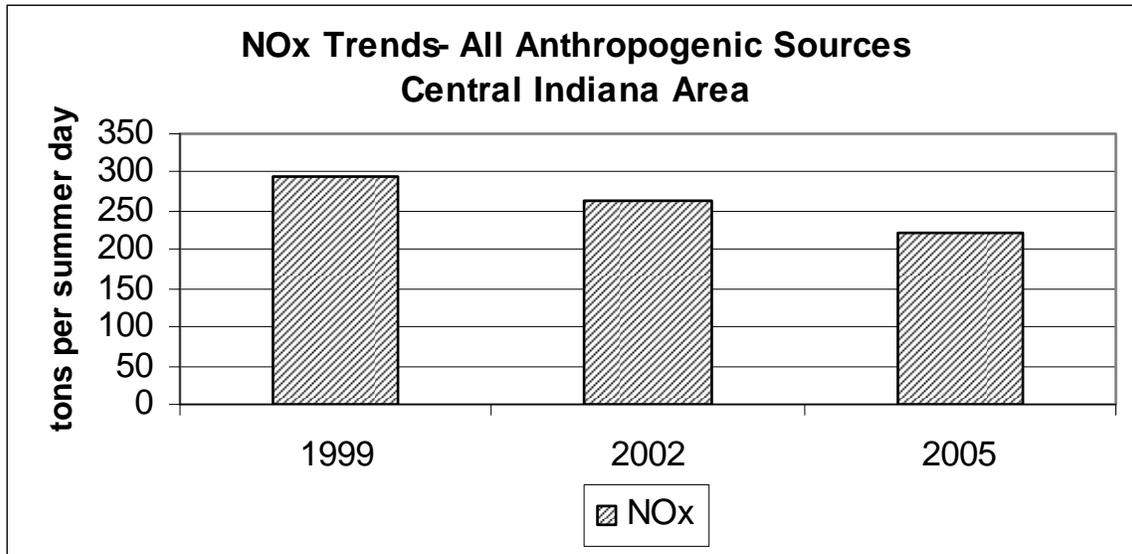


All Anthropogenic Sources

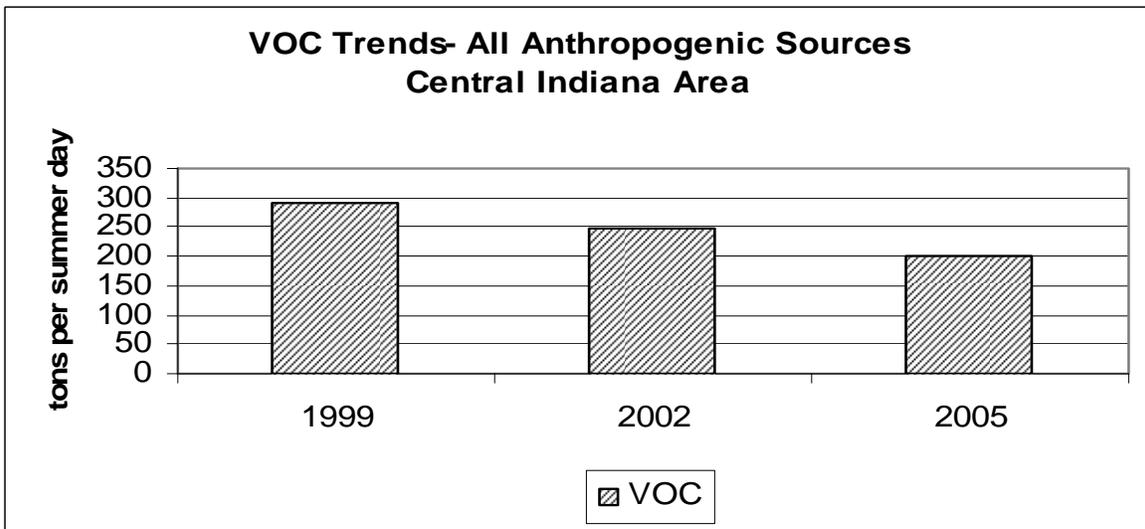
Periodic inventories, which include emissions from all sectors (mobile, area, non-road, and point sources) were prepared for 1999, 2002 and 2005. Graphs 4.4 and 4.5 show the trends for the total emissions for all anthropogenic source categories in these years, which also roughly follow the years of monitored trends discussed in Section 3. Graphs and data tables of emissions from each source category are available in Appendix B.

²<http://www.epa.gov/airmarkets>

Graph 4.4 NO_x Emissions Trends, 1999 through 2005, All Sources in the Central Indiana Area



Graph 4.5 VOC Emissions Trends, 1999 through 2005, All Sources in the Central Indiana Area



4.2 Base Year Inventory

IDEM prepared a comprehensive inventory for the Central Indiana Area, including area, mobile, and point sources for precursors of ozone (volatile organic compounds and nitrogen oxides) for base year 2005 (the middle year of the area's attainment design value).

- Area sources were grown from the Indiana 2002 periodic inventory submitted to U.S. EPA.
- Mobile source emissions were calculated from MOBILE6.2 produced emission factors and data extracted from the region's travel-demand model.

- Point source information was compiled from IDEM's annual emissions statement database..
- Biogenic emissions are not included in these summaries.
- Nonroad emissions were grown 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, the Lake Michigan Air Directors' Consortium (LADCO) (Midwest Regional Planning Organization), contracted with two (2) companies to review the base data and make recommendations. One of the contractors also estimated emissions for two (2) nonroad categories not included in U.S. EPA's nonroad model. Emissions were estimated for commercial marine vessels and railroads. 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.

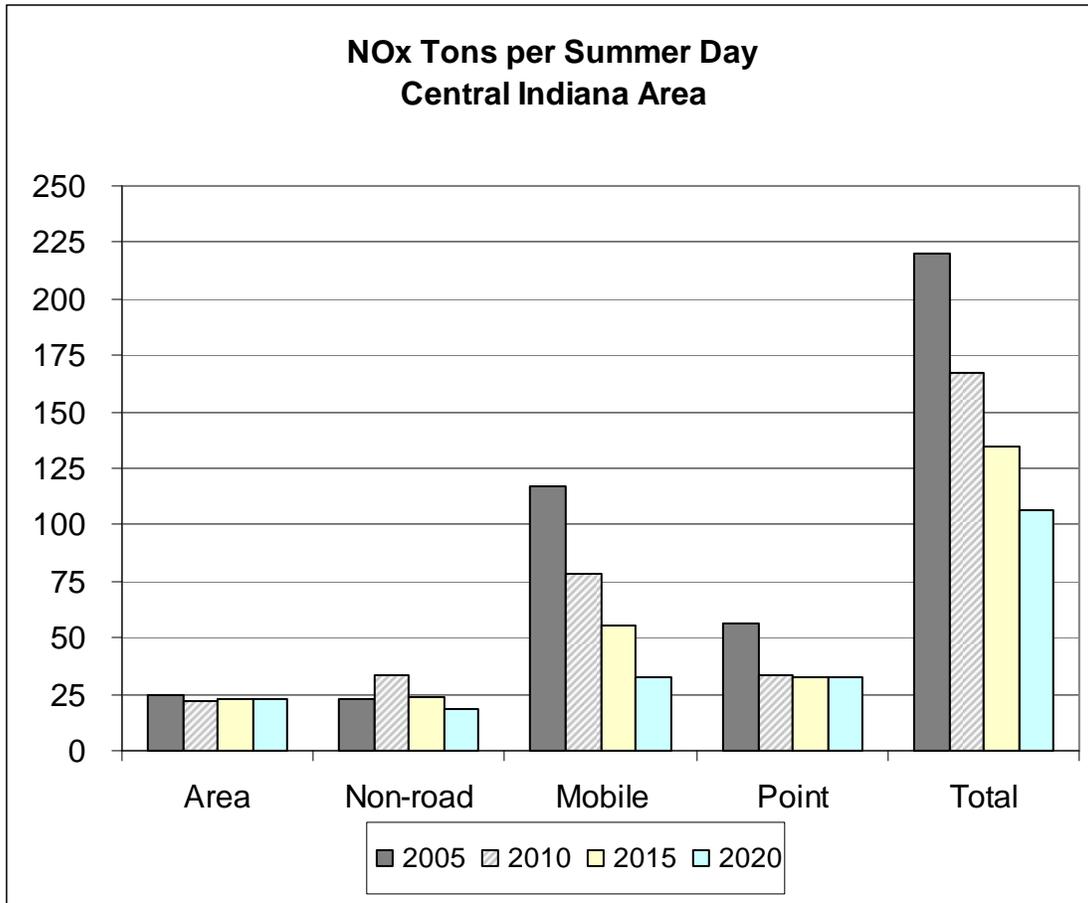
Appendix B contains data tables and graphs of all these emissions.

4.3 Emission Projections

In consultation with the U.S. EPA and other stakeholders, IDEM selected the year 2020 as the maintenance year for this redesignation request. This document contains projected emissions inventories for 2010, 2015 and 2020 for the Central Indiana Area. These emission projections were prepared by IDEM, with assistance from LADCO.

The detailed inventory information for the Central Indiana Area for 2010, 2015 and 2020 is in Appendix B. Emission trends are an important gauge for continued compliance with the ozone standard. Therefore, IDEM performed an initial comparison of the inventories for the base year (2005), interim years (2010 and 2015), and maintenance year (2020) for the Central Indiana Area. Graphs 4.6 and 4.7 visually compare the 2005 (base year) estimated emissions with the 2010, 2015 and 2020 projected emissions for the Central Indiana Area. Mobile source emission inventories are described in Section 5.0. In addition to LADCO's estimates, point source emissions were projected based upon the statewide EGU NO_x budgets from the Indiana NO_x rule.

Graph 4.6 Comparison of 2005 Estimated and 2010, 2015 and 2020 Projected NO_x Emissions for the Central Indiana Area



Graph 4.7 Comparison of 2005 Estimated and 2010, 2015 and 2020 Projected VOC Emissions for the Central Indiana Area

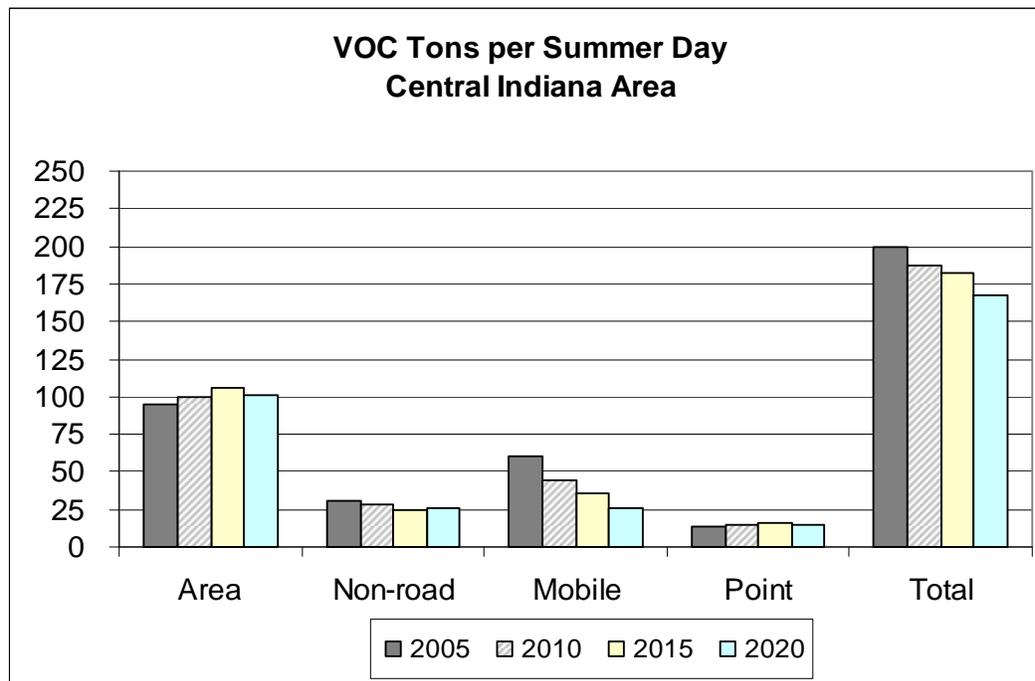


TABLE 4.1 Comparison of 2005 Estimated and 2020 Projected Emission Estimates in Tons Per Summer Day, Central Indiana Area

	2005	2020	Change	% Change
NO_x	220.18	106.31	-113.87	-51.71
VOC	199.25	167.42	-31.83	-15.98

NO_x emissions within the Central Indiana Area are projected to decline by 51.71% between 2005 and 2020. Emission reduction benefits from U.S. EPA rules covering the NO_x SIP Call, Tier 2 Motor Vehicle Emissions Standards and Gasoline Sulfur Control Requirements³ Highway Heavy-Duty Engine Rule⁴ and Non-Road Diesel Engine Rule⁵ are factored into the changes. Further, due to implementation of the NO_x SIP Call across the eastern United States, NO_x and ozone levels entering this area will also be decreased. The Clean Air Interstate Rule (CAIR), issued in March 2005, adopted by the Indiana Air Pollution Control Board on November 1, 2006, and to be implemented by 2010, will reduce regional EGU NO_x emissions state-wide by approximately another 17% in 2015. 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 Central Indiana Area or other upwind counties. Therefore, potential reductions are not included in Graph 4.6 or Table 4.1. VOC emissions within the Central Indiana Area are projected to decline by 15.98% between 2005 and 2020.

³ <http://www.epa.gov/fedrgstr/EPA-AIR/2000/February/Day-10/a19a.htm>

⁴ <http://www.epa.gov/fedrgstr/EPA-AIR/1997/October/Day-21/a27494.htm>

⁵ <http://www.epa.gov/fedrgstr/EPA-AIR/1998/October/Day-23/a24836.htm>

4.4 Demonstration of Maintenance

Ambient air quality data from all the monitoring sites indicate that air quality in the Central Indiana Area met the NAAQS for ozone in 2006. U.S. EPA's Redesignation Guidance (Page 9) 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 emissions rates will not cause a violation of the NAAQS." Emissions projections outlined in Section 4.0 of this document clearly illustrate that NO_x and VOC emissions will continue to decline between 2005 (base year) and 2020 (maintenance plan horizon). Section 7.0 further discusses the implications of these emissions trends and provides an analysis to support these conclusions. Therefore, air quality should meet the NAAQS ozone standard through the projected years of 2010, 2015 and 2020.

In Indiana, major point sources in all counties are required to submit air emissions information once every three (3) years or annually if the VOC potential to emit is greater than 250 tons or the NO_x potential to emit is greater than 2500 tons, in accordance with the Emission Statement Rule, 326 IAC 2-6. IDEM prepares a new periodic inventory for all ozone precursor emission sectors every three (3) years. These ozone precursor inventories will be prepared for 2007, 2010, and 2013 as necessary to comply with the inventory reporting requirements established in the CAAA. Emissions information will be compared to the 2005 base year and the 2020 projected maintenance year inventories to assess emission trends, as necessary, to assure continued compliance with the ozone standard.

4.5 Permanent and Enforceable Emissions Reductions

Permanent and enforceable reductions of volatile organic compounds and oxides of nitrogen have contributed to the attainment of the 8-hour ozone standard. Some of these reductions were due to the application of RACT rules and some were due to the application of tighter federal standards on new vehicles. Also, Title IV (Acid Rain) of the Clean Air Act and the NO_x SIP Call required the reduction of oxides of nitrogen from utility sources. Section 6.0 identifies the emission control measures specific to the Central 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 CAAA, Indiana commits to submit to the Administrator, eight (8) years after redesignation, an additional revision of this SIP. The revision will contain Indiana's plan for maintaining the national primary ozone air quality standard for ten (10) years beyond the first ten (10) year period after redesignation.

5.0 TRANSPORTATION CONFORMITY BUDGETS

5.1 On-Road Emission Estimations

The Indianapolis Department of Metropolitan Development (Greater Indianapolis), and the Madison County Council of Governments (Anderson Area) are the Metropolitan Planning Organizations (MPOs) for the nine county Central Indiana Area. The Metropolitan Planning Area (MPA) for the Columbus Area Metropolitan Planning Organization includes Blue River Township in Johnson County and Jackson Township in Shelby County. The remaining portions of Johnson and Shelby County are part of the MPA for the Indianapolis MPO. Modeling for these two township's are performed by the Indianapolis MPO and any changes to the CAMPO Transportation Plan that affects the aforementioned townships will have to be done in coordination with the Indianapolis MPO.

These organizations maintain a travel demand forecast model that is used to simulate the traffic in the area and is used to predict what the traffic would be like 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 forecast model is used to predict the total daily Vehicle Miles Traveled (VMT) and an EPA software program called MOBILE6 is used to calculate the emissions per mile. The product of these two outputs, once combined, is the total amount of pollution emitted by the on-road vehicles for the particular analyzed area.

5.2 Overview

Broadly described, MOBILE6 is used to determine “emission factors”, which are the average emissions per mile (grams/mile) for ozone precursors: NO_x and VOC. 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 effect on the emission factors. The facility-type the vehicles are traveling on (MOBILE6 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 and any Vehicle Inspection/Maintenance program in the area will also affect emissions. These data are estimated using the *best available data* (see section 5.3) to create emission factors for the appropriate ozone precursors, NO_x and VOC. After emission factors are determined, the emission factor(s) must be multiplied by the VMT to determine the quantity of vehicle-related emissions. This information derives from the travel demand model.

It should be noted that each year analyzed will have different emission factors, volumes, speeds and likely some additional links. MOBILE6 input and output files can all be found in Appendix E.

5.3 Analysis Years

The travel demand model contains road networks that are time specific. The Central Indiana MPOs have modeled the years 2002, 2006, 2010, 2020, and 2030. Information, including emissions, has also been interpolated from 2002 and 2006 for the year 2005, and from 2010 and 2020 for the year 2015. This Redesignation Petition provides emission inventory estimates for 2002, 2005, 2006, 2010, 2015 and 2020 to meet the requirements specified by the Clean Air Act and the U.S. EPA. The emissions estimates outlined in Section 4 of this document reference the 2005, 2010, 2015 and 2020 mobile source emissions data referenced below in Table 5.1.

5.4 Emission Estimations

Table 5.1 contains the results of the emissions estimates by county for the years 2002, 2005, 2006, 2010, 2015, 2020, and 2030.

**Table 5.1 - Emission Estimates in Tons Per Summer Day for On-Road Mobile Sources-
Central Indiana Area**

NOx

	2002	2005*	2006	2010	2015**	2020	2030
Boone	7.04	5.52	5.01	3.76	2.66	1.56	1.23
Hamilton	16.11	12.71	11.58	9.04	6.49	3.94	3.17
Hancock	7.26	5.66	5.13	3.92	2.79	1.66	1.37
Hendricks	9.03	7.02	6.35	5.04	3.54	2.03	1.64
Johnson	10.29	8.02	7.26	5.54	3.93	2.31	1.86
Madison	10.92	8.48	7.66	5.77	4.08	2.40	1.68
Marion	75.11	59.35	54.10	38.61	27.20	15.79	12.15
Morgan	6.48	4.97	4.47	3.48	2.45	1.42	1.11
Shelby	6.14	5.01	4.63	3.24	2.29	1.34	1.06
Total	148.38	116.74	106.19	78.40	55.42	32.45	25.27

VOC

	2002	2005*	2006	2010	2015**	2020	2030
Boone	3.31	2.55	2.29	1.94	1.55	1.16	1.21
Hamilton	9.38	7.22	6.50	5.49	4.42	3.34	3.54
Hancock	3.61	2.76	2.48	2.12	1.71	1.30	1.45
Hendricks	4.52	3.43	3.07	2.68	2.15	1.61	1.69
Johnson	5.28	4.03	3.61	3.09	2.49	1.88	1.99
Madison	6.19	4.54	3.99	3.43	2.72	2.01	1.84
Marion	40.68	31.33	28.21	22.05	17.58	13.10	12.96
Morgan	3.38	2.47	2.17	1.86	1.47	1.08	1.10
Shelby	2.71	2.18	2.00	1.53	1.26	0.99	1.06
Total	79.06	60.50	54.32	44.19	35.33	26.47	26.84

*2005 emissions were interpolated from 2002 and 2006 estimates.

**2015 emissions were interpolated from 2010 and 2020 estimates.

5.5 Motor Vehicle Emission Budget-Regional

Table 5.2 contains the motor vehicle emissions budgets in tons per summer day for the Central Indiana Area for the years 2006 and 2020.

**Table 5.2 – Mobile Vehicle Emission Budgets in Tons Per Summer Day-
Central Indiana Area**

	2006	2020
VOC	54.32	29.52
NOx	106.1 9	35.69

These budgets include the emissions estimates calculated for 2006 and 2020. A reasonable margin of safety has been applied to the budgets for the year 2020. The emission estimates are derived from the MPOs travel demand models and MOBILE6 as described above. Margins of safety are used to accommodate the wide array of assumptions that are factored into the calculation process. Since assumptions change over time, it is necessary to have a margin of safety that will accommodate the impact of refined assumptions in the process. With the margins of safety applied to the 2020 budgets, the 2020 total VOC and NO_x emissions remain well below the base year emissions referenced in Table 4.1.

The interagency consultation partners chose to include budgets for the year 2006 to assist in streamlining the transportation conformity process. These 2006 budgets shall supersede the 2006 1-hour maintenance plan budgets for Marion County. The year 2006 was chosen because it represents the year the area attained the 8-hour ozone standard and the travel demand models contain a network for 2006, but not 2005. The nine county 8-hour ozone maintenance area is much broader than the single county 1-hour maintenance area that included Marion County only. However, in comparing the 2006 1-hour maintenance plan emissions budgets for Marion County to the 2006 emissions estimates for Marion County referenced in Table 5.1, the budgets contained herein for 2006 can be deemed more stringent. This is illustrated in Table 5.3 below:

Table 5.3 – 2006 Mobile Vehicle Emissions Comparison in Tons Per Summer Day-Marion County

Marion County	VOC	NOx
2006-1 hour budget	71.7	63.10
2006-8 hour budget	28.2 1	54.10

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

6.0 CONTROL MEASURES AND REGULATIONS

This section provides specific information on the control measures implemented in the Central Indiana Area, including CAAA requirements and additional state or local measures implemented beyond CAAA requirements.

6.1 Reasonably Available Control Technology (RACT)

As required by Section 172 of the CAAA, Indiana in the mid-1990s promulgated rules requiring RACT for emissions of VOCs. There were no specific rules required by the CAAA such as RACT for existing sources beyond statewide rules for the Central Indiana Area as defined in Sections 1.1 and 1.2. 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 Organic Solvent Degreasing Operations
- 326 IAC 8-4 Petroleum Sources
- 326 IAC 8-5 Miscellaneous Operation
- 326 IAC 8-6 Organic Solvent Emission Limitations

326 IAC 8-8.1-1 Municipal Solid Waste Landfills Not Located in Clark, Floyd, Lake, and Porter Counties

As a result of its designation under the one-hour ozone standard, sources that existed after July 1, 1990 in Marion County are also subject to the RACT rules above. In addition, a select group of collar counties are subject to portions of 326 IAC 8-4 (8-4-4 through 8-4-7 and 8-4-9) that do not apply statewide, including Boone, Hancock, Hamilton, Johnson, Morgan, and Shelby Counties. Please note that all sections of 326 IAC 8-4 apply to Hendricks and Marion Counties with the exception of 326 IAC 8-4-6(e).

6.2 Implementation of Past SIP Revisions

This nonattainment area was not required to develop an Attainment Demonstration SIP for the one-hour ozone NAAQS. Similarly, since the area was only recently designated nonattainment for ozone and the area has now attained the standard, no Attainment Demonstration SIP is required to bring the area into attainment for the 8-hour ozone NAAQS. Therefore, this requirement does not apply.

6.3 Nitrogen Oxides (NO_x) Rule

The U.S. EPA NO_x SIP Call required twenty-two (22) states to adopt rules that would result in significant emission reductions from large EGUs, industrial boilers, and cement kilns in the eastern United States. Indiana adopted this rule in 2001. Beginning in 2004, this rule accounts for a reduction of approximately thirty-one percent (31%) of all NO_x emissions statewide compared to previous uncontrolled years.

Twenty-one other states have also adopted these rules. The result is that significant reductions have occurred upwind and within the Central Indiana Area nonattainment area because of the number of affected units within the region. From Graphs 4.3 and 4.4 it can be seen that emissions covered by this program have been trending downward since 1999. Table 6.1, compiled from data taken from the U.S. EPA Clean Air Markets website, quantifies the gradual NO_x reductions that have occurred in Indiana as a result of Title IV (Acid Rain) of the Clean Air Act Amendments and the beginning of the NO_x SIP Call Rule. This cap will stay in place through 2008, at which time the caps in the CAIR program will supersede it.

Further, U.S. EPA has recently published Phase II of the NO_x SIP Call that establishes a budget for large (greater than 1 ton per day emissions) stationary internal combustion engines. This rule will decrease emissions statewide from natural gas compressor stations by 4,263 tons during the ozone season. This rule became effective February 26, 2006. Implementation of this rule will be in 2007.

TABLE 6.1 Trends in EGU Ozone Season NO_x Emissions Statewide in Indiana

Year	NO_x Emissions, tons / ozone season
1997	152,834
1998	159,931
1999	149,827
2000	133,881
2001	136,121
2002	114,082
2003	99,967
Cap 2004-2009	43,654

6.4 Measures Beyond Clean Air Act SIP Requirements

Reductions in ozone precursor emissions have occurred, or are anticipated to occur, as a result of local and federal control programs. These additional control measures include:

Tier II Emission Standards for Vehicles and Gasoline Sulfur Standards

In February 2000, U.S. EPA finalized a federal rule to significantly reduce emissions from cars and light trucks, including sport utility vehicles (SUVs). Under this regulation, automakers will be required to sell cleaner cars, and refineries will be required to make cleaner, lower sulfur gasoline. This rule applies nationwide. The federal rules will be phased in between 2004 and 2009. U.S. EPA has estimated that NO_x emission reductions will be approximately seventy-seven percent (77%) for passenger cars, eighty-six percent (86%) for smaller SUVs, light trucks, and minivans, and sixty-five to ninety-five percent (65-95%) reductions for larger SUVs, vans, and heavier trucks. VOC emission reductions will be approximately twelve percent (12%) for passenger cars, eighteen percent (18%) for smaller SUVs, light trucks, and minivans, and fifteen percent (15%) for larger SUVs, vans, and heavier trucks.

Heavy-Duty Diesel Engines

In July 2000, U.S. EPA issued a final rule for Highway Heavy Duty Engines, a program that includes low-sulfur diesel fuel standards, which will be phased in from 2004 through 2007. This rule applies to heavy-duty gasoline and diesel trucks and buses. This rule will result in approximately a forty percent (40%) reduction in NO_x from diesel trucks and buses, a large sector of the mobile sources NO_x inventory.

Clean Air Nonroad Diesel Rule

In May 2004, U.S. EPA issued the Clean Air Nonroad Diesel Rule. This rule applies to diesel engines used in industries such as construction, agriculture, and mining. It also contains a cleaner fuel standard, similar to the highway diesel program. The new standards will cut emissions from nonroad diesel engines by over ninety percent (90%). Nonroad diesel equipment, as described in this rule, currently accounts for forty-seven (47%) percent of diesel particulate matter (PM) and twenty-five percent (25%) of

nitrogen oxides (NO_x) from mobile sources nationwide. Sulfur levels will be reduced in nonroad diesel fuel by ninety-nine percent (99%) from current levels, from approximately three-thousand (3,000) parts per million (ppm) now to (fifteen) 15 ppm in 2010. New engine standards take effect, based on engine horsepower, starting in 2008.

VOC Control Rules-MRPO States

IDEM is proposing to implement statewide VOC control rules that have been agreed to by the MRPO states (Illinois, Indiana, Michigan, Ohio, and Wisconsin) to address regional ozone and particulate matter nonattainment areas in the upper Midwest. The rules will apply region-wide to automobile refinishing, architectural and industrial maintenance (AIM) coatings, consumer products, degreasing, portable fuel containers and Stage I vapor recovery.

Together, these rules will substantially reduce local and regional sources of ozone precursors. The modeling analyses discussed in Section 7.0 include these rules and show the ozone 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 VOC or NO_x sources as required for maintenance of the ozone standard in the Central Indiana Area.

Indiana, through IDEM's Office of Air Quality and its Office of Enforcement, 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 ozone precursors in the Central 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 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 facility that is not listed in the 2002 emission inventory, or for the closing of which credit 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.

6.7 Local Air Quality Mitigation

The City of Indianapolis Office of Environmental Services (OES) has worked with the community to identify and implement a number of locally enforceable control measures via ordinance and regulation in addition to ozone awareness and voluntary reduction activities.

Regulatory Measures

Chapter 511 “Air Pollution Control” of the Consolidated City of Indianapolis and Marion County is the ordinance that creates the regulatory framework for the Office of Environmental Services including the permitting, compliance, and enforcement activities. The ordinance also creates the authority for the Indianapolis Air Pollution Control Board to promulgate regulations. Many of the City’s regulations are established through adoption and incorporation by reference of the State of Indiana regulations; however, several of the City’s ordinance sections and regulations were created specifically to ensure the City’s protection of the air quality.

The ordinance and regulations address the following subjects:

<u>Ordinance or Regulation</u>	<u>Subject</u>
Chapter 511, Sections 511-701 through 511-709	Open Burning Prohibitions
Regulation 4, Section 3	Outdoor Wood-fired Heating Devices (new installation banned)
Regulation 5, Section 2	Vehicle or Engine Operations (prohibits visible emissions from vehicles)

Voluntary Measures

Knozone Program

Beginning in 1995, the City began the Knozone Program to educate citizens about ground level ozone and measures to be taken when ozone levels are high. The Knozone Program website is www.knozone.com. The City participates in many community events and promotes ozone reduction at every opportunity. The Knozone Program has developed teacher kits for 3rd grade students and comic books for elementary school children, sponsored bike give-aways, met with local television and radio media to promote ozone awareness, advertised the program on billboards and radio, and provided information to citizens.

The program continues to expand its message into other Central Indiana counties in addition to promoting awareness of the health effects of fine particulates and ozone in Central Indiana.

The City monitors the air quality and declares “Knozone Air Quality Action Days” when the air quality index is forecasted to be “Unhealthy for Sensitive” groups or higher.

To date, the City has obtained grant funds in excess of \$1,000,000 to promote ozone awareness in Central Indiana.

Diesel Oxidation Catalyst Program

In 2005, the City obtained grant funding to modify existing municipal diesel vehicles and equipment by replacing the mufflers with diesel oxidation catalysts (DOC). The DOC program has resulted in 84 municipal vehicle retrofits in Marion County so far.

Additionally in 2005, the City obtained grant funding and retrofitted 175 Indianapolis Public School diesel school buses with DOCs.

As the result of a local company's settlement with the United States Environmental Protection Agency, the City obtained \$145,000 to retrofit municipal vehicles outside Marion County in the eight (8) other non-attainment counties in Central Indiana.

Idle Reduction Program

In 2006, the City implemented an idle reduction policy for all municipal vehicles including the police and fire departments. The City's policy emphasizes the importance of not idling unnecessarily to reduce air pollution and provide fuel savings.

A local environmental group, Improving Kids' Environment, has obtained a grant to educate and implement idle reduction programs, with the City's assistance, at elementary schools in Marion County.

Although several of these local air quality mitigation efforts are not deemed permanent and enforceable under state or federal authority, they are a valuable asset to the community and will continue to further supplement air quality improvements in the region.

7.0 MODELING AND METEOROLOGY

Although U.S. EPA's redesignation guidance does not require modeling for ozone nonattainment areas seeking redesignation, extensive modeling has been performed covering the Central Indiana region to determine the effect of national emission control strategies on ozone levels. These modeling analyses determined that Marion, Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Morgan and Shelby Counties are significantly impacted by ozone and ozone precursor transport, and regional NO_x reductions are an effective way to attain the 8-hour standard in this area. Future year modeled ozone concentrations are expected to be reduced by 10% to 20% from baseline design values. Examples of these modeling analyses are listed below.

7.1 Summary of Modeling Results for National Emission Control Strategies in Final Rulemakings

U.S. EPA Modeling Analysis for HDE Final Rulemaking

U.S. EPA conducted modeling for Tier II vehicles and low-sulfur fuels. This analysis was performed in 2000 to support final rulemaking for the Heavy Duty Engine (HDE) and Vehicle Standards and Highway Diesel Fuel and its expected impact on ozone levels. "Technical Support Document for the Heavy Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements: Air Quality Modeling Analyses" (EPA420-R-00-028) was referenced for support of this ozone redesignation for the Central Indiana counties. Base year

emissions from 1996 were modeled for three ozone episodes: June 12-24, 1995; July 5-15, 1995; and August 7-21, 1995. Results of this modeling show that these fuel and engine emission control measures and the NO_x SIP Call would reduce ozone in the Central Indiana counties. Relative Reduction Factors (RRF) were calculated for each monitor in Marion, Hamilton, Hancock, Johnson, Madison and Morgan Counties (ozone monitors in Boone, Hendricks and Shelby Counties were not in operation at the time modeling was conducted) for future years 2007 and 2020. These RRFs were applied to the three-year (2001-2003) design values at the ozone monitors in the Central Indiana counties. The resulting future year design values for 2007 and 2020 were calculated and are shown below in Table 7.1. The modeled 2007 future year design values for all monitors in Central Indiana were reduced by 11% to 21% of the 2001-2003 design values and the modeled 2020 future year design values were reduced by 10% to 20% of the 2001-2003 design values. All ozone monitors are projected to attain the 8-hour ozone NAAQS of 0.085 ppm in 2007 as a result of the Tier II vehicles and low-sulfur fuels rule. It should be noted that the modeling was conducted using 1996 emissions and additional federal emission control measures have been implemented which will lower modeled concentrations.

Table 7.1 - Modeling Results for Central Indiana from U.S. EPA HDE Rulemaking

Monitor ID	Monitor Name	County	Design Value 2001-2003 (ppm)	Modeled Relative Reduction Factor (RRFs) 2007 Control	Future Design Value 2007 (ppm)	Modeled Relative Reduction Factor (RRFs) 2020 Control	Future Design Value 2020 (ppm)
180970042	Mann Rd.	Marion	0.0817	0.8411	0.0687	0.8501	0.0694
180970050	Fort Harrison	Marion	0.0927	0.8603	0.0797	0.8716	0.0808
180970057	Harding St.	Marion	0.0850	0.8873	0.0754	0.8992	0.0764
180970073	NAC	Marion	0.0897	0.8603	0.0771	0.8716	0.0782
180571001	Noblesville	Hamilton	0.0967	0.8332	0.0805	0.8428	0.0815
180590003	Fortville	Hancock	0.0940	0.8342	0.0784	0.8436	0.0793
180810002	Trafalgar	Johnson	0.0860	0.7932	0.0682	0.7997	0.0688
180950010	Emporia	Madison	0.0950	0.8144	0.0774	0.8229	0.0782
181090005	Monrovia	Morgan	0.0857	0.8181	0.0701	0.8260	0.0708

7.2 Summary of Modeling Results to Support Rulemakings

U.S. EPA Modeling for Clean Air Interstate Rule (CAIR), 2005

On March 10, 2005, the U.S. EPA finalized the Clean Air Interstate Rule (CAIR). NO_x emissions from power plants will be cut by 1.7 million tons by 2009 and emissions will be reduced by 1.3 million tons in 2015 in 28 eastern states and the District of Columbia. As a result of implementation of CAIR, Indiana will reduce NO_x emissions by 113 thousand tons from 2009 emissions projections without CAIR and 149 thousand tons from 2015 emissions projections without CAIR.

U.S. EPA performed modeling to support the associated emission reductions. The modeling was based on 1999 through 2003 design values. Future year modeling was conducted, including all Central Indiana Counties, and the future year design values for 2010 and 2015 were evaluated for attainment of the 8-hour ozone NAAQS, as shown below in Table 7.2. Results of the CAIR modeling show that all Central Indiana counties will attain the 8-hour ozone NAAQS in 2010 with modeled concentrations reduced by 12 % to 15%, and remain below 0.085 ppm. With further reductions projected in CAIR for 2015, all design values continue to decrease by 15% to 20% and continue to attain the 8-hour ozone NAAQS.

Table 7.2 Modeling Results from U.S. EPA for the Clean Air Interstate Rule

County	MSA/CMSA	Design Value 1999-2003	Future Design Value 2010 with CAIR	Future Design Value 2015 with CAIR
		(ppm)	(ppm)	(ppm)
Marion	Indianapolis	0.0900	0.0796	0.0746
Boone	Indianapolis	0.0890	0.0781	0.0730
Hamilton	Indianapolis	0.0933	0.0817	0.0762
Hancock	Indianapolis	0.0917	0.0804	0.075
Hendricks	Indianapolis	0.0865	0.0759	0.0709
Johnson	Indianapolis	0.0867	0.0738	0.0688
Madison	Indianapolis	0.0910	0.0786	0.0729
Morgan	Indianapolis	0.0867	0.0757	0.0706
Shelby	Indianapolis	0.0935	0.0816	0.0762

LADCO modeling for Clean Air Interstate Rule (CAIR)

LADCO conducted modeling to determine the impact of CAIR in the Midwest. The modeling was based on 2000 through 2004 design values. Future year modeling for 2009, 2012, and 2018 was conducted and the future year design values were determined, as shown below in Table 7.3.

Table 7.3 LADCO's Round 4 Modeling Results for the Clean Air Interstate Rule

Monitor ID	Monitor Name	County	Design Value 2000-2004	Basecase with CAIR - 2009	Basecase with CAIR - 2012	Basecase with CAIR - 2018
			(ppm)	(ppm)	(ppm)	(ppm)
180970042	Mann Rd.	Marion	0.0807	0.0740	0.0732	0.0684
180970050	Fort Harrison	Marion	0.0900	0.0837	0.0824	0.0768
180970057	Harding St.	Marion	0.0837	0.0774	0.0763	0.0712
180970073	NAC	Marion	0.0880	0.0808	0.0795	0.0741
180110001	Whitestown	Boone	0.0879	0.0799	0.0782	0.0726
180571001	Noblesville	Hamilton	0.0904	0.0837	0.0820	0.0759
180590003	Fortville	Hancock	0.0896	0.0838	0.0821	0.0760
180630004	Avon	Hendricks	0.0847	0.0766	0.0751	0.0698
180810002	Trafalgar	Johnson	0.0847	0.0766	0.0751	0.0698
180950010	Emporia	Madison	0.0917	0.0816	0.0795	0.0731
181090005	Monrovia	Morgan	0.0850	0.0756	0.0740	0.0687
181450001	Fairland	Shelby	0.0913	0.0829	0.0810	0.0753

Results of the CAIR modeling show that all Central Indiana Counties will attain the 8-hour

ozone NAAQS of 0.085 ppm by 2009. Future year modeled ozone concentrations for 2009 will be 6% to 11% lower than baseline ozone design values, 8% to 13% lower in 2012 and 15% to 20% lower in 2018. Ozone concentrations are predicted to continue to decrease and remain in attainment of the 8-hour ozone NAAQS of 0.085 ppm.

7.3 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 Central Indiana Counties into attainment of the 8-hour ozone NAAQS. 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 the NO_x SIP Call, Heavy Duty Engine and Highway Diesel Fuel and Tier II/Low Sulfur Fuel and Clean Air Interstate Rule has shown that future year design values for the Central Indiana Counties will attain the ozone standard with modeled future year design values below 0.085 ppm. U.S. EPA future year modeling of national emission control strategies showed the Central Indiana Counties will attain the 8-hour ozone NAAQS without additional national emission controls. Future national and local emission control strategies will ensure that each Central Indiana County's attainment will be maintained with an increasing margin of safety over time.

7.4 Temperature Analysis for Central Indiana

Meteorological conditions are one of the most important factors that influence ozone development and transport. A temperature analysis has been conducted to determine how the temperatures during the ozone conducive months of May, June, July, August and September compare to normal temperatures for Central Indiana. Temperature information was taken from the National Weather Service (NWS) Station at Indianapolis International Airport in Indianapolis, Indiana. Available normal maximum temperatures by summer months from 1971 through 2000 for the Central Indiana area are as follows:

May – 73.5° F
June – 82.1° F
July – 85.6° F
August – 83.7° F
September – 77.4° F
May - September – 80.5° F

Central Indiana's monthly maximum temperatures for the previous nine years (1998 through 2006) during the summer months of May, June, July, August, and September are compared to normal summer month temperatures in Table 7.4. Overall, the temperatures during the 1998, 1999, 2002 and 2005 summer months were 1% to 2% above normal while temperatures during the 2000, 2001, 2003, 2004 and 2006 summer months were normal to 1% - 3% lower than the normal temperatures. Table 7.4 shows the average maximum temperatures and the percent difference from normal for each year.

Table 7.4 Analysis of Maximum Temperatures for Central Indiana Counties

(Percent Change from Maximum Temperature (°F) Normals (1971 – 2000))

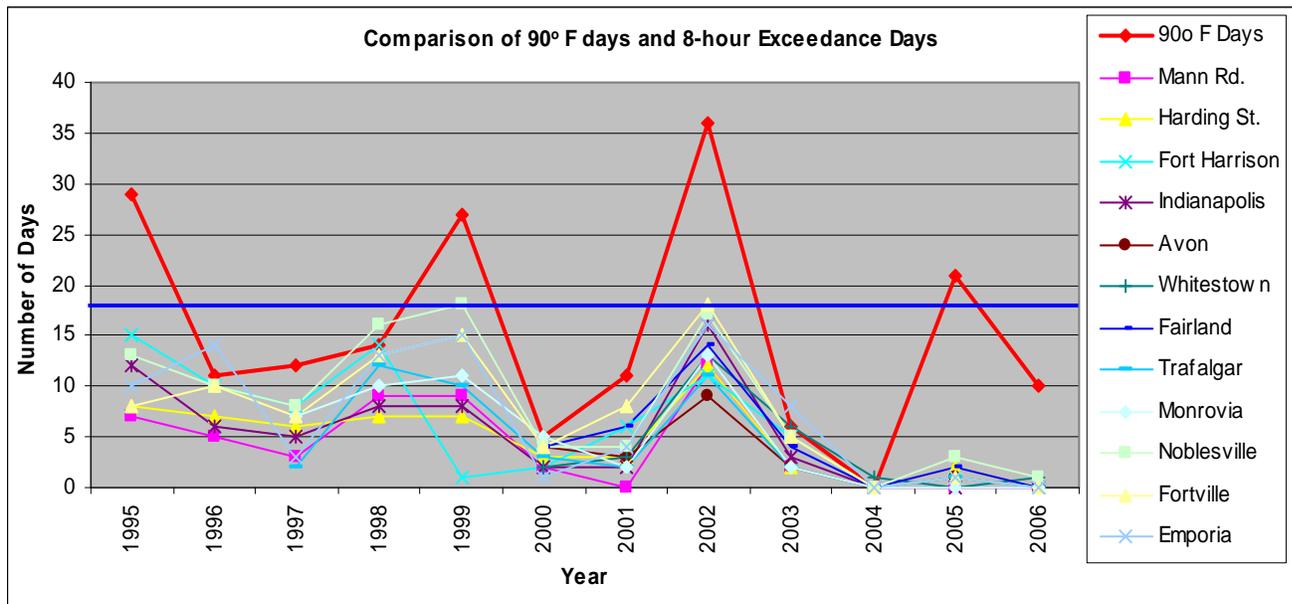
	Normal Max	1998		1999		2000		2001		2002	
		Max	%								
May	73.5	76.4	+4	75.1	+2	74.9	+2	74.6	+1	70.4	-4
June	82.1	80.3	-2	82.3	0	80.2	-2	79.5	-3	83.6	+2
July	85.6	84.0	-2	89.2	+4	82.4	-4	83.9	-2	88.2	+3
August	83.7	84.5	+1	83.3	0	82.6	-1	85.2	+2	86.7	+4
September	77.4	83.0	+7	81.2	+5	75.5	-2	75.4	-3	82.1	+6
AVE. May-Sept.	80.5	81.6	+1	82.2	+2	79.1	-2	79.7	-1	82.2	+2
	Normal Max	2003		2004		2005		2006			
		Max	%	Max	%	Max	%	Max	%		
May	73.5	70.3	-4	76.2	+4	71.2	-3	70.7	-4		
June	82.1	78.0	-5	80.7	-2	84.3	+3	80.1	-2		
July	85.6	83.4	-3	81.6	-5	85.9	0	85.3	0		
August	83.7	83.9	0	78.9	-6	85.5	+2	83.4	0		
September	77.4	74.2	-4	79.4	+3	80.4	+4	72.9	-6		
AVE. May-Sept.	80.5	78.0	-3	79.4	-1	81.5	+1	78.5	-2		

The number of days with temperatures of 90° F and higher was collected from the NWS Station at the Indianapolis International Airport from 1971 through 2000. The average number of 90° F and higher days for the Central Indiana area is 17.6. Table 7.5 shows a comparison of 8-hour ozone exceedances and temperatures at 90° F and higher while Graph 7.1 shows the correlation graphically.

Table 7.5 - Comparison of Days with 90° F and 8-Hour Ozone Exceedance Days

Number of Days with Temperatures of 90° F and higher													
	Normal	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
# of 90° F days	17.6	29	11	12	14	27	5	11	36	6	0	21	10
Number of 8-Hour Exceedance Days at the Central Indiana area ozone monitors													
Monitor	County	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Mann Rd.	Marion	7	5	3	9	9	2	0	12	2	0	0	0
Fort Harrison	Marion	15	10	8	14	1	2	6	11	5	0	1	0
Harding St.	Marion	8	7	6	7	7	3	3	12	2	0	2	0
NAC	Marion	12	6	5	8	8	2	2	16	3	0	0	0
Whitestown	Boone						2	3	13	6	1	0	1
Noblesville	Hamilton	13	10	8	16	18	4	4	17	5	0	3	1
Fortville	Hancock	8	10	7	13	15	4	8	18	5	0	1	0
Avon	Hendricks						4	3	9	2	0	1	0
Trafalgar	Johnson			2	12	10	3	2	11	2	0	1	0
Emporia	Madison	10	14	3	13	15	1	4	16	8	0	1	0
Monrovia	Morgan			7	10	11	5	2	13	2	0	0	0
Fairland	Shelby						4	6	14	4	0	2	0

Graph 7.1 - Comparison of Days with 90° F and 8-Hour Ozone Exceedance Days



As can be seen, a greater number of ozone exceedance days per year correlate with a greater number of 90° F days per year. The effects of national control measures, such as the NO_x SIP Call in 2004 appear to have had an impact on the number of ozone exceedance days per year. This is evident because 2005 had a higher than average number of days with temperatures of 90° F or more but the number of 8-hour exceedance days was low. While other meteorological factors may have influenced this to some degree, it appears that the lower emissions helped to keep 8-hour exceedance days lower during the ozone-conducive conditions of 2005. The overall trend of lower ozone concentrations in Central Indiana over the past several years is shown in the Graph 7.1 above.

7.5 Summary of Meteorological Conditions

The analysis of the departure from normal of the maximum temperatures during the summer months shows variation in the number of 90° F days per year as illustrated in Table 7.5. The analysis shows that 20 or more days with temperatures of 90° F and higher occurred in 1995, 1999, 2002 and 2005. The number of 8-hour ozone exceedance days for those years shows a greater correlation to the number of higher temperature days. However, the years with a lesser number of 90° F days still yielded 8-hour ozone exceedance days. This is why U.S. EPA developed the 8-hour standard as a 4th high ozone value averaged over 3 years to account for variations in temperature. However, national emission control strategies implemented over the past several years have helped to lower ozone values in the Central Indiana area. Lower ozone values correspond to lowered local and regional ozone precursor emissions. Despite summer temperature variations over the previous twelve years, ozone values in all the Central Indiana counties have decreased fairly consistently since 1995.

8.0 CORRECTIVE ACTIONS

8.1 Commitment to Revise Plan

As noted in Section 4.6 above, Indiana hereby commits to review its Maintenance Plan eight (8) years after redesignation, as required by Section 175A of the CAAA.

8.2 Commitment for Contingency Measures

Indiana hereby commits to adopt and expeditiously implement necessary corrective actions in the following circumstances:

Warning Level Response:

A Warning Level Response shall be prompted whenever an annual (1-year) fourth high monitored value of 0.089 ppm occurs in a single ozone season, or a two (2)-year average fourth high monitored value of 0.085 parts per million (ppm) or greater occurs within the maintenance area. A Warning Level Response will consist of a study to determine whether the ozone value indicates a trend toward higher ozone values or whether emissions appear to be increasing. The study will evaluate whether the trend, if any, is likely to continue and, if so, the control measures necessary to reverse the trend taking into consideration ease and timing for implementation, as well as economic and social considerations. Implementation of necessary controls in response to a Warning Level Response trigger will take place as expeditiously as possible, but in no event later than twelve (12) months from the conclusion of the most recent ozone season (September 30).

Should it be determined through the Warning Level study that action is necessary to reverse the noted trend, the procedures for control selection and implementation outlined under “Action Level Response” shall be followed.

Action Level Response

An Action Level Response shall be prompted whenever a violation of the standard (three (3)-year average fourth high value of 0.085 ppm or greater) occurs. In the event that the Action Level is triggered and is not found to be due to an exceptional event, malfunction, or noncompliance with a permit condition or rule requirement, IDEM will determine additional control measures needed to assure future attainment of NAAQS for ozone. In this case, measures that can be implemented in a short time will be selected in order to be in place within eighteen (18) months from the close of the ozone season that prompted the Action Level.

Control Measure Selection and Implementation

Adoption of any additional control measures is subject to the necessary administrative and legal process. 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, Indiana 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 below are example measures that may be considered, if necessary. This listing of example measures derives in part through the collaborative efforts of the Central Indiana Air Quality Advisory Group (CIAQAG). This group was composed of local government representatives of all nine Central Indiana nonattainment counties as well as environmental groups, industry representatives, and other stakeholders. The CIAQAG spent two years carefully evaluating VOC and NO_x emission control measures and reached a consensus on a list of prioritized measures for IDEM to consider for SIP development purposes in April 2006. IDEM is proceeding with rulemaking action to support the implementation of several of the CIAQAG's recommended measures, including greater geographic applicability of Stage I vapor recovery requirements, emission standards for portable fuel containers, degreasing, and automobile refinishing.

The selection of measures for implementation 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 all interested and affected persons in the maintenance area, including the CIAQAG, prior to selecting appropriate contingency measures. All of the listed contingency measures are potentially effective or proven methods of obtaining significant reductions of ozone 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 outlined below is not comprehensive. Indiana 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) Lower-Reid vapor pressure gasoline program.
- 2) Broader geographic applicability of existing measures.
- 3) Tighten RACT on existing sources covered by U.S. EPA Control Technique Guidelines issued in response to the 1990 CAAA.
- 4) Apply RACT to smaller existing sources.
- 5) A modern vehicle inspection/maintenance program.
- 6) One or more transportation control measures sufficient to achieve at least a half a percent (0.5%) reduction in actual area wide VOC 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 affects state and local governments.
- 7) Alternative fuel and diesel retrofit programs for fleet vehicle operations.
- 8) Require VOC or NO_x emission offsets for new and modified major sources.
- 9) Require VOC or NO_x emission offsets for new and modified minor sources.
- 10) Increase the ratio of emission offsets required for new sources.
- 11) Require VOC or NO_x controls on new minor sources (less than 100 tons).

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. IDEM expects that the additional statewide VOC measures being adopted by Indiana and the other MRPO States as discussed in Section 6.1 will provide for a margin of safety over and above the modeled future year design values illustrated in Section 7.

9.0 PUBLIC PARTICIPATION

Indiana published notification for a public hearing and solicitation for public comment concerning the draft Redesignation Petition and Maintenance Plan in The Indianapolis Star/News, Indianapolis, Indiana, The Reporter Times, Martinsville, Indiana, Shelbyville News, Shelbyville, Indiana and the Anderson Herald Bulletin, Anderson, Indiana on February 1, 2007.

A public hearing to receive comments on the redesignation request was conducted on March 6, 2007 in Indiana Government Center South, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. The public comment period closed on March 9, 2007. No comments were received during the public comment period. Appendix E includes a copy of the public notice, certifications of publication, and the transcript from the public hearing.

10.0 CONCLUSIONS

The Central Indiana Area has attained the NAAQS standard for ozone. This petition demonstrates that the Central Indiana Area has complied with the applicable provisions of the 1990 Amendments to the Clean Air Act regarding redesignation of ozone nonattainment areas. IDEM has prepared a State Implementation and Maintenance Plan that meets the requirement of Section 110 (a)(1) of the 1990 Clean Air Act.

Indiana has performed an analysis that shows the air quality improvements are due to permanent and enforceable measures and that additional significant regional NO_x reductions following implementation of Phase II NO_x and CAIR will ensure continued compliance (maintenance) with the standard. Based on this presentation, the Central Indiana Area Ozone Basic Nonattainment

Area meets the requirements for redesignation under the CAA and U.S. EPA guidance. Furthermore, because this area is subject to significant transport of pollutants, significant regional NO_x reductions will ensure continued compliance (maintenance) with the standards with an increasing margin of safety.

Consistent with the authority granted to the U.S. EPA, the State of Indiana hereby requests that the Central Indiana Area Ozone Basic Nonattainment Area be redesignated to attainment simultaneously with U.S. EPA approval of the Indiana State Implementation and Maintenance Plan provisions contained herein.

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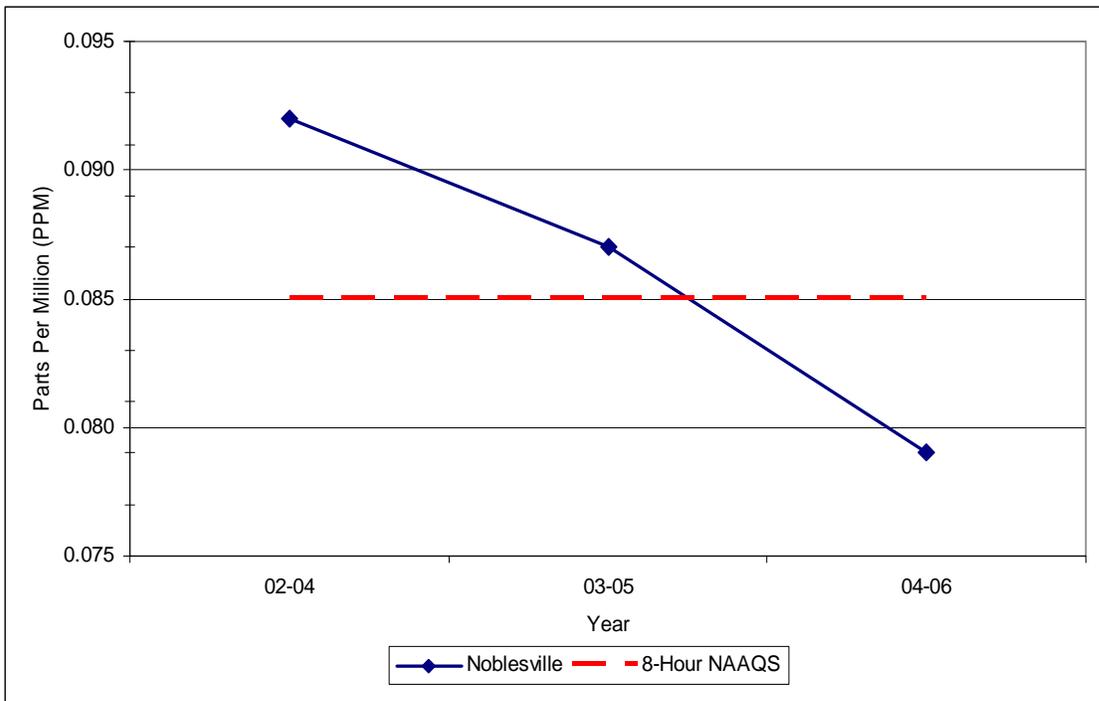
APPENDIX A

Aerometric Information Retrieval System (AIRS) Data

AIRS ID	COUNTY	SITE NAME	YEAR	1 st	2nd	3rd	4th	04-06 Design Value
18-011-0001	Boone	Whitestown	2004	0.089	0.081	0.073	0.072	
18-011-0001	Boone	Whitestown	2005	0.088	0.083	0.082	0.082	
18-011-0001	Boone	Whitestown	2006	0.088	0.082	0.080	0.080	0.078
18-057-1001	Hamilton	Noblesville	2004	0.079	0.077	0.076	0.075	
18-057-1001	Hamilton	Noblesville	2005	0.098	0.092	0.090	0.087	
18-057-1001	Hamilton	Noblesville	2006	0.085	0.080	0.080	0.077	0.079
18-059-0003	Hancock	Fortville	2004	0.077	0.073	0.073	0.072	
18-059-0003	Hancock	Fortville	2005	0.088	0.082	0.081	0.080	
18-059-0003	Hancock	Fortville	2006	0.081	0.077	0.077	0.075	0.075
18-063-0004	Hendricks	Avon	2004	0.075	0.073	0.071	0.071	
18-063-0004	Hendricks	Avon	2005	0.087	0.081	0.079	0.078	
18-063-0004	Hendricks	Avon	2006	0.079	0.075	0.073	0.073	0.074
18-081-0002	Johnson	Trafalgar	2004	0.079	0.075	0.074	0.073	
18-081-0002	Johnson	Trafalgar	2005	0.091	0.080	0.079	0.077	
18-081-0002	Johnson	Trafalgar	2006	0.081	0.080	0.078	0.078	0.076

AIRS ID	COUNTY	SITE NAME	YEAR	1st	2nd	3rd	4th	04-06 Design Value
18-095-0010	Madison	Emporia	2004	0.077	0.072	0.072	0.072	
18-095-0010	Madison	Emporia	2005	0.090	0.083	0.078	0.078	
18-095-0010	Madison	Emporia	2006	0.079	0.076	0.074	0.073	0.074
18-097-0050	Marion	Ft. Benjamin Harrison	2004	0.074	0.074	0.074	0.073	
18-097-0050	Marion	Ft. Benjamin Harrison	2005	0.087	0.082	0.081	0.080	
18-097-0050	Marion	Ft. Benjamin Harrison	2006	0.079	0.078	0.078	0.076	0.076
18-097-0057	Marion	Harding Street	2004	0.070	0.068	0.066	0.066	
18-097-0057	Marion	Harding Street	2005	0.089	0.084	0.082	0.081	
18-097-0057	Marion	Harding Street	2006	0.082	0.077	0.076	0.076	0.074
18-097-0042	Marion	Mann Road	2004	0.071	0.068	0.068	0.065	
18-097-0042	Marion	Mann Road	2005	0.083	0.081	0.077	0.076	
18-097-0042	Marion	Mann Road	2006	0.082	0.078	0.075	0.074	0.071
18-097-0073	Marion	Naval Air Warfare Center	2004	0.075	0.075	0.073	0.071	
18-097-0073	Marion	Naval Air Warfare Center	2005	0.082	0.081	0.081	0.080	
18-097-0073	Marion	Naval Air Warfare Center	2006	0.078	0.073	0.073	0.072	0.074
18-097-0005	Morgan	Monrovia	2004	0.075	0.073	0.072	0.072	
18-097-0005	Morgan	Monrovia	2005	0.084	0.081	0.081	0.078	
18-097-0005	Morgan	Monrovia	2006	0.079	0.077	0.077	0.077	0.075
18-145-0001	Shelby	Fairland	2004	0.079	0.073	0.071	0.071	
18-145-0001	Shelby	Fairland	2005	0.084	0.083	0.082	0.080	
18-145-0001	Shelby	Fairland	2006	0.079	0.077	0.075	0.073	0.074

Site #	Site Name	Three Year 8-hr Design Values				
		00-02	01-03	02-04	03-05	04-06
18-011-0001	Whitestown	0.088	0.090	0.086	0.080	0.078
18-057-1001	Noblesville	0.093	0.096	0.092	0.087	0.079
18-059-0003	Fortville	0.092	0.094	0.088	0.081	0.075
18-063-0004	Avon	0.088	0.085	0.081	0.076	0.074
18-081-0002	Trafalgar	0.087	0.086	0.083	0.076	0.076
18-095-0010	Emporia	0.091	0.095	0.089	0.080	0.074
18-097-0050	Ft. Benjamin Harrison	0.090	0.092	0.088	0.081	0.076
18-097-0057	Harding Street	0.086	0.085	0.080	0.074	0.074
18-097-0042	Mann Road	0.084	0.081	0.077	0.071	0.071
18-097-0073	Naval Air Warfare Center	0.089	0.089	0.086	0.077	0.074
18-109-0005	Monrovia	0.088	0.085	0.082	0.077	0.075
18-145-0001	Fairland	0.093	0.094	0.087	0.080	0.074



Site #	Site Name	Yearly Annual 8-hr Values											
		1995	1996	1997	1998	1999	2000	2001	2002*	2003	2004	2005	2006
18-011-0001	Whitestown	Site Started in April 2000					0.082	0.084	0.099	0.088	0.072	0.082	0.080
18-057-1001	Noblesville	0.096	0.101	0.095	0.100	0.096	0.090	0.088	0.101	0.101	0.075	0.087	0.077
18-059-0003	Fortville	0.097	0.100	0.088	0.094	0.094	0.086	0.089	0.101	0.092	0.072	0.080	0.075
18-063-0004	Avon	Site Started in April 2000					0.087	0.083	0.095	0.079	0.071	0.078	0.073
18-081-0002	Trafalgar	Site Started in April 1997		0.084	0.090	0.095	0.084	0.082	0.097	0.080	0.073	0.077	0.078
18-095-0010	Emporia	0.095	0.098	0.082	0.097	0.093	0.080	0.090	0.104	0.091	0.072	0.078	0.073
18-097-0050	Ft. Benjamin Harrison	0.099	0.096	0.090	0.095	0.096	0.083	0.087	0.100	0.091	0.073	0.080	0.076
18-097-0057	Harding Street	0.091	0.096	0.085	0.087	0.094	0.078	0.081	0.099	0.075	0.066	0.081	0.076
18-097-0042	Mann Road	0.089	0.092	0.084	0.092	0.090	0.082	0.078	0.093	0.074	0.065	0.076	0.074
18-097-0073	Naval Air Warfare Center	0.091	0.090	0.086	0.093	0.096	0.082	0.079	0.106	0.082	0.071	0.080	0.072
18-109-0005	Monrovia	Site Started in April 1997		0.088	0.090	0.093	0.088	0.082	0.094	0.081	0.072	0.078	0.077
18-145-0001	Fairland	Site Started in April 2000					0.087	0.093	0.101	0.089	0.071	0.080	0.073

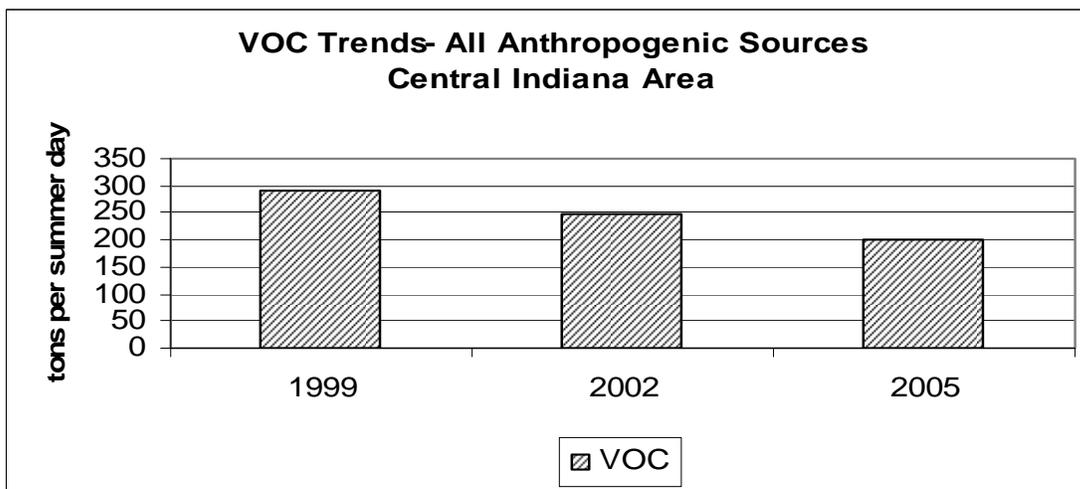
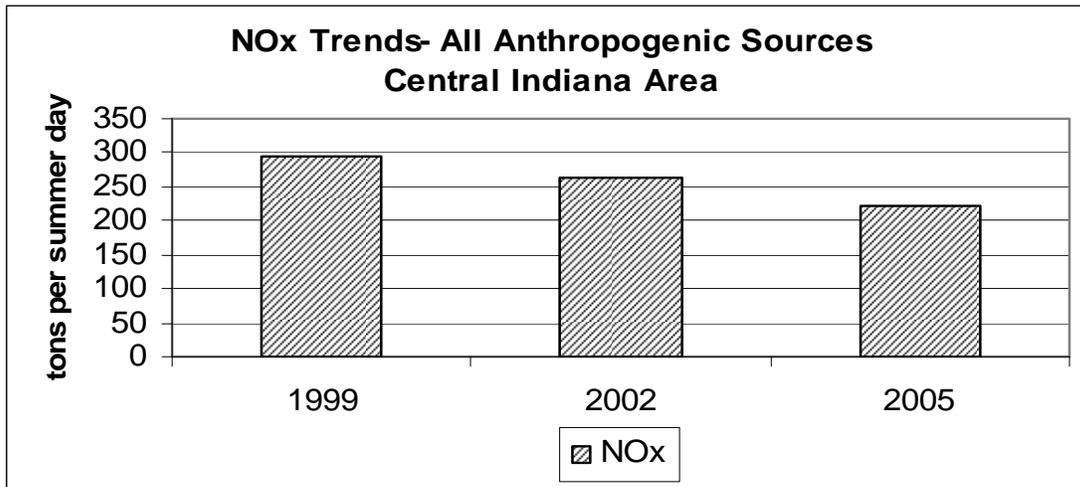
*2002 represents the highest annual average for most sites.

APPENDIX B

Emissions Inventories

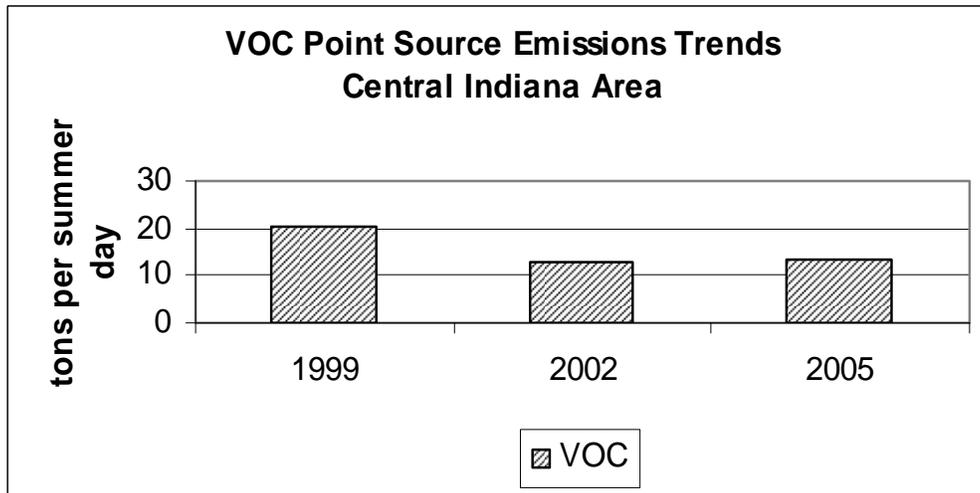
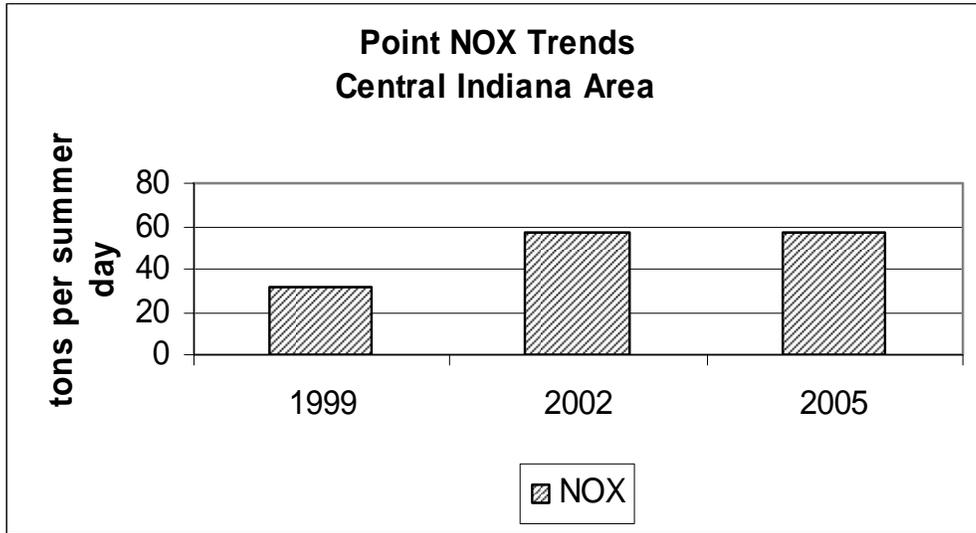
TOTAL

Year	NOX	VOC
1999	293.15	290.84
2002	264.69	249.67
2005	220.18	199.25



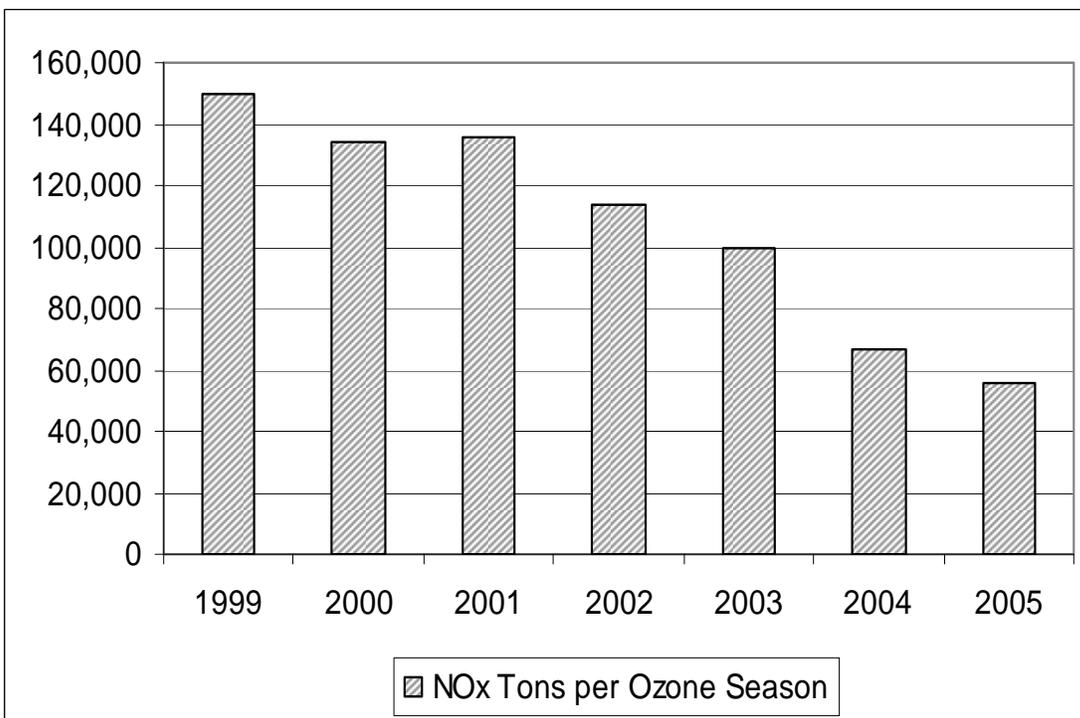
POINT

Year	NOX	VOC
1999	31.28	20.22
2002	57.49	13.06
2004	56.63	13.54



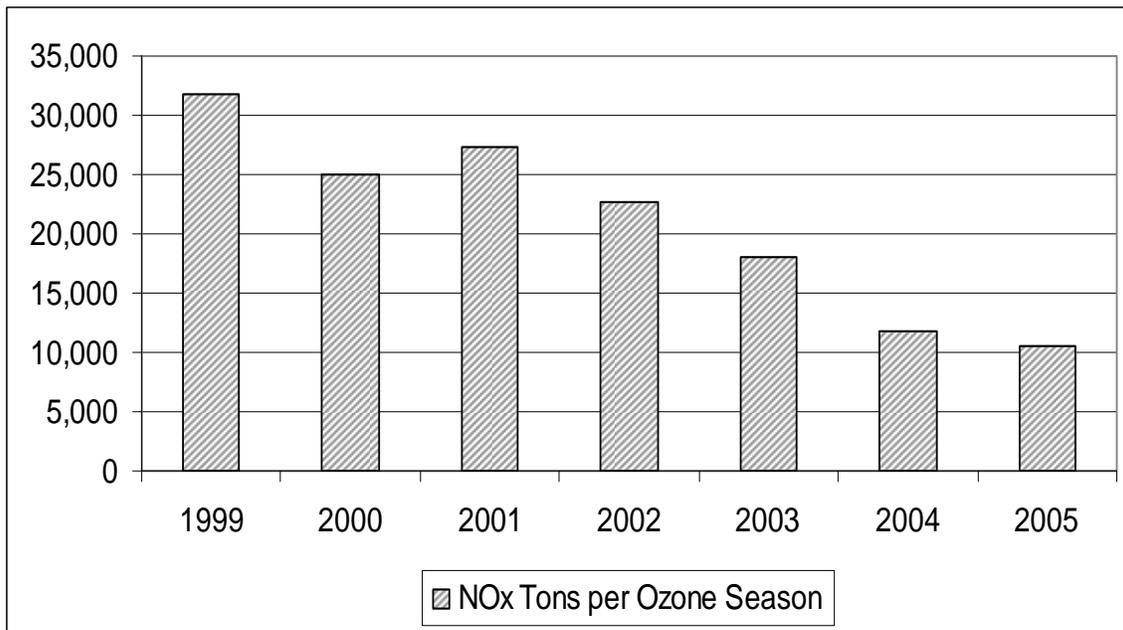
STATEWIDE EGU NOx TRENDS

Year	NOx Tons per Ozone Season
1997	152,834
1998	159,931
1999	149,827
2000	133,881
2001	136,052
2002	113,996
2003	99,283
2004	66,568
2005	55,486



Central Indiana EGU NOx Trends

Year	NOx Tons per Ozone Season
1999	31,815
2000	25,028
2001	27,394
2002	22,661
2003	17,984
2004	11,798
2005	10,591

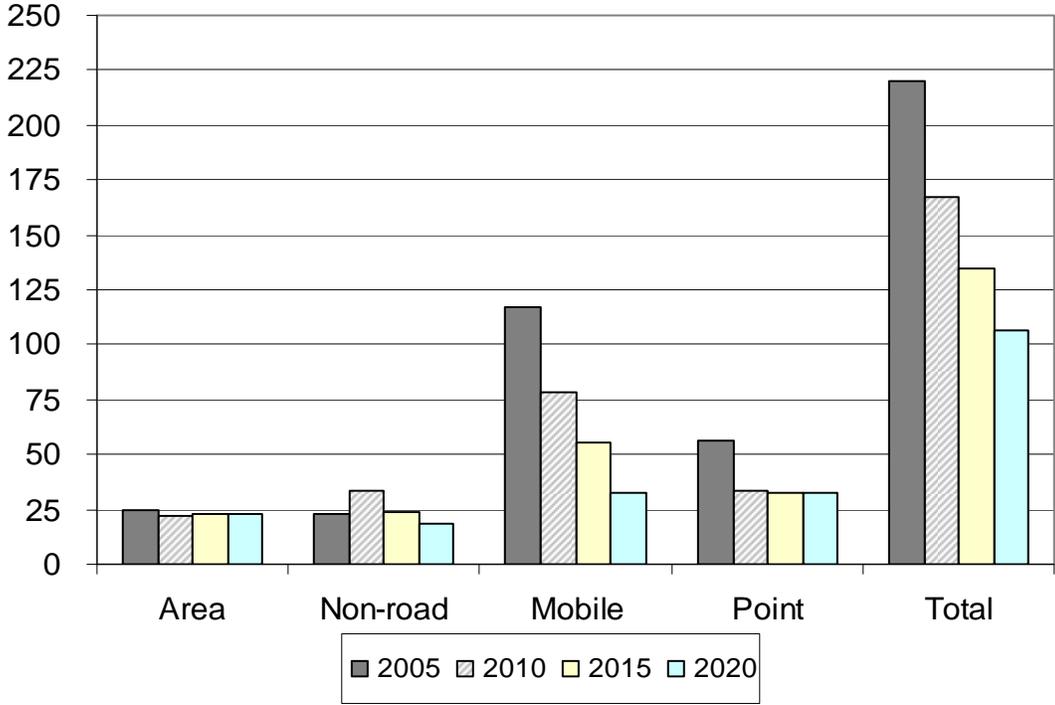


APPENDIX C

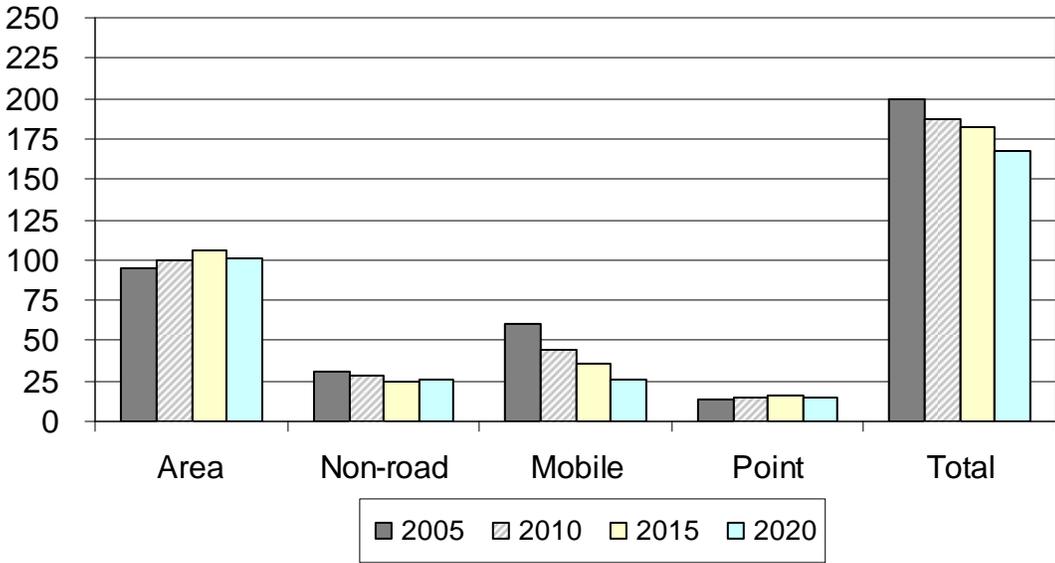
2010, 2015 and 2020 Projected Emissions Inventories

Sector	Nox 2005	Nox 2010	Nox 2015	Nox 2020
Area	24.26	22.39	23.12	22.74
Non-road	22.55	33.05	24.06	18.36
Mobile	116.74	78.40	55.42	32.45
Point	56.63	33.31	32.41	32.77
Total	220.18	167.15	135.01	106.31
Sector	VOC	VOC	VOC	VOC
Area	94.85	99.29	106.31	100.81
Non-road	30.36	28.77	24.06	25.29
Mobile	60.50	44.19	35.33	26.47
Point	13.54	14.34	16.00	14.85
Total	199.25	186.58	181.69	167.42

**NOx Tons per Summer Day
Central Indiana Area**



**VOC Tons per Summer Day
Central Indiana Area**



APPENDIX D

Public Participation Documentation

LEGAL NOTICE OF PUBLIC HEARING
Redesignation Petition and Maintenance Plan
in association with the 8 hour ozone standard,
Central Indiana Area

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, March 6, 2007. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for the Central Indiana Area. The meeting will convene at 6:00 p.m. (local time) in Indiana Government Center South, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (USEPA) guidance.

Copies of the draft documents will be available on or before February 1, 2007 to any person upon request and at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate, Room N1003, Indianapolis, Indiana.
- Office of Environmental Services, Administration Building, 2700 South Belmont Avenue, Indianapolis, Indiana.
- Danville Public Library, 101 South Indiana Street, Danville, Indiana.
- Lebanon Public Library, 104 East Washington Street, Lebanon, Indiana.
- Johnson County Public Library, 401 State Street, Franklin, Indiana.
- Morgan County Public Library, 110 South Jefferson Street, Martinsville, Indiana.
- Anderson Public Library, 111 East 12th Street, Anderson, Indiana
- Hancock County Public Library, 900 West McKenzie, Greenfield, Indiana.

- Shelbyville-Shelby County Public Library, 57 West Broadway, Shelbyville, Indiana.
- Noblesville-Southeastern Public Library, One Library Plaza, Noblesville, Indiana.

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

IDEM will also accept written comments through March 9, 2007. Mailed comments should be addressed to:

Central Indiana Area Redesignation Petition and Maintenance Plan
 Kathryn Watson, Chief
 Air Programs Branch, Office of Air Quality – Mail Code 61-50
 100 North Senate Avenue
 Indiana Department of Environmental Management
 Indianapolis, IN 46206-2251

A transcript of the hearing and all written submissions provided at the public hearing shall be open to public inspection at IDEM and copies may be made available to any person upon payment of reproduction costs. Any person heard or represented at the hearing or requesting notice shall be given written notice of actions resulting from the hearing. For additional information contact Mr. Gale Ferris, at the Indiana Department of Environmental Management, Office of Air Quality, Room 1001, Indiana Government Center North, 100 North Senate Avenue, Indianapolis or call (317) 234-3653 or (800) 451-6027 ext. 4-3653 (in Indiana).

Kathryn Watson, Chief
 Air Programs Branch
 Office of Air Quality

Individuals requiring reasonable accommodations for participation in this hearing should contact the IDEM Americans with Disabilities Act (ADA) coordinator at:

Attn: ADA Coordinator
 Indiana Department of Environmental Management – Mail Code 50-10
 100 North Senate Avenue
 Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

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LEGAL NOTICE OF PUBLIC HEARING
Redesignation Petition and Maintenance Plan
in association with the 8 hour ozone standard,
Central Indiana Area.

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, March 6, 2007. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for the Central Indiana Area. The meeting will convene at 6:00 p.m. (local time) in Indiana Government Center North, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

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- Anderson Public Library, 111 East 12th Street, Anderson, Indiana
- Hancock County Public Library, 900 West McKenzie, Greenfield, Indiana.
- Shelbyville-Shelby County Public Library, 57 West Broadway, Shelbyville, Indiana.
- Noblesville-Southeastern Public Library, One Library Plaza, Noblesville, Indiana.
- Indiana State Library, 140 North Senate Avenue, Indianapolis, Indiana.

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Kathryn Watson, Chief
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100 North Senate Avenue
Indiana Department of Environmental Management
Indianapolis, IN 46206-2251

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Air Programs Branch
Office of Air Quality

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100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

Anderson Herald Bulletin
1133 Jackson Street
Anderson, In 46016
Fax: 765-640-4815
Phone: 765-622-1212

Indianapolis Star/News
PO Box 145
Indianapolis, In 46206
Fax: 317-444-8806
Phone: 317-444-4000

The Reporter Times
PO Box 1636
Martinsville, In 46151
Attn: Pam
Fax: 765-342-1446
Phone: 765-342-3311

Shelbyville News
123 East Washington Street
Shelbyville, In 46176
Attn: Janice Bryant
Fax: 317-398-0194
Phone: 317-392-5088

Personally appeared before me, a notary public in and for said county and state, the undersigned Stacey McCullough who, being duly sworn, says that SHE is clerk of the INDIANAPOLIS NEWSPAPERS a DAILY STAR newspaper of general circulation printed and published in the English language in the city of INDIANAPOLIS in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time(s), between the dates of: 02/01/2007 and 02/01/2007

Stacey McCullough Clerk
Title

Subscribed and sworn to before me on 02/01/2007

Susan Ketchem Notary Public

My commission expires: _____



PUBLISHED 1 TIME = .339
PUBLISHED 2 TIMES = .509
PUBLISHED 3 TIMES = .679
PUBLISHED 4 TIMES = .848

LEGAL NOTICE OF PUBLIC HEARING Redesignation Petition and Maintenance Plan

In association with the 8 hour ozone standard, Central Indiana Area. Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, March 6, 2007. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for the Central Indiana Area. The meeting will convene at 6:00 p.m. (local time) in Indiana Government Center - South, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

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Kathryn Watson, Chief Air Programs Branch, Office of Air Quality - Mail Code 61-50, 100 North Senate Avenue, Indiana Department of Environmental Management, Indianapolis, IN 46204-2251

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Kathryn Watson, Chief Air Programs Branch, Office of Air Quality

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Form

PRESCRIBED FORMULA

CA COLUMN - 94 POINT
NTS / 5.7 PT. TYPE - 16.49
MS / 250 - .06596 SQUARES
SQUARES x \$5.14 - .339 CENTS PER LINE

2/4

PUBLISHER'S CLAIM

LINE COUNT

Display Matter - (Must not exceed two actual lines, neither of which shall total more than four solid lines of the type in which the body of the advertisement is set). Number of equivalent lines		\$ _____
Head - Number of lines	_____	\$ _____
Body - Number of lines	_____	\$ _____
Tail - Number of lines	_____	\$ _____
Total number of lines in notice	_____	

COMPUTATION OF CHARGES

<u>138.0</u> lines <u>1.0</u> columns wide equals <u>138.0</u> equivalent lines at <u>393</u> cents per line		\$ _____	54.23
Additional charge for notices containing rule and figure work (50 per cent of above amount)		\$ _____	
Charges for extra proofs of publication (\$1.00 for each proof in excess of two)		\$ _____	.00
TOTAL AMOUNT OF CLAIM		\$ _____	

DATA FOR COMPUTING COST

Width of single column <u>7.83</u> ems	Size of type <u>5.7</u> point	\$ _____	\$ _____
Number of insertions <u>1.0</u>		\$ _____	54.23

Pursuant to the provisions and penalties of Chapter 155, Acts of 1953, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Stacey McCullough Clerk
Title

PUBLISHER'S AFFIDAVIT

State of Indiana SS:
MARION County

Personally appeared before me, a notary public in and for said county and state, the undersigned Stacey McCullough who, being duly sworn, says that SHE is clerk of the INDIANAPOLIS NEWSPAPERS a DAILY STAR newspaper of general circulation printed and published in the English language in the city of INDIANAPOLIS in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time(s), between the dates of: 02/01/2007 and 02/01/2007

Stacey McCullough Clerk
Title

Subscribed and sworn to before me on 02/01/2007

Susan Ketchem
Notary Public

Form 65-REV 1-88

My commission expires: _____



STATE PRESCRIBED FORMULA

7.83 PICA COLUMN - 94 POINT
94 POINTS / 5.7 PT. TYPE - 16.49
16.49 EMS / 250 - .06596 SQUARES
.06596 SQUARES x \$5.14 - .339 CENTS PER LINE

PUBLISHED 1 TIME = .339
PUBLISHED 2 TIMES = .509
PUBLISHED 3 TIMES = .679
PUBLISHED 4 TIMES = .848



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Indianapolis Star/News
307 North Pennsylvania
PO Box 145
Indianapolis, Indiana 46206

Date: January 26, 2007

Phone: 317-444-4000
Fax: 317-444-8806

ATTENTION: PUBLIC NOTICES - LEGAL ADVERTISING SECTION

Enclosed please find Indiana Department of Environmental Management Public Hearing Legal Notices(s) concerning 8 Hour Ozone Redesignation Petition and Maintenance Plan for the Central Indiana area.

Please print ONE TIME, on or before February 1, 2007 in order for us to satisfy our statutory requirements.

Please send a notarized form no. 99p and/or publisher's claim, together with the clipping, showing the date of publication and your Federal ID number to:

MAIL TO:

**Attn: Sandra Robinson, Room N1001
Indiana Department of Environmental Management
Air Programs Branch, Office of Air Quality
Mail Code 61-50
Indianapolis, Indiana 46206-2251**

If you have any questions, please call me at 317-233-0427. Thank you.

Sincerely,

Sandra Robinson
Air Programs Branch
Office of Air Quality

Enclosures

**TO: ACCOUNTING
IGCN - Room 1345**

**FROM: KAROL T. CHUMA
IGCN - 1001
RULES SECTION
OFFICE OF AIR QUALITY**

DATE: 2-20-07

**Note: Please send a copy of the paid
publication to Indianapolis**

Star News

**The attached invoice for publication of
public notice is approved for payment.**

ACCOUNT # 3610/140900

by certify that the foregoing account is just that no part of the same has been paid.

Carolyn Pitts
Legal Advertising Clerk

ATTACH COPY OF ADVERTISEMENT HERE

LEGAL NOTICE OF PUBLIC HEARING
Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, Central Indiana Area.

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, March 6, 2007. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for the Central Indiana Area. The meeting will convene at 6:00 p.m. (local time) in Indiana Government Center South, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

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- Johnson County Public Library, 401 State Street, Franklin, Indiana.
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- Noblesville-Southeastern Public Library, One Library Plaza, Noblesville, Indiana.

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Kathryn Watson, Chief
Air Programs Branch, Office of Air Quality-Mail Code 61-50
100 North Senate Avenue
Indiana Department of Environmental Management
Indianapolis, IN 46206-2251

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Kathryn Watson, Chief
Air Programs Branch
Office of Air Quality

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Attn: ADA Coordinator
Indiana Department of Environmental Management - Mail Code 50-10
100 North Senate Avenue
Indianapolis, IN 46204-2251

Or call (317) 233-1785 (voice) or (317) 232-6565 (TDD). Please provide a minimum of 72 hours notification.

Indiana Department of Environmental Management
(Governmental Unit)
Madison County, Indiana

PUBLISHER'S CLAIM
HG-94

LINE COUNT

Display matter (Must not exceed two actual lines, neither of which shall total more than four solid lines of type in which the body of advertisement is set)

-number of equivalent lines
Head - number of lines
Body - number of lines
Tail - number of lines
Total number of lines in notice

COMPUTATION OF CHARGES

97 lines, columns wide equals
0 equivalent lines at 0.474 cents per line \$.....45.98
Additional charge for notices containing rule or tabular work
(50 percent of above amount)
Charge for extra proofs of publication
(\$1.00 for each proof in excess of two)
Total Amount of Claim \$.....45.98

DATA FOR COMPUTING COST

Width of single column:..... 11 ems
Number of Insertions..... 1
Size of type:..... 6 pt

Pursuant to the provisions and penalties of Chapter 155, Acts 1953, I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date: February 1, 2007

Carolyn Pitts
Legal Advertising Clerk

PUBLISHERS AFFIDAVIT

ATTACH COPY
OF ADVERTISEMENT HERE

State of Indiana)
) SS:
Madison County)

Personally appeared before me, a notary public in and for said county and state, the undersigned, Carolyn Pitts who being duly sworn, says that he/she is the legal advertising clerk of The Herald Bulletin a newspaper of general circulation printed and published in the English language in the city of Anderson in state and county aforesaid, and the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time(s), the dates of publication being as follows: February 1, 2007

Carolyn Pitts

Subscribed and sworn to before me this 1st day of Feb., 2007

Judith K. Litsley
Notary Public
~~Carole Hudson~~
Madison County

My commission expires:
~~June 28th, 2010~~
12.20.2014



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Anderson Herald Bulletin
1133 Jackson Street
Anderson, Indiana 46016

Date: January 26, 2007

Phone: 765-622-1212
Fax: 765-640-4815

ATTENTION: PUBLIC NOTICES - LEGAL ADVERTISING SECTION

Enclosed please find Indiana Department of Environmental Management Public Hearing Legal Notices(s) concerning 8 Hour Ozone Redesignation Petition and Maintenance Plan for the Central Indiana area.

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Please send a notarized form no. 99p and/or publisher's claim, together with the clipping, showing the date of publication and your Federal ID number to:

MAIL TO:

**Attn: Sandra Robinson, Room N1001
Indiana Department of Environmental Management
Air Programs Branch, Office of Air Quality
Mail Code 61-50
Indianapolis, Indiana 46206-2251**

If you have any questions, please call me at 317-233-0427. Thank you.

Sincerely,

Sandra Robinson
Air Programs Branch
Office of Air Quality

Enclosures

TO: ACCOUNTING
ICCN - Room 1345

FROM: KAROL T. CHUMA
IGCN - 1001
RULES SECTION
OFFICE OF AIR QUALITY

DATE: 3-1-07

Note: Please send a copy of the paid
publication to The Herald Bulletin
located in Anderson, IN

The attached invoice for publication of
public notice is approved for payment.

ACCOUNT # 3610/140900

81 lines, 1 column wide equals 81 equivalent lines at .453 cents per line \$36.69
 Additional charge for notices containing rule or tabular work (50 percent of above amount)
 Charge for extra proofs of publication (\$1.00 for each proof in excess of two)
 TOTAL AMOUNT OF CLAIM \$36.69

DATA FOR COMPUTING COST

Width of single column 12 1/2 ems
 Number of insertions 1
 Size of type: 6 point

Pursuant to the provisions and penalties of Chapter 155, Acts 1953,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date FEBRUARY 1, 2007

Tina Hartgrove

Title: Auditor

LEGAL NOTICE OF PUBLIC HEARING

Redesignation Petition and Maintenance Plan
 in association with the 8 hour ozone standard,
 Central Indiana Area.

Notice is hereby given under 40 CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, March 6, 2007. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8 hour ozone standard, for the Central Indiana Area. The meeting will convene at 6:00 p.m. (local time) in Indiana Government Center, South, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

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Danville Public Library, 101 South Indiana Street, Danville, Indiana.

Lebanon Public Library, 104 East Washington Street, Lebanon, Indiana.

Johnson County Public Library, 401 State Street, Franklin, Indiana.

Morgan County Public Library, 110 South Jefferson Street, Martinsville, Indiana.

Anderson Public Library, 111 East 12th Street, Anderson, Indiana.

Hancock County Public Library, 900 West McKinzie, Greenfield, Indiana.

Shelbyville-Shelby County Public Library, 57 West Broadway, Shelbyville, Indiana.

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 Kathryn Watson, Chief
 Air Programs Branch, Office of Air Quality -
 Mail Code 61-50

100 North Senate Avenue
 Indiana Department of Environmental Management
 Indianapolis, IN 46206-2251

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Kathryn Watson, Chief
 Air Programs Branch
 Office of Air Quality

PUBLISHER'S AFFIDAVIT

State of Indiana)

ss:

Shelby County

Personally appeared before me, a notary public in and for said county and state, the undersigned Tina K. Hartgrove, who, being duly sworn, says that she is Auditor of the Shelbyville News newspaper of general circulation printed and published in the English language in the city of Shelbyville in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for one _____ time(s) _____, the dates of publication being as follows:

FEBRUARY 1, 2007

Tina Hartgrove

Subscribed and sworn to before me this 1 day of FEBRUARY, 2007

Dolana L. Clements

Shelby County Resident

Notary Public:

My commission expires May 17, 2009

INDIANA DEPARTMENT OF ENVIRONMENTAL MGT.
(Governmental Unit)

2007 FEB -5 A 10: 53
IDEM FISCAL/ACCOUNTING
Shelbyville Newspaper Inc.
Federal Tax I.D. No. 61-0301090
123 E. Washington St PO Box 750
Shelbyville IN 46176-0750

PUBLISHER'S CLAIM

LINE COUNT

Display matter (Must not exceed two actual lines, neither of which shall total more than four solid lines
Of type in which the body of the advertisement is set) - number of equivalent lines

Head - number of lines	1
Body - number of lines	77
Tail - number of lines	3
Total number of lines	81

COMPUTATION OF CHARGES

81 lines, 1 columns wide equals 81 equivalent lines at .453 cents per line	\$36.69
Additional charge for notices containing rule or tabular work (50 percent of above amount)	
Charge for extra proofs of publication (\$1.00 for each proof in excess of two)	
TOTAL AMOUNT OF CLAIM	\$36.69

DATA FOR COMPUTING COST

Width of single column 12 1/2 ems
Number of insertions 1
Size of type: 6 point

Pursuant to the provisions and penalties of Chapter 155, Acts 1953,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date FEBRUARY 1, 2007

Tina Hartgrove

Title: Auditor

PUBLISHER'S AFFIDAVIT

State of Indiana)

ss:

Shelby County

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FEBRUARY 1, 2007

Tina Hartgrove

Subscribed and sworn to before me this 1 day of FEBRUARY, 2007

Delana L. Clements

Shelby County Resident
Notary Public:

My commission expires May 17, 2009



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

Shelbyville News
123 East Washington Street
Shelbyville, Indiana 46176
Attn: Janice Bryant

Date: January 26, 2007

Phone: 317-392-5088
Fax: 317-398-0194

ATTENTION: PUBLIC NOTICES - LEGAL ADVERTISING SECTION

Enclosed please find Indiana Department of Environmental Management Public Hearing Legal Notices(s) concerning 8 Hour Ozone Redesignation Petition and Maintenance Plan for the Central Indiana area.

Please print **ONE TIME**, on or before **February 1, 2007** in order for us to satisfy our statutory requirements.

Please send a notarized form no. 99p and/or publisher's claim, together with the clipping, showing the date of publication and your Federal ID number to:

MAIL TO:

**Attn: Sandra Robinson, Room N1001
Indiana Department of Environmental Management
Air Programs Branch, Office of Air Quality
Mail Code 61-50
Indianapolis, Indiana 46206-2251**

If you have any questions, please call me at 317-233-0427. Thank you.

Sincerely,

Sandra Robinson
Air Programs Branch
Office of Air Quality

Enclosures

TO: ACCOUNTING
IGCN - Room 1345

FROM: KAROL T. CHUMA
IGCN - 1001
RULES SECTION
OFFICE OF AIR QUALITY

DATE: 2-20-07

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ACCOUNT # 3610/140900

#22972242

General Form #99P (Rev 1995)

Form Prescribed by State Board of Accounts
IN Dept Environmental-Air Qual
(Governmental Unit)
Morgan County, Indiana

TO: The Martinsville Reporter
P.O. Box 1636
Martinsville, IN 46151

PUBLISHER'S CLAIM

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Total number of lines in notice: 137

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Pursuant to the provisions and penalties of Ch 155, Acts 1953.

I hereby certify that the foregoing is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of the same has been paid.

Date: 02/01/07

Leah Leahy

Title: Public Notice Mgr.

PUBLISHER'S AFFIDAVIT

State of Indiana, Monroe County) ss

Personally appeared before me, a notary public in and for said county and state, the undersigned, Leah Leahy or Sue May who, being duly sworn, says that she is Public Notice Manager for The Reporter-Times newspaper of general circulation printed and published in the English language in the city of Martinsville in state and county aforesaid, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 time(s), the dates of publication being as follows:

2/1/2007

Leah Leahy

Subscribed and sworn to before me 02/01/07

Notary Public, Morgan Co. Indiana

My Commission expires *March 2, 2008*, Notary Public

Residing in Monroe County.

My commission expires 7/23/08.

Number of insertions 1 time(s)

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LEGAL NOTICE OF PUBLIC HEARING

Redesignation Petition and Maintenance Plan in association with the 8-hour ozone standard, Central Indiana Area.

Notice is hereby given under 40-CFR 51.102 that the Indiana Department of Environmental Management (IDEM) will hold a public hearing on Tuesday, March 6, 2007. The purpose of this hearing is to receive public comment on the Draft Redesignation Petition and Maintenance Plan in association with the 8-hour ozone standard, for the Central Indiana Area. The meeting will convene at 6:00 p.m. (local time) in Indiana Government Center South, Conference Room 6, 402 West Washington Street, Indianapolis, Indiana. All interested persons are invited and will be given opportunity to express their views concerning the draft documents.

This Redesignation Petition and Maintenance Plan is being drafted and submitted consistent with United States Environmental Protection Agency (USEPA) guidance.

Copies of the draft documents will be available on or before February 1, 2007 to any person upon request and at the following locations:

- Indiana Department of Environmental Management, Office of Air Quality, Indiana Government Center North, 100 North Senate Room 2100B, Indianapolis, Indiana.
- Office of Environmental Services, Administration Building, 2700 South Belmont Avenue, Indianapolis, Indiana.
- Danville Public Library, 101 South Indiana Street, Danville, Indiana.
- Lebanon Public Library, 104 East Washington Street, Lebanon, Indiana.
- Johnson County Public Library, 401 State Street, Franklin, Indiana.
- Morgan County Public Library, 110 South Jefferson Street, Martinsville, Indiana.
- Anderson Public Library, 111 East 12th Street, Anderson, Indiana.
- Hancock County Public Library, 900 West McKenzies Greenfield, Indiana.
- Shelbyville-Shelby County Public Library, 67 West Broadway, Shelbyville, Indiana.
- Noblesville Southeastern Public Library, One Library Plaza, Noblesville, Indiana.

Oral statements will be heard, but for the accuracy of the record, statements should be submitted in writing. Written statements may be submitted to the attendant designated to receive written comments at the public hearing.

IDEM will also accept written comments through March 9, 2007. Mailed comments should be addressed to:

nalties of Ch 155, Acts 1953.

is just and correct, that the amount claimed is legally due, after allowing all just credits, and

Leah Leahy

Title: Public Notice Mgr.

PUBLISHER'S AFFIDAVIT

State of Indiana, Monroe County) ss

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2/1/2007

Leah Leahy

Subscribed and sworn to before me 02/01/07

Notary Public, Morgan Co. Indiana

My Commission expires

Shirley A. Coble, Notary Public
Residing in Monroe County.
My commission expires 7/23/08.

Central Indiana Area Redesignation Petition and Maintenance Plan

Kathryn Watson, Chief

Air Programs Branch, Office of

Air Quality, Mail Code 61-60

100 North Senate Avenue

Indiana Department of Environmental Management

Indianapolis, IN 46206-2251

A transcript of the hearing and

all written submissions provided

at the public hearing shall

be open to public inspection at

IDEM and copies may be made

available to any person upon

payment of reproduction

costs. Any person heard, or

represented at the hearing, or

requesting notice shall be eligible

in written notice of hearings or

submitting from the hearing for

additional information contact

Mr. Gale Frazee at the Indiana

Department of Environmental

Management, Office of Air

Quality, Room 1001, Indiana

Government Center North, 100

North Senate Avenue, Indian-

apolis or call (317) 254-5655 or

(800) 451-6027 ext. 4-3653 (in

Indiana).

Kathryn Watson, Chief

Air Programs Branch,

Office of Air Quality

Individuals requiring reason-

able accommodations for par-

ticipation in this hearing

should contact the IDEM

Americans with Disabilities

Act (ADA) coordinator at:

Attn: ADA Coordinator

Indiana Department of Environ-

mental Management - Mail

Code 60-20

100 North Senate Avenue

Indianapolis, IN 46204-2251.

Or call (317) 254-5655 (voice)

or (317) 252-6565 (TDD).

Please provide a minimum of

72 hours notification.

1



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We make Indiana a cleaner, healthier place to live.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
(800) 451-6027
www.IN.gov/idem

The Reporter Times
PO Box 1636
Martinsville, Indiana 46151
Attn: Pam

Date: January 26, 2007

Phone: 765-342-3311
Fax: 765-342-1446

ATTENTION: PUBLIC NOTICES - LEGAL ADVERTISING SECTION

Enclosed please find Indiana Department of Environmental Management Public Hearing Legal Notices(s) concerning 8 Hour Ozone Redesignation Petition and Maintenance Plan for the Central Indiana area.

Please print ONE TIME, on or before February 1, 2007 in order for us to satisfy our statutory requirements.

Please send a notarized form no. 99p and/or publisher's claim, together with the clipping, showing the date of publication and your Federal ID number to:

MAIL TO:

**Attn: Sandra Robinson, Room N1001
Indiana Department of Environmental Management
Air Programs Branch, Office of Air Quality
Mail Code 61-50
Indianapolis, Indiana 46206-2251**

If you have any questions, please call me at 317-233-0427. Thank you.

Sincerely,

Sandra Robinson
Air Programs Branch
Office of Air Quality

Enclosures

TO: ACCOUNTING
IGCN - Room 1345

FROM: KAROL T. CHUMA
IGCN - 1001
RULES SECTION
OFFICE OF AIR QUALITY

DATE: 2-20-07

Note: Please send a copy of the paid
publication to The Martinsville Reporter
(The Reporter Times)

The attached invoice for publication of
public notice is approved for payment.

ACCOUNT # 3610/140900

BEFORE THE INDIANA DEPARTMENT
OF ENVIRONMENTAL MANAGEMENT

RECEIVED
STATE OF INDIANA
MAR 20 2007
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR QUALITY

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PUBLIC HEARING REGARDING
REDESIGNATION PETITION AND MAINTENANCE PLAN
IN ASSOCIATION WITH THE 8 HOUR OZONE STANDARD,
CENTRAL INDIANA AREA

COPY

PROCEEDINGS

in the above-captioned matter, before Hearing
Officer Scott Deloney, taken before me, Lindy L.
Meyer, Jr., a Notary Public in and for the State
of Indiana, County of Shelby, at the Indiana
Government Center South, Conference Center,
Room 6, 402 West Washington Street, Indianapolis,
Indiana, on Tuesday, March 6, 2007 at
6:08 o'clock p.m.

William F. Daniels, RPR/CP CM d/b/a
ACCURATE REPORTING OF INDIANA
12922 Brighton Avenue
Carmel, Indiana 46032
(317) 848-0088

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APPEARANCES:

ON BEHALF OF IDEM:

Scott Deloney, Hearing Officer
Gale Ferris
Kathy Watson

ON BEHALF OF THE CITY OF INDIANAPOLIS:

Felicia Robinson
Monica Dick

- - -

6:08 o'clock p.m.
March 6, 2007

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THE HEARING OFFICER: This is a public hearing to accept comments concerning the draft Redesignation Petition and Maintenance Plan in Association with the 8-hour Ozone Standard for the Central Indiana area. The Central Indiana area includes the following counties: Boone, Hamilton, Hancock, Hendricks, Johnson, Madison, Marion, Morgan and Shelby Counties. This hearing is being held to conform to the provisions of 40 CFR Part 51 regarding public hearings for State Implementation Plan submittals.

My name is Scott Deloney. I am Chief of the Planning and Policy Section of the Indiana Department of Environmental Management's Office of Air Quality. I have been appointed to act as Hearing Officer for this public hearing. Also here from the Department of Environmental Management are Kathryn Watson and Gale Ferris, also of the Office of Air Quality.

Notice of the time and place of the hearing was given as provided by law by

1 publication in the follows newspapers: The
2 Indianapolis Star, located in Indianapolis,
3 Indiana; the Anderson Herald Bulletin, located in
4 Anderson, Indiana; the Reporter Times, located in
5 Martinsville, Indiana; and the Shelbyville News,
6 located in Shelbyville, Indiana.

7 The purpose of this public hearing is to
8 provide interested persons an opportunity to
9 offer comments to the state regarding the draft
10 8-hour Redesignation Petition and Maintenance
11 Plan for the Central Indiana Area.

12 Appearance blanks have been distributed in
13 the hearing room for all those desiring to be
14 shown appearing on the record in this cause. If
15 you have not already filled out a form, please do
16 so and indicate if you are appearing for yourself
17 or on behalf of a group or organization, and
18 identify such group or organization. Also note
19 the capacity in which you appear, such as
20 attorney, officer or authorized spokesperson.

21 Any person who is heard or represented at
22 the hearing, or who requests notice, may be given
23 written notice of the final action taken on the

1 State Implementation Plan submittal. Please
2 indicate on the appearance card if you wish to
3 receive this notification. When appearance cards
4 have been completed, they should be handed to me
5 and I will include them with the official record
6 of this proceeding.

7 Oral statements will be heard, but written
8 statements may be handed to me or mailed to me at
9 the Office of Air Quality on or before close of
10 business on Friday, March 9th, 2007. A written
11 transcript of this hearing is being made. The
12 transcript will be open for public inspection and
13 a copy of the transcript will be made available
14 to any person upon request.

15 After the conclusion of this public
16 hearing, we will prepare a written report
17 summarizing the comments received at this hearing
18 and recommending changes which may need to be
19 made to the document as a response.

20 I would like to introduce the following
21 documents into the record: The notice of public
22 hearing, and the draft 8-hour Ozone Redesignation
23 Petition and Maintenance Plan for the Central

1 Indiana Area.

2 Finally, I would like to briefly go over
3 the contents of the draft document.

4 In 1997, the United States Environmental
5 Protection Agency established a new more
6 stringent standard for ozone, referred to as the
7 8-hour ozone standard. The standard itself was
8 established .08 parts per million measured over
9 an eight-hour period.

10 Within the Guidelines On Data Handling
11 Conversions [sic] for the 8-Hour Ozone National
12 Ambient Air Quality Standard, published by the
13 United States Environmental Protection Agency in
14 December of 1998, the United States Environmental
15 Protection Agency established parts per million
16 and three significant figures as the basis for
17 computation of the eight-hour ozone
18 concentrations.

19 In accordance with this guidance, three
20 significant digits are used to determine an
21 area's design value and for conducting attainment
22 tests. Specifically, because the third decimal
23 digit is rounded, .084 parts per million is the

1 largest concentration that is less than or equal
2 to the standard of .08 parts per million.

3 Therefore, an ozone concentration equal to or
4 greater than .085 parts per million is considered
5 to be above or in violation of the standard.

6 Legal challenges to the new standard for
7 ozone resulted in delayed implementation of the
8 standard until February 2001, when the Supreme
9 Court ruled that the U.S. EPA could proceed with
10 implementation of the new standard, providing
11 that the United States Environmental Protection
12 Agency's implementation is consistent with the
13 Clean Air Act.

14 The United States Environmental Protection
15 Agency's first action in implementing the new
16 standard for ozone was to designate areas
17 throughout the country as attainment,
18 nonattainment, or unclassifiable. On April 15th,
19 2004, the United States Environmental Protection
20 Agency designated the Central Indiana area basic
21 nonattainment and subject to the new eight-hour
22 ozone requirements.

23 The Central Indiana area, as defined in

1 Sections 1.1 and 1.2 of the draft document, has
2 not previously been subject to nonattainment area
3 rulemakings. However, Marion County has been
4 subject to nonattainment area rulemakings under
5 the previous one-hour ozone standard.

6 Marion County was redesignated to
7 attainment and classified as maintenance under
8 the one-hour ozone standard in 1994 with a
9 maintenance plan horizon of 2006. The one-hour
10 ozone standard was revoked on June 15th, 2005.

11 The Central Indiana area was designated
12 nonattainment under the eight-hour ozone standard
13 based on the fact that the monitored design value
14 at all but one of the area's 12 ozone monitoring
15 sites were above the standard. These design
16 values were an average of the annual fourth
17 highest ozone values monitored at each of the
18 monitoring sites for the years 2001 through 2003.
19 The Noblesville ozone monitoring station recorded
20 the highest three-year eight-hour ozone design
21 values from 2002 through 2006, and is considered
22 the controlling monitor for the entire Central
23 Indiana area during this time frame.

1 At the conclusion of the 2006 ozone
2 season, all of the monitors located in the
3 Central Indiana area measured air quality that
4 meets the ambient air quality standards for
5 ozone. The most recent design value for the
6 Noblesville monitoring site is .079 parts per
7 million.

8 Once again, the design values are an
9 average of the annual fourth highest ozone values
10 monitored at each of the 12 monitoring sites for
11 the years 2004 through 2006. These design values
12 represent ozone concentrations that are below the
13 national ambient air quality standard, thus the
14 area is eligible to be redesignated to attainment
15 under the eight-hour ozone standard and
16 reclassified as maintenance.

17 The Indiana Department of Environmental
18 Management has prepared the draft 8-hour Ozone
19 Redesignation Petition and Maintenance Plan for
20 the Central Indiana Area in accordance with
21 United States Environmental Protection Agency
22 guidance. The draft petition outlines a
23 demonstration that the area has attained the

1 eight-hour ozone standard based on monitored
2 concentrations and that the reductions in
3 monitored concentrations are attributable to
4 permanent and enforceable reductions in precursor
5 emissions, specifically reductions in both
6 volatile organic compounds and oxides of
7 nitrogen.

8 Furthermore, the draft maintenance plan
9 outlines the following: Precursor emissions of
10 volatile organic compounds and oxides of nitrogen
11 will continue to decline into the future.

12 Due to existing and future emission
13 controls, the area's air quality is not projected
14 to worsen, and should improve further over time.

15 A commitment for all existing emission
16 controls to remain in place within the Central
17 Indiana area, and a commitment to revise the
18 plan, the maintenance plan, within eight years of
19 redesignation.

20 A commitment to adopt and expeditiously
21 implement necessary corrective actions if a
22 warning or action level response is prompted. A
23 warning level response is prompted whenever an

1 annual, one-year, fourth high monitored value of
2 .089 parts per million occurs in a single ozone
3 season, or a two-year average fourth high
4 monitored value of .085 parts per million or
5 greater occurs within the maintenance area.

6 An action level response is prompted
7 whenever a violation of the standard, that being
8 a three-year average fourth high monitored value
9 of .085 parts per million or greater, occurs
10 within the maintenance area. The maintenance
11 plan also contains a mobile source emissions
12 budget for transportation conformity purposes.

13 This concludes my comments regarding the
14 draft 8-hour Ozone Redesignation Petition and
15 Maintenance Plan for the Central Indiana Area.

16 This hearing is now open for public
17 comment. Are there any public comments? I do
18 have one comment card, and that would be Felicia
19 Robinson, representing the City of Indianapolis.

20 MS. ROBINSON: Thank you, Scott.

21 My name is Felicia Robinson. I'm the
22 Administrator of the Office of Environmental
23 Services, Department of Public Works, City of

1 Indianapolis, and I am here today to represent
2 the city, and to speak in favor of the
3 redesignation petition.

4 First of all, I would like to compliment
5 the staff of IDEM's Office of Air Quality on the
6 excellent technical work that was done to put
7 together the petition.

8 I would also like to applaud the
9 collaborative manner in which, over the past
10 couple of years, folks from industry, citizens,
11 local government and other regulators have come
12 together to discuss air quality and to discuss
13 potential maintenance and attainment measures
14 that could be used by the Central Indiana area to
15 improve air quality in our area.

16 The city would like to congratulate the
17 citizens of Central Indiana and note that it is
18 only the work of the Federal Government, the
19 state government, local governments, all of our
20 citizens, and our industries working together
21 every day to improve air quality that have made
22 this petition for redesignation possible.

23 The City of Indianapolis will continue to

1 work with the State of Indiana and the Federal
2 Government, through our no-zone program, as well
3 as in other ways, to collaborate with all of our
4 partners in clean air, and to continue to make
5 the air in Central Indiana healthier and more
6 pollution free.

7 THE HEARING OFFICER: Thank you,
8 Felicia.

9 Are there any other public comments this
10 evening?

11 (No response.)

12 THE HEARING OFFICER: In the absence
13 of further comments, these proceedings are hereby
14 concluded and this hearing is adjourned.

15 Thank you.

16 - - -
17 Thereupon, the proceedings of
18 March 6, 2007 were concluded
19 at 6:21 o'clock p.m.
20 - - -

21

22

23

1 CERTIFICATE

2 I, Lindy L. Meyer, Jr., the undersigned
3 Court Reporter and Notary Public residing in the
4 City of Shelbyville, Shelby County, Indiana, do
5 hereby certify that the foregoing is a true and
6 correct transcript of the proceedings taken by me
7 on Tuesday, March 6, 2007 in this matter and
8 transcribed by me.

9
10 

11 Lindy L. Meyer, Jr.,

12 Notary Public in and
13 for the State of Indiana.

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15 My Commission expires October 27, 2008.
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<p>079 [1] - 9:6 08 [2] - 6:8, 7:2 084 [1] - 6:23 085 [3] - 7:4, 11:4, 11:9 089 [1] - 11:2</p>	<p>above-captioned [1] - 1:11 absence [1] - 13:12 accept [1] - 3:4 accordance [2] - 6:19, 9:20 ACCURATE [1] - 1:21 Act [1] - 7:13 act [1] - 3:17 action [4] - 4:23, 7:15, 10:22, 11:6 actions [1] - 10:21 adjourned [1] - 13:14 Administrator [1] - 11:22 adopt [1] - 10:20 Agency [5] - 6:5, 6:13, 6:15, 7:20, 9:21 Agency's [2] - 7:12, 7:15 Air [6] - 3:17, 3:21, 5:9, 6:12, 7:13, 12:5 air [9] - 9:3, 9:4, 9:13, 10:13, 12:12, 12:15, 12:21, 13:4, 13:5 Ambient [1] - 6:12 ambient [2] - 9:4, 9:13 AND [1] - 1:5 Anderson [2] - 4:3, 4:4 annual [3] - 8:16, 9:9, 11:1 appear [1] - 4:19 appearance [2] - 5:2, 5:3 Appearance [1] - 4:12 APPEARANCES [1] - 2:1 appearing [2] - 4:14, 4:16 applaud [1] - 12:8 appointed [1] - 3:17 April [1] - 7:18 area [16] - 3:7, 3:8, 7:20, 7:23, 8:2, 8:4, 8:11, 8:23, 9:3, 9:14, 9:23, 10:17, 11:5, 11:10, 12:14, 12:15 Area [4] - 4:11, 6:1, 9:20, 11:15 AREA [1] - 1:6 area's [3] - 6:21, 8:14, 10:13 areas [1] - 7:16 Association [1] - 3:6 ASSOCIATION [1] - 1:6 attained [1] - 9:23 attainment [5] - 6:21, 7:17, 8:7, 9:14, 12:13 attorney [1] - 4:20 attributable [1] - 10:3 authorized [1] - 4:20 available [1] - 5:13 Avenue [1] - 1:22 average [4] - 8:16, 9:9, 11:3, 11:8</p>	<p>based [2] - 8:13, 10:1 basic [1] - 7:20 basis [1] - 6:16 BEFORE [1] - 1:1 BEHALF [2] - 2:2, 2:7 behalf [1] - 4:17 below [1] - 9:12 blanks [1] - 4:12 Boone [1] - 3:8 briefly [1] - 6:2 Brighton [1] - 1:22 budget [1] - 11:12 Bulletin [1] - 4:3 business [1] - 5:10</p>	<p>concentration [2] - 7:1, 7:3 concentrations [4] - 6:18, 9:12, 10:2, 10:3 concerning [1] - 3:4 concluded [2] - 13:14, 13:17 concludes [1] - 11:13 conclusion [2] - 5:15, 9:1 conducting [1] - 6:21 Conference [1] - 1:15 conform [1] - 3:11 conformity [1] - 11:12 congratulate [1] - 12:16 considered [2] - 7:4, 8:21 consistent [1] - 7:12 contains [1] - 11:11 contents [1] - 6:3 continue [3] - 10:11, 12:23, 13:4 controlling [1] - 8:22 controls [2] - 10:13, 10:16 Conversions [1] - 6:11 copy [1] - 5:13 correct [1] - 14:6 corrective [1] - 10:21 counties [1] - 3:8 Counties [1] - 3:10 country [1] - 7:17 County [4] - 1:14, 8:3, 8:6, 14:4 couple [1] - 12:10 Court [2] - 7:9, 14:3</p>
1			
<p>1.1 [1] - 8:1 1.2 [1] - 8:1 12 [2] - 8:14, 9:10 12922 [1] - 1:22 15th [2] - 7:18, 8:10 1994 [1] - 8:8 1997 [1] - 6:4 1998 [1] - 6:14</p>			
2			
<p>2001 [2] - 7:8, 8:18 2002 [1] - 8:21 2003 [1] - 8:18 2004 [2] - 7:19, 9:11 2005 [1] - 8:10 2006 [4] - 8:9, 8:21, 9:1, 9:11 2007 [5] - 1:17, 3:1, 5:10, 13:17, 14:7 2008 [1] - 14:15 27 [1] - 14:15</p>			
3			
317 [1] - 1:23			
4			
<p>40 [1] - 3:12 402 [1] - 1:16 46032 [1] - 1:22</p>			
5			
51 [1] - 3:12			
6			
<p>6 [5] - 1:16, 1:17, 3:1, 13:17, 14:7 6:08 [2] - 1:18, 3:1 6:21 [1] - 13:17</p>			
8			
<p>8 [1] - 1:6 8-hour [7] - 3:6, 4:10, 5:22, 6:7, 6:11, 9:18, 11:14 848-0088 [1] - 1:23</p>			
9			
9th [1] - 5:10			
		C	
		<p>capacity [1] - 4:19 captioned [1] - 1:11 card [2] - 5:2, 11:18 cards [1] - 5:3 Carmel [1] - 1:22 Center [2] - 1:15 Central [15] - 3:7, 4:11, 5:23, 7:20, 7:23, 8:11, 8:22, 9:3, 9:20, 10:16, 11:15, 12:14, 12:17, 13:5 CENTRAL [1] - 1:6 CERTIFICATE [1] - 14:1 certify [1] - 14:5 CFR [1] - 3:12 challenges [1] - 7:6 changes [1] - 5:18 Chief [1] - 3:14 citizens [3] - 12:10, 12:17, 12:20 CITY [1] - 2:7 City [4] - 11:19, 11:23, 12:23, 14:4 city [2] - 12:2, 12:16 classified [1] - 8:7 Clean [1] - 7:13 clean [1] - 13:4 close [1] - 5:9 CM [1] - 1:21 collaborate [1] - 13:3 collaborative [1] - 12:9 comment [2] - 11:17, 11:18 comments [7] - 3:4, 4:9, 5:17, 11:13, 11:17, 13:9, 13:13 Commission [1] - 14:15 commitment [3] - 10:15, 10:17, 10:20 completed [1] - 5:4 compliment [1] - 12:4 compounds [2] - 10:6, 10:10 computation [1] - 6:17</p>	
			D
			<p>d/b/a [1] - 1:21 Daniels [1] - 1:21 Data [1] - 6:10 December [1] - 6:14 decimal [1] - 6:22 decline [1] - 10:11 defined [1] - 7:23 delayed [1] - 7:7 Deloney [3] - 1:12, 2:3, 3:14 demonstration [1] - 9:23 Department [4] - 3:16, 3:19, 9:17, 11:23 DEPARTMENT [1] - 1:1 design [7] - 6:21, 8:13, 8:15, 8:20, 9:5, 9:8, 9:11 designate [1] - 7:16 designated [2] - 7:20, 8:11 desiring [1] - 4:13 determine [1] - 6:20 Dick [1] - 2:9 digit [1] - 6:23 digits [1] - 6:20 discuss [2] - 12:12 distributed [1] - 4:12 document [3] - 5:19, 6:3, 8:1 documents [1] - 5:21</p>

done [1] - 12:6
draft [9] - 3:5, 4:9, 5:22, 6:3, 8:1, 9:18, 9:22, 10:8, 11:14
Due [1] - 10:12
during [1] - 8:23

E

eight [8] - 6:9, 6:17, 7:21, 8:12, 8:20, 9:15, 10:1, 10:18
eight-hour [7] - 6:9, 6:17, 7:21, 8:12, 8:20, 9:15, 10:1
eligible [1] - 9:14
emission [2] - 10:12, 10:15
emissions [3] - 10:5, 10:9, 11:11
enforceable [1] - 10:4
entire [1] - 8:22
ENVIRONMENTAL [1] - 1:1
Environmental [11] - 3:16, 3:19, 6:4, 6:13, 6:14, 7:11, 7:14, 7:19, 9:17, 9:21, 11:22
EPA [1] - 7:9
equal [2] - 7:1, 7:3
established [3] - 6:5, 6:8, 6:15
evening [1] - 13:10
excellent [1] - 12:6
existing [2] - 10:12, 10:15
expeditiously [1] - 10:20
expires [1] - 14:15

F

fact [1] - 8:13
favor [1] - 12:2
February [1] - 7:8
Federal [2] - 12:18, 13:1
Felicia [4] - 2:8, 11:18, 11:21, 13:8
Ferris [2] - 2:4, 3:20
figures [1] - 6:16
filled [1] - 4:15
final [1] - 4:23
Finally [1] - 6:2
First [1] - 12:4
first [1] - 7:15
folks [1] - 12:10
following [3] - 3:8, 5:20, 10:9
follows [1] - 4:1
foregoing [1] - 14:5
form [1] - 4:15
fourth [5] - 8:16, 9:9, 11:1, 11:3, 11:8
frame [1] - 8:23
free [1] - 13:6
Friday [1] - 5:10
Furthermore [1] - 10:8
future [2] - 10:11, 10:12

G

Gale [2] - 2:4, 3:20
given [2] - 3:23, 4:22
government [2] - 12:11, 12:19
Government [3] - 1:15, 12:18, 13:2
governments [1] - 12:19
greater [3] - 7:4, 11:5, 11:9
group [2] - 4:17, 4:18
guidance [2] - 6:19, 9:22
Guidelines [1] - 6:10

H

Hamilton [1] - 3:9
Hancock [1] - 3:9
handed [2] - 5:4, 5:8
Handling [1] - 6:10
healthier [1] - 13:5
heard [2] - 4:21, 5:7
hearing [13] - 3:4, 3:10, 3:18, 3:23, 4:7, 4:13, 4:22, 5:11, 5:16, 5:17, 5:22, 11:16, 13:14
HEARING [4] - 1:5, 3:3, 13:7, 13:12
Hearing [3] - 1:11, 2:3, 3:18
hearings [1] - 3:12
held [1] - 3:11
Hendricks [1] - 3:9
Herald [1] - 4:3
hereby [2] - 13:13, 14:5
high [3] - 11:1, 11:3, 11:8
highest [3] - 8:17, 8:20, 9:9
horizon [1] - 8:9
hour [10] - 6:9, 6:17, 7:21, 8:5, 8:8, 8:9, 8:12, 8:20, 9:15, 10:1
HOOR [1] - 1:6

I

IDEM [1] - 2:2
IDEM's [1] - 12:5
identify [1] - 4:18
implement [1] - 10:21
Implementation [2] - 3:13, 5:1
implementation [3] - 7:7, 7:10, 7:12
implementing [1] - 7:15
improve [3] - 10:14, 12:15, 12:21
IN [1] - 1:6
include [1] - 5:5
includes [1] - 3:8
INDIANA [3] - 1:1, 1:6, 1:21
Indiana [23] - 1:14, 1:17, 1:22, 3:7, 3:15, 4:3, 4:4,

4:5, 4:6, 4:11, 6:1, 7:20, 7:23, 8:11, 8:23, 9:3, 9:17, 9:20, 10:17, 11:15, 12:14, 12:17, 13:1, 13:5, 14:4, 14:13
INDIANAPOLIS [1] - 2:7
Indianapolis [6] - 1:16, 4:2, 11:19, 12:1, 12:23
indicate [2] - 4:16, 5:2
industries [1] - 12:20
industry [1] - 12:10
inspection [1] - 5:12
interested [1] - 4:8
introduce [1] - 5:20
itself [1] - 6:7

J

Johnson [1] - 3:9
Jr [3] - 1:13, 14:2, 14:11
June [1] - 8:10

K

Kathryn [1] - 3:20
Kathy [1] - 2:5

L

largest [1] - 7:1
law [1] - 3:23
Legal [1] - 7:6
less [1] - 7:1
level [3] - 10:22, 10:23, 11:6
Lindy [3] - 1:12, 14:2, 14:11
local [2] - 12:11, 12:19
located [5] - 4:2, 4:3, 4:4, 4:6, 9:2

M

Madison [1] - 3:9
mailed [1] - 5:8
maintenance [9] - 8:7, 8:9, 9:16, 10:8, 10:18, 11:5, 11:10, 12:13
MAINTENANCE [1] - 1:5
Maintenance [5] - 3:5, 4:10, 5:23, 9:19, 11:15
Management [2] - 3:20, 9:18
MANAGEMENT [1] - 1:1
Management's [1] - 3:16
manner [1] - 12:9
March [5] - 1:17, 3:1, 5:10, 13:17, 14:7
Marion [3] - 3:10, 8:3, 8:6
Martinsville [1] - 4:5
matter [2] - 1:11, 14:7
measured [2] - 6:8, 9:3
measures [1] - 12:13
meets [1] - 9:4
Meyer [3] - 1:13, 14:2, 14:11

million [9] - 6:8, 6:15, 6:23, 7:2, 7:4, 9:7, 11:2, 11:4, 11:9
mobile [1] - 11:11
Monica [1] - 2:9
monitor [1] - 8:22
monitored [8] - 8:13, 8:17, 9:10, 10:1, 10:3, 11:1, 11:4, 11:8
monitoring [5] - 8:14, 8:18, 8:19, 9:6, 9:10
monitors [1] - 9:2
Morgan [1] - 3:10
most [1] - 9:5
MS [1] - 11:20

N

name [2] - 3:14, 11:21
National [1] - 6:11
national [1] - 9:13
necessary [1] - 10:21
need [1] - 5:18
new [5] - 6:5, 7:6, 7:10, 7:15, 7:21
News [1] - 4:5
newspapers [1] - 4:1
nitrogen [2] - 10:7, 10:10
no-zone [1] - 13:2
Noblesville [2] - 8:19, 9:6
nonattainment [5] - 7:18, 7:21, 8:2, 8:4, 8:12
Notary [3] - 1:13, 14:3, 14:12
note [2] - 4:18, 12:17
notice [3] - 4:22, 4:23, 5:21
Notice [1] - 3:22
notification [1] - 5:3

O

o'clock [3] - 1:18, 3:1, 13:17
occurs [3] - 11:2, 11:5, 11:9
October [1] - 14:15
OF [5] - 1:1, 1:21, 2:2, 2:7
offer [1] - 4:9
Office [5] - 3:16, 3:21, 5:9, 11:22, 12:5
OFFICER [3] - 3:3, 13:7, 13:12
Officer [3] - 1:12, 2:3, 3:18
officer [1] - 4:20
official [1] - 5:5
ON [2] - 2:2, 2:7
Once [1] - 9:8
one [6] - 8:5, 8:8, 8:9, 8:14, 11:1, 11:18
one-hour [3] - 8:5, 8:8, 8:9
one-year [1] - 11:1
open [2] - 5:12, 11:16
opportunity [1] - 4:8
Oral [1] - 5:7

<p>organic [2] - 10:6, 10:10 organization [2] - 4:17, 4:18 outlines [2] - 9:22, 10:9 oxides [2] - 10:6, 10:10 OZONE [1] - 1:6 ozone [22] - 6:6, 6:7, 6:17, 7:3, 7:7, 7:16, 7:22, 8:5, 8:8, 8:10, 8:12, 8:14, 8:17, 8:19, 8:20, 9:1, 9:5, 9:9, 9:12, 9:15, 10:1, 11:2 Ozone [5] - 3:6, 5:22, 6:11, 9:18, 11:14</p>	<p>6:15, 7:11, 7:14, 7:19, 9:21 provide [1] - 4:8 provided [1] - 3:23 providing [1] - 7:10 provisions [1] - 3:11 PUBLIC [1] - 1:5 public [10] - 3:4, 3:12, 3:18, 4:7, 5:12, 5:15, 5:21, 11:16, 11:17, 13:9 Public [4] - 1:13, 11:23, 14:3, 14:12 publication [1] - 4:1 published [1] - 6:12 purpose [1] - 4:7 purposes [1] - 11:12 put [1] - 12:6</p>	<p>revoked [1] - 8:10 Robinson [3] - 2:8, 11:19, 11:21 ROBINSON [1] - 11:20 room [1] - 4:13 Room [1] - 1:16 rounded [1] - 6:23 RPR/CP [1] - 1:21 ruled [1] - 7:9 rulemakings [2] - 8:3, 8:4</p>	<p>tests [1] - 6:22 THE [6] - 1:1, 1:6, 2:7, 3:3, 13:7, 13:12 Therefore [1] - 7:3 Thereupon [1] - 13:16 third [1] - 6:22 three [4] - 6:16, 6:19, 8:20, 11:8 three-year [2] - 8:20, 11:8 throughout [1] - 7:17 today [1] - 12:1 together [3] - 12:7, 12:12, 12:20 transcribed [1] - 14:8 transcript [4] - 5:11, 5:12, 5:13, 14:6 transportation [1] - 11:12 true [1] - 14:5 Tuesday [2] - 1:17, 14:7 two [1] - 11:3 two-year [1] - 11:3</p>
<p>P</p>	<p>Q</p>	<p>S</p>	<p>U</p>
<p>p.m [3] - 1:18, 3:1, 13:17 Part [1] - 3:12 partners [1] - 13:4 parts [9] - 6:8, 6:15, 6:23, 7:2, 7:4, 9:6, 11:2, 11:4, 11:9 past [1] - 12:9 per [9] - 6:8, 6:15, 6:23, 7:2, 7:4, 9:6, 11:2, 11:4, 11:9 period [1] - 6:9 permanant [1] - 10:4 person [2] - 4:21, 5:14 persons [1] - 4:8 PETITION [1] - 1:5 petition [4] - 9:22, 12:3, 12:7, 12:22 Petition [5] - 3:5, 4:10, 5:23, 9:19, 11:14 place [2] - 3:22, 10:16 PLAN [1] - 1:5 Plan [7] - 3:5, 3:13, 4:11, 5:1, 5:23, 9:19, 11:15 plan [5] - 8:9, 10:8, 10:18, 11:11 Planning [1] - 3:15 Policy [1] - 3:15 pollution [1] - 13:6 possible [1] - 12:22 potential [1] - 12:13 precursor [1] - 10:4 Precursor [1] - 10:9 prepare [1] - 5:16 prepared [1] - 9:18 previous [1] - 8:5 previously [1] - 8:2 proceed [1] - 7:9 proceeding [1] - 5:6 PROCEEDINGS [1] - 1:10 proceedings [3] - 13:13, 13:16, 14:6 program [1] - 13:2 projected [1] - 10:13 prompted [3] - 10:22, 10:23, 11:6 Protection [7] - 6:5, 6:13,</p>	<p>quality [7] - 9:3, 9:4, 9:13, 10:13, 12:12, 12:15, 12:21 Quality [5] - 3:17, 3:21, 5:9, 6:12, 12:5</p>	<p>Scott [4] - 1:12, 2:3, 3:14, 11:20 season [2] - 9:2, 11:3 Section [1] - 3:15 Sections [1] - 8:1 Services [1] - 11:23 Shelby [3] - 1:14, 3:10, 14:4 Shelbyville [3] - 4:5, 4:6, 14:4 shown [1] - 4:14 sic [1] - 6:11 significant [2] - 6:16, 6:20 single [1] - 11:2 site [1] - 9:6 sites [3] - 8:15, 8:18, 9:10 source [1] - 11:11 South [1] - 1:15 Specifically [1] - 6:22 specifically [1] - 10:5 spokesperson [1] - 4:20 staff [1] - 12:5 STANDARD [1] - 1:6 Standard [2] - 3:6, 6:12 standard [18] - 6:6, 6:7, 7:2, 7:5, 7:6, 7:8, 7:10, 7:16, 8:5, 8:8, 8:10, 8:12, 8:15, 9:13, 9:15, 10:1, 11:7 standards [1] - 9:4 Star [1] - 4:2 State [5] - 1:13, 3:13, 5:1, 13:1, 14:13 state [2] - 4:9, 12:19 statements [2] - 5:7, 5:8 States [7] - 6:4, 6:13, 6:14, 7:11, 7:14, 7:19, 9:21 station [1] - 8:19 Street [1] - 1:16 stringent [1] - 6:6 subject [3] - 7:21, 8:2, 8:4 submittal [1] - 5:1 submittals [1] - 3:13 summarizing [1] - 5:17 Supreme [1] - 7:8</p>	<p>U.S [1] - 7:9 unclassifiable [1] - 7:18 under [4] - 8:4, 8:7, 8:12, 9:15 undersigned [1] - 14:2 United [7] - 6:4, 6:13, 6:14, 7:11, 7:14, 7:19, 9:21</p>
<p>T</p>	<p>R</p>	<p>T</p>	<p>V</p>
<p>T</p>	<p>receive [1] - 5:3 received [1] - 5:17 recent [1] - 9:5 reclassified [1] - 9:16 recommending [1] - 5:18 record [3] - 4:14, 5:5, 5:21 recorded [1] - 8:19 redesignated [2] - 8:6, 9:14 REDESIGNATION [1] - 1:5 redesignation [3] - 10:19, 12:3, 12:22 Redesignation [5] - 3:5, 4:10, 5:22, 9:19, 11:14 reductions [3] - 10:2, 10:4, 10:5 referred [1] - 6:6 REGARDING [1] - 1:5 regarding [3] - 3:12, 4:9, 11:13 regulators [1] - 12:11 remain [1] - 10:16 report [1] - 5:16 Reporter [2] - 4:4, 14:3 REPORTING [1] - 1:21 represent [2] - 9:12, 12:1 represented [1] - 4:21 representing [1] - 11:19 request [1] - 5:14 requests [1] - 4:22 requirements [1] - 7:22 residing [1] - 14:3 response [5] - 5:19, 10:22, 10:23, 11:6, 13:11 resulted [1] - 7:7 revise [1] - 10:17</p>	<p>value [6] - 6:21, 8:13, 9:5, 11:1, 11:4, 11:8 values [6] - 8:16, 8:17, 8:21, 9:8, 9:9, 9:11 violation [2] - 7:5, 11:7 volatile [2] - 10:6, 10:10</p>	
<p>T</p>	<p>T</p>	<p>T</p>	<p>W</p>
<p>T</p>	<p>T</p>	<p>T</p>	<p>warning [2] - 10:22, 10:23 Washington [1] - 1:16 Watson [2] - 2:5, 3:20 ways [1] - 13:3 West [1] - 1:16 William [1] - 1:21 wish [1] - 5:2 WITH [1] - 1:6 Works [1] - 11:23 worsen [1] - 10:14 written [4] - 4:23, 5:7, 5:10, 5:16</p>
<p>T</p>	<p>T</p>	<p>T</p>	<p>Y</p>
<p>T</p>	<p>T</p>	<p>T</p>	<p>year [4] - 8:20, 11:1, 11:3, 11:8 years [4] - 8:18, 9:11, 10:18, 12:10</p>

yourself [1] - 4:16
Z
zone [1] - 13:2

APPENDIX E

Mobile Input/Output and Calculation Files, Central Indiana Area

Mobile Input/Output and Calculation Files Attached

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MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2006 July

RUN DATA

NO REFUELING :
EXPRESS HC AS VOC :
MIN/MAX TEMP : 65.5 85.5
ABSOLUTE HUMIDITY : 87.3
CLOUD COVER : 0.34
SUNRISE/SUNSET : 6 8
REG DIST : c:\I98\m6\IN_grp3.d
FUEL RVP : 9.0

SCENARIO RECORD : ~ 3.0 NON-RAMP
AVERAGE SPEED : 3.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~ 5.0 NON-RAMP
AVERAGE SPEED : 5.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~10.0 NON-RAMP
AVERAGE SPEED : 10.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~15.0 NON-RAMP
AVERAGE SPEED : 15.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~20.0 NON-RAMP
AVERAGE SPEED : 20.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~25.0 NON-RAMP
AVERAGE SPEED : 25.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~30.0 NON-RAMP
AVERAGE SPEED : 30.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~35.0 NON-RAMP
AVERAGE SPEED : 35.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~40.0 NON-RAMP
AVERAGE SPEED : 40.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~45.0 NON-RAMP

AVERAGE SPEED : 45.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~50.0 NON-RAMP
AVERAGE SPEED : 50.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~55.0 NON-RAMP
AVERAGE SPEED : 55.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~60.0 NON-RAMP
AVERAGE SPEED : 60.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~65.0 NON-RAMP
AVERAGE SPEED : 65.0 NON-RAMP
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~ 3.0 ARTERIAL
AVERAGE SPEED : 3.0 ARTERIAL
CALENDAR YEAR : 2006

EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~ 5.0 ARTERIAL
AVERAGE SPEED : 5.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~10.0 ARTERIAL
AVERAGE SPEED : 10.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~15.0 ARTERIAL
AVERAGE SPEED : 15.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~20.0 ARTERIAL
AVERAGE SPEED : 20.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~25.0 ARTERIAL
AVERAGE SPEED : 25.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7

PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~30.0 ARTERIAL
AVERAGE SPEED : 30.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~35.0 ARTERIAL
AVERAGE SPEED : 35.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~40.0 ARTERIAL
AVERAGE SPEED : 40.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~45.0 ARTERIAL
AVERAGE SPEED : 45.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~50.0 ARTERIAL
AVERAGE SPEED : 50.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7

PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~55.0 ARTERIAL
AVERAGE SPEED : 55.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~60.0 ARTERIAL
AVERAGE SPEED : 60.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~65.0 ARTERIAL
AVERAGE SPEED : 65.0 ARTERIAL
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\fvmt.def
CALENDAR YEAR : 2006
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\rmpvmt.def
CALENDAR YEAR : 2006
EVALUATION MONTH : 7

PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

END OF RUN

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
 EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
 - RUN TIME: 08:00:31 29NOV06

EMISSIONS IN KILOGRAMS PER DAY
 +++ ALTERNATIVE IS:06A
 MOBILE6 INPUT FILE :

 Marion County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	200.	3240.	558.	9.	23.
OTH. PRINC. ART. (2)	50.	396.	55.	1.	2.
MINOR ARTERIAL (6)	159.	1730.	259.	5.	14.
CENCON & INTRAS (9)	16.	120.	19.	0.	1.
SUBTOTAL	424.	5485.	892.	16.	41.
-----URBAN-----					
INTERSTATE (11)	8876.	128207.	21030.	383.	990.
OTH. FWY & XWAY (12)	543.	6608.	996.	22.	56.
OTH. PRINC. ART. (14)	6028.	68862.	10359.	229.	591.
MINOR ARTERIAL (16)	5953.	67705.	10231.	229.	591.
CENCON & INTRAS (19)	3002.	22168.	3435.	72.	186.
SUBTOTAL	24402.	293550.	46051.	933.	2415.
---TOTAL---	24827.	299035.	46943.	949.	2455.
(TONS)	27.34	329.33	51.70	1.05	2.70

DAILY TRAVEL STATS

 Marion County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	253483.	4302.	58.92
OTH. PRINC. ART. (2)	25370.	2520.	10.07
MINOR ARTERIAL (6)	152244.	5622.	27.08
CENCON & INTRAS (9)	10886.	544.	20.00
SUBTOTAL	441983.	12988.	34.03
-----URBAN-----			
INTERSTATE (11)	10720365.	216317.	49.56
OTH. FWY & XWAY (12)	604267.	15730.	38.42
OTH. PRINC. ART. (14)	6400923.	189060.	33.86
MINOR ARTERIAL (16)	6398612.	182991.	34.97
CENCON & INTRAS (19)	2011096.	134022.	15.01
SUBTOTAL	26135224.	738120.	35.41
TOTAL	26577216.	751108.	35.38

Hamilton County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	319.	4893.	812.	14.	37.
OTH. PRINC. ART. (2)	674.	8825.	1316.	28.	73.
MINOR ARTERIAL (6)	205.	2461.	368.	8.	21.
CENCON & INTRAS (9)	331.	2442.	378.	8.	20.
SUBTOTAL	1529.	18621.	2875.	58.	151.
-----URBAN-----					
INTERSTATE (11)	577.	7827.	1264.	24.	63.
OTH. FWY & XWAY (12)	856.	9909.	1494.	33.	85.
OTH. PRINC. ART. (14)	882.	10379.	1579.	34.	88.
MINOR ARTERIAL (16)	1107.	12870.	1939.	43.	112.
CENCON & INTRAS (19)	783.	5779.	895.	19.	48.
SUBTOTAL	4205.	46764.	7171.	153.	396.
---TOTAL---	5734.	65385.	10045.	212.	547.
(TONS)	6.32	72.01	11.06	0.23	0.60

DAILY TRAVEL STATS

Hamilton County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	398585.	7085.	56.25
OTH. PRINC. ART. (2)	787588.	17368.	45.35
MINOR ARTERIAL (6)	229793.	5777.	39.78
CENCON & INTRAS (9)	221518.	11076.	20.00
SUBTOTAL	1637484.	41307.	39.64
-----URBAN-----			
INTERSTATE (11)	683606.	14593.	46.84
OTH. FWY & XWAY (12)	917158.	26397.	34.74
OTH. PRINC. ART. (14)	952222.	26879.	35.43
MINOR ARTERIAL (16)	1208025.	33172.	36.42
CENCON & INTRAS (19)	524234.	34374.	15.25
SUBTOTAL	4285242.	135415.	31.65
TOTAL	5922722.	176722.	33.51

Johnson County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	520.	8224.	1392.	23.	61.
OTH. PRINC. ART. (2)	587.	7991.	1209.	25.	64.
MINOR ARTERIAL (6)	122.	1692.	257.	5.	13.
CENCON & INTRAS (9)	309.	2282.	354.	7.	19.
SUBTOTAL	1538.	20189.	3212.	61.	158.
-----URBAN-----					
INTERSTATE (11)	335.	5320.	905.	15.	39.
OTH. FWY & XWAY (12)	88.	1328.	207.	4.	10.
OTH. PRINC. ART. (14)	468.	5855.	876.	19.	49.
MINOR ARTERIAL (16)	373.	4474.	673.	15.	39.
CENCON & INTRAS (19)	379.	2797.	433.	9.	23.
SUBTOTAL	1643.	19774.	3094.	62.	160.
----TOTAL---- (TONS)	3182. 3.50	39963. 44.01	6306. 6.94	123. 0.14	318. 0.35

DAILY TRAVEL STATS

Johnson County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	656412.	11232.	58.44
OTH. PRINC. ART. (2)	696927.	14660.	47.54
MINOR ARTERIAL (6)	145934.	3001.	48.63
CENCON & INTRAS (9)	207006.	10350.	20.00
SUBTOTAL	1706280.	39243.	43.48
-----URBAN-----			
INTERSTATE (11)	423085.	7197.	58.79
OTH. FWY & XWAY (12)	109129.	1971.	55.36
OTH. PRINC. ART. (14)	533797.	12781.	41.76
MINOR ARTERIAL (16)	417111.	10678.	39.06
CENCON & INTRAS (19)	253726.	16915.	15.00
SUBTOTAL	1736848.	49543.	35.06
TOTAL	3443129.	88786.	38.78

Hendricks County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	503.	8307.	1459.	23.	59.
OTH. PRINC. ART. (2)	476.	6224.	930.	20.	51.
MINOR ARTERIAL (6)	50.	608.	91.	2.	5.
CENCON & INTRAS (9)	281.	2075.	322.	7.	17.
SUBTOTAL	1310.	17215.	2801.	52.	133.
-----URBAN-----					
INTERSTATE (11)	322.	5294.	924.	15.	38.
OTH. PRINC. ART. (14)	551.	6796.	1018.	22.	58.
MINOR ARTERIAL (16)	277.	3324.	498.	11.	29.
CENCON & INTRAS (19)	245.	1809.	280.	6.	15.
SUBTOTAL	1395.	17224.	2720.	54.	139.
---TOTAL---	2705.	34439.	5520.	105.	273.
(TONS)	2.98	37.93	6.08	0.12	0.30

DAILY TRAVEL STATS

Hendricks County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	642917.	10412.	61.75
OTH. PRINC. ART. (2)	555676.	12329.	45.07
MINOR ARTERIAL (6)	56614.	1412.	40.08
CENCON & INTRAS (9)	188286.	9414.	20.00
SUBTOTAL	1443493.	33568.	43.00
-----URBAN-----			
INTERSTATE (11)	411334.	6709.	61.31
OTH. PRINC. ART. (14)	623862.	15311.	40.75
MINOR ARTERIAL (16)	310015.	7829.	39.60
CENCON & INTRAS (19)	164155.	10932.	15.02
SUBTOTAL	1509368.	40781.	37.01
TOTAL	2952859.	74349.	39.72

Hancock County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
OTH. PRINC. ART. (2)	333.	4299.	642.	14.	36.
MINOR ARTERIAL (6)	57.	693.	103.	2.	6.
CENCON & INTRAS (9)	163.	1202.	186.	4.	10.
SUBTOTAL	553.	6193.	931.	20.	52.
-----URBAN-----					
INTERSTATE (11)	838.	13066.	2208.	38.	97.
OTH. PRINC. ART. (14)	367.	4545.	680.	15.	38.
MINOR ARTERIAL (16)	215.	2595.	388.	9.	22.
CENCON & INTRAS (19)	213.	1574.	244.	5.	13.
SUBTOTAL	1633.	21781.	3520.	66.	171.
---TOTAL---	2186.	27974.	4451.	86.	223.
(TONS)	2.41	30.81	4.90	0.09	0.25

DAILY TRAVEL STATS

Hancock County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
OTH. PRINC. ART. (2)	386187.	8719.	44.29
MINOR ARTERIAL (6)	64533.	1610.	40.07
CENCON & INTRAS (9)	109027.	5451.	20.00
SUBTOTAL	559746.	15781.	35.47
-----URBAN-----			
INTERSTATE (11)	1051189.	18376.	57.21
OTH. PRINC. ART. (14)	414818.	10217.	40.60
MINOR ARTERIAL (16)	241267.	6025.	40.05
CENCON & INTRAS (19)	142838.	9522.	15.00
SUBTOTAL	1850111.	44139.	41.92
TOTAL	2409858.	59920.	40.22

 Shelby County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	655.	10684.	1852.	30.	77.
OTH. PRINC. ART. (2)	347.	4490.	669.	14.	37.
MINOR ARTERIAL (6)	8.	106.	16.	0.	1.
CENCON & INTRAS (9)	217.	1603.	248.	5.	13.
SUBTOTAL	1227.	16883.	2785.	50.	129.
-----URBAN-----					
INTERSTATE (11)	310.	5105.	894.	14.	37.
OTH. PRINC. ART. (14)	107.	1323.	198.	4.	11.
MINOR ARTERIAL (16)	26.	316.	47.	1.	3.
CENCON & INTRAS (19)	92.	685.	106.	2.	6.
SUBTOTAL	535.	7429.	1245.	22.	56.
---TOTAL---	1761.	24312.	4030.	71.	185.
(TONS)	1.94	26.77	4.44	0.08	0.20

DAILY TRAVEL STATS

Shelby County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	834384.	13723.	60.80
OTH. PRINC. ART. (2)	403064.	9048.	44.55
MINOR ARTERIAL (6)	9537.	225.	42.48
CENCON & INTRAS (9)	145410.	7293.	19.94
SUBTOTAL	1392395.	30288.	45.97
-----URBAN-----			
INTERSTATE (11)	395971.	6437.	61.51
OTH. PRINC. ART. (14)	121696.	2940.	41.39
MINOR ARTERIAL (16)	29326.	729.	40.22
CENCON & INTRAS (19)	62143.	4070.	15.27
SUBTOTAL	609137.	14176.	42.97
TOTAL	2001531.	44464.	45.01

Boone County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	1019.	15944.	2698.	46.	118.
OTH. PRINC. ART. (2)	459.	6039.	900.	19.	50.
MINOR ARTERIAL (6)	46.	551.	82.	2.	5.
CENCON & INTRAS (9)	259.	1909.	296.	6.	16.
SUBTOTAL	1782.	24443.	3977.	73.	189.
-----URBAN-----					
OTH. PRINC. ART. (14)	117.	1446.	216.	5.	12.
MINOR ARTERIAL (16)	47.	523.	79.	2.	5.
CENCON & INTRAS (19)	69.	507.	79.	2.	4.
SUBTOTAL	233.	2476.	374.	8.	21.
---TOTAL---	2015.	26920.	4351.	81.	210.
(TONS)	2.22	29.65	4.79	0.09	0.23

DAILY TRAVEL STATS

Boone County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	1279705.	22253.	57.51
OTH. PRINC. ART. (2)	537427.	11757.	45.71
MINOR ARTERIAL (6)	51310.	1278.	40.13
CENCON & INTRAS (9)	173205.	8660.	20.00
SUBTOTAL	2041649.	43948.	46.46
-----URBAN-----			
OTH. PRINC. ART. (14)	133247.	3225.	41.32
MINOR ARTERIAL (16)	49452.	1488.	33.23
CENCON & INTRAS (19)	45985.	3066.	15.00
SUBTOTAL	326439.	9173.	35.59
TOTAL	2368088.	53122.	44.58

Morgan County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	269.	4443.	781.	12.	32.
OTH. PRINC. ART. (2)	961.	13075.	1984.	41.	105.
MINOR ARTERIAL (6)	70.	845.	126.	3.	7.
CENCON & INTRAS (9)	318.	2574.	408.	8.	21.
SUBTOTAL	1618.	20937.	3299.	64.	165.
-----URBAN-----					
OTH. PRINC. ART. (14)	216.	3069.	480.	9.	24.
MINOR ARTERIAL (16)	24.	293.	44.	1.	3.
CENCON & INTRAS (19)	50.	367.	57.	1.	3.
SUBTOTAL	290.	3729.	580.	11.	30.
---TOTAL---	1908.	24666.	3879.	75.	195.
(TONS)	2.10	27.17	4.27	0.08	0.21

DAILY TRAVEL STATS

Morgan County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	343699.	5562.	61.79
OTH. PRINC. ART. (2)	1139076.	24108.	47.25
MINOR ARTERIAL (6)	78828.	1975.	39.92
CENCON & INTRAS (9)	227975.	10336.	22.06
SUBTOTAL	1789578.	41981.	42.63
-----URBAN-----			
OTH. PRINC. ART. (14)	260141.	5214.	49.90
MINOR ARTERIAL (16)	27186.	668.	40.69
CENCON & INTRAS (19)	33273.	2218.	15.00
SUBTOTAL	320600.	8100.	39.58
TOTAL	2110178.	50081.	42.14

 Madison County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	651.	10130.	1703.	29.	75.
OTH. PRINC. ART. (2)	700.	9184.	1370.	29.	76.
MINOR ARTERIAL (6)	4.	54.	8.	0.	0.
CENCON & INTRAS (9)	386.	2918.	451.	9.	24.
SUBTOTAL	1741.	22285.	3532.	68.	176.
-----URBAN-----					
INTERSTATE (11)	161.	2574.	439.	7.	19.
OTH. PRINC. ART. (14)	704.	8693.	1298.	29.	74.
CENCON & INTRAS (19)	330.	2436.	378.	8.	20.
SUBTOTAL	1195.	13704.	2115.	44.	113.
---TOTAL---	2936.	35989.	5647.	112.	289.
(TONS)	3.23	39.64	6.22	0.12	0.32

DAILY TRAVEL STATS

 Madison County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	816501.	14262.	57.25
OTH. PRINC. ART. (2)	818737.	18033.	45.40
MINOR ARTERIAL (6)	4995.	124.	40.35
CENCON & INTRAS (9)	264094.	12813.	20.61
SUBTOTAL	1904326.	45232.	42.10
-----URBAN-----			
INTERSTATE (11)	203520.	3419.	59.52
OTH. PRINC. ART. (14)	799745.	19349.	41.33
CENCON & INTRAS (19)	221019.	14735.	15.00
SUBTOTAL	1224283.	37502.	32.65
TOTAL	3128610.	82734.	37.82

 Total Model Area

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	4134.	65865.	11255.	187.	483.
OTH. PRINC. ART. (2)	4588.	60523.	9075.	191.	494.
MINOR ARTERIAL (6)	721.	8738.	1311.	28.	73.
CENCON & INTRAS (9)	2279.	17125.	2662.	55.	143.
SUBTOTAL	11722.	152251.	24302.	461.	1194.
-----URBAN-----					
INTERSTATE (11)	11419.	167393.	27664.	496.	1283.
OTH. FWY & XWAY (12)	1487.	17845.	2697.	58.	151.
OTH. PRINC. ART. (14)	9441.	110969.	16703.	366.	946.
MINOR ARTERIAL (16)	8022.	92102.	13899.	310.	802.
CENCON & INTRAS (19)	5162.	38122.	5907.	124.	320.
SUBTOTAL	35531.	426431.	66870.	1354.	3502.
---TOTAL---	47253.	578682.	91172.	1815.	4695.
(TONS)	52.04	637.31	100.41	2.00	5.17

DAILY TRAVEL STATS

 Total Model Area

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	5225685.	88832.	58.83
OTH. PRINC. ART. (2)	5350052.	118542.	45.13
MINOR ARTERIAL (6)	793788.	21024.	37.76
CENCON & INTRAS (9)	1547408.	75938.	20.38
SUBTOTAL	12916946.	304336.	42.44
-----URBAN-----			
INTERSTATE (11)	13986826.	274441.	50.96
OTH. FWY & XWAY (12)	1630553.	44099.	36.98
OTH. PRINC. ART. (14)	10240456.	284976.	35.93
MINOR ARTERIAL (16)	8680994.	243581.	35.64
CENCON & INTRAS (19)	3458468.	229853.	15.05
SUBTOTAL	37997300.	1076950.	35.28
TOTAL	50914200.	1381284.	36.86

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
 EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
 - RUN TIME: 08:00:31 29NOV06

EMISSIONS IN KILOGRAMS PER DAY
 +++ ALTERNATIVE IS:06A
 MOBILE6 INPUT FILE :

 Marion County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CBD	(1)	1249.	14707.	2278.	47.	123.
CDB FRINGE	(2)	11628.	138478.	21506.	449.	1160.
RESIDENTIAL	(3)	11501.	139966.	22202.	436.	1129.
RURAL	(5)	450.	5883.	956.	17.	44.
---TOTAL---		24827.	299035.	46943.	949.	2455.
(TONS)		27.34	329.33	51.70	1.05	2.70

 Marion County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	8836.	128056.	21195.	383.	992.
EXPRESSWAY	(2)	531.	6450.	973.	21.	54.
2-WAY ART w/prk	(3)	6117.	69441.	10493.	234.	606.
ONE-WAY ARTERIAL	(4)	671.	7596.	1150.	26.	66.
CENTROID CONNECT	(5)	3017.	22277.	3452.	72.	187.
2-WAY ART wo/prk	(6)	5415.	61824.	9287.	204.	528.
FREEWAY RAMPS	(7)	239.	3390.	393.	8.	22.
---TOTAL---		24827.	299035.	46943.	949.	2455.
(TONS)		27.34	329.33	51.70	1.05	2.70

DAILY TRAVEL STATS

 Marion County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CBD	(1)	1328063.	39047.	34.01
CDB FRINGE	(2)	12561890.	348952.	36.00
RESIDENTIAL	(3)	12214192.	349577.	34.94
RURAL	(5)	473095.	13532.	34.96
TOTAL		26577216.	751108.	35.38

 Marion County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	10737974.	209925.	51.15
EXPRESSWAY	(2)	589701.	15376.	38.35
2-WAY ART w/prk	(3)	6554072.	188930.	34.69

ONE-WAY ARTERIAL (4)	719259.	20749.	34.66
CENTROID CONNECT (5)	2020928.	134531.	15.02
2-WAY ART wo/prk (6)	5719437.	170903.	33.47
FREEWAY RAMPS (7)	235873.	10694.	22.06
TOTAL	26577216.	751108.	35.38

Hamilton County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CDB FRINGE	(2)	299.	3926.	630.	12.	31.
RESIDENTIAL	(3)	3548.	38757.	5909.	128.	330.
SUBURBAN CBD	(4)	326.	3533.	535.	12.	30.
RURAL	(5)	1562.	19169.	2971.	60.	155.
---TOTAL---		5734.	65385.	10045.	212.	547.
(TONS)		6.32	72.01	11.06	0.23	0.60

Hamilton County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	930.	13268.	2173.	40.	104.
EXPRESSWAY	(2)	1160.	13964.	2100.	46.	118.
2-WAY ART w/prk	(3)	1179.	13640.	2055.	46.	119.
ONE-WAY ARTERIAL	(4)	1.	11.	2.	0.	0.
CENTROID CONNECT	(5)	1113.	8220.	1274.	27.	69.
2-WAY ART wo/prk	(6)	1351.	16280.	2442.	53.	138.
---TOTAL---		5734.	65385.	10045.	212.	547.
(TONS)		6.32	72.01	11.06	0.23	0.60

DAILY TRAVEL STATS

Hamilton County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CDB FRINGE	(2)	339342.	8227.	41.25
RESIDENTIAL	(3)	3576266.	115769.	30.89
SUBURBAN CBD	(4)	327306.	10736.	30.49
RURAL	(5)	1679816.	41990.	40.01
TOTAL		5922722.	176722.	33.51

Hamilton County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1124522.	22362.	50.29
EXPRESSWAY	(2)	1275340.	34076.	37.43
2-WAY ART w/prk	(3)	1284433.	35412.	36.27
ONE-WAY ARTERIAL	(4)	1055.	26.	40.00
CENTROID CONNECT	(5)	745752.	45449.	16.41
2-WAY ART wo/prk	(6)	1491627.	39396.	37.86
TOTAL		5922722.	176722.	33.51

 Johnson County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CDB FRINGE	(2)	126.	1394.	210.	5.	12.
RESIDENTIAL	(3)	1344.	16504.	2601.	51.	133.
SUBURBAN CBD	(4)	174.	1876.	283.	6.	16.
RURAL	(5)	1538.	20189.	3212.	61.	158.
---TOTAL---		3182.	39963.	6306.	123.	318.
(TONS)		3.50	44.01	6.94	0.14	0.35

 Johnson County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	855.	13544.	2297.	39.	100.
EXPRESSWAY	(2)	142.	2193.	346.	6.	16.
2-WAY ART w/prk	(3)	495.	6166.	930.	20.	52.
CENTROID CONNECT	(5)	688.	5079.	787.	16.	43.
2-WAY ART wo/prk	(6)	1001.	12981.	1946.	41.	107.
---TOTAL---		3182.	39963.	6306.	123.	318.
(TONS)		3.50	44.01	6.94	0.14	0.35

DAILY TRAVEL STATS

 Johnson County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CDB FRINGE	(2)	129652.	3952.	32.80
RESIDENTIAL	(3)	1435396.	39866.	36.01
SUBURBAN CBD	(4)	171800.	5725.	30.01
RURAL	(5)	1706280.	39243.	43.48
TOTAL		3443129.	88786.	38.78

 Johnson County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1079497.	18429.	58.57
EXPRESSWAY	(2)	178152.	3152.	56.52
2-WAY ART w/prk	(3)	563045.	13679.	41.16
CENTROID CONNECT	(5)	460732.	27265.	16.90
2-WAY ART wo/prk	(6)	1161702.	26261.	44.24
TOTAL		3443129.	88786.	38.78

Hendricks County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	1391.	17173.	2712.	54.	139.
RURAL	(5)	1314.	17266.	2808.	52.	134.
---TOTAL---		2705.	34439.	5520.	105.	273.
(TONS)		2.98	37.93	6.08	0.12	0.30

Hendricks County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	825.	13601.	2383.	38.	97.
2-WAY ART w/prk	(3)	310.	3721.	557.	12.	32.
CENTROID CONNECT	(5)	526.	3882.	601.	13.	33.
2-WAY ART wo/prk	(6)	1045.	13234.	1979.	43.	111.
---TOTAL---		2705.	34439.	5520.	105.	273.
(TONS)		2.98	37.93	6.08	0.12	0.30

DAILY TRAVEL STATS

Hendricks County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	1504721.	40672.	37.00
RURAL	(5)	1448140.	33676.	43.00
TOTAL		2952859.	74349.	39.72

Hendricks County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1054251.	17121.	61.58
2-WAY ART w/prk	(3)	347510.	8799.	39.49
CENTROID CONNECT	(5)	352165.	20339.	17.31
2-WAY ART wo/prk	(6)	1198934.	28089.	42.68
TOTAL		2952859.	74349.	39.72

Hancock County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	1603.	21449.	3470.	65.	168.
SUBURBAN CBD	(4)	30.	332.	50.	1.	3.
RURAL	(5)	553.	6193.	931.	20.	52.
---TOTAL---		2186.	27974.	4451.	86.	223.
(TONS)		2.41	30.81	4.90	0.09	0.25

Hancock County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	838.	13066.	2208.	38.	97.
2-WAY ART w/prk	(3)	272.	3288.	491.	11.	28.
CENTROID CONNECT	(5)	376.	2776.	430.	9.	23.
2-WAY ART wo/prk	(6)	700.	8844.	1322.	29.	74.
---TOTAL---		2186.	27974.	4451.	86.	223.
(TONS)		2.41	30.81	4.90	0.09	0.25

DAILY TRAVEL STATS

Hancock County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	1820010.	43182.	42.15
SUBURBAN CBD	(4)	30102.	958.	31.43
RURAL	(5)	559746.	15781.	35.47
TOTAL		2409858.	59920.	40.22

Hancock County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1051189.	18376.	57.21
2-WAY ART w/prk	(3)	305799.	7635.	40.05
CENTROID CONNECT	(5)	251864.	14974.	16.82
2-WAY ART wo/prk	(6)	801005.	18936.	42.30
TOTAL		2409858.	59920.	40.22

 Shelby County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	528.	7345.	1232.	21.	56.
SUBURBAN CBD	(4)	8.	98.	15.	0.	1.
RURAL	(5)	1225.	16868.	2783.	50.	129.
---TOTAL---		1761.	24312.	4030.	71.	185.
(TONS)		1.94	26.77	4.44	0.08	0.20

 Shelby County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	964.	15789.	2745.	44.	114.
2-WAY ART w/prk	(3)	36.	449.	68.	1.	4.
CENTROID CONNECT	(5)	307.	2269.	352.	7.	19.
2-WAY ART wo/prk	(6)	453.	5804.	866.	19.	48.
---TOTAL---		1761.	24312.	4030.	71.	185.
(TONS)		1.94	26.77	4.44	0.08	0.20

DAILY TRAVEL STATS

 Shelby County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	601561.	14016.	42.92
SUBURBAN CBD	(4)	8905.	249.	35.78
RURAL	(5)	1391066.	30199.	46.06
TOTAL		2001531.	44464.	45.01

 Shelby County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1230355.	20160.	61.03
2-WAY ART w/prk	(3)	41198.	1000.	41.21
CENTROID CONNECT	(5)	205825.	11320.	18.18
2-WAY ART wo/prk	(6)	524153.	11984.	43.74
TOTAL		2001531.	44464.	45.01

Boone County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	227.	2405.	363.	8.	21.
SUBURBAN CBD	(4)	6.	72.	11.	0.	1.
RURAL	(5)	1782.	24443.	3977.	73.	189.
---TOTAL---		2015.	26920.	4351.	81.	210.
(TONS)		2.22	29.65	4.79	0.09	0.23

Boone County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	1019.	15944.	2698.	46.	118.
2-WAY ART w/prk	(3)	92.	1074.	162.	4.	9.
CENTROID CONNECT	(5)	327.	2416.	374.	8.	20.
2-WAY ART wo/prk	(6)	576.	7485.	1116.	24.	62.
---TOTAL---		2015.	26920.	4351.	81.	210.
(TONS)		2.22	29.65	4.79	0.09	0.23

DAILY TRAVEL STATS

Boone County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	320040.	8987.	35.61
SUBURBAN CBD	(4)	6399.	186.	34.37
RURAL	(5)	2041649.	43948.	46.46
TOTAL		2368088.	53122.	44.58

Boone County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1377459.	23647.	58.25
2-WAY ART w/prk	(3)	100762.	2767.	36.42
CENTROID CONNECT	(5)	219191.	11726.	18.69
2-WAY ART wo/prk	(6)	670675.	14982.	44.77
TOTAL		2368088.	53122.	44.58

Morgan County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	271.	3429.	528.	11.	27.
SUBURBAN CBD	(4)	1.	16.	2.	0.	0.
RURAL	(5)	1635.	21220.	3349.	65.	167.
---TOTAL---		1908.	24666.	3879.	75.	195.
(TONS)		2.10	27.17	4.27	0.08	0.21

Morgan County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	310.	5133.	902.	14.	37.
EXPRESSWAY	(2)	92.	1474.	239.	4.	11.
2-WAY ART w/prk	(3)	94.	1138.	170.	4.	10.
CENTROID CONNECT	(5)	343.	2534.	393.	8.	21.
2-WAY ART wo/prk	(6)	1068.	14386.	2175.	45.	117.
---TOTAL---		1908.	24666.	3879.	75.	195.
(TONS)		2.10	27.17	4.27	0.08	0.21

DAILY TRAVEL STATS

Morgan County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	297244.	7707.	38.57
SUBURBAN CBD	(4)	1491.	40.	37.02
RURAL	(5)	1811443.	42333.	42.79
TOTAL		2110178.	50081.	42.14

Morgan County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	396910.	6419.	61.83
EXPRESSWAY	(2)	116450.	1953.	59.62
2-WAY ART w/prk	(3)	106014.	2643.	40.11
CENTROID CONNECT	(5)	229902.	12050.	19.08
2-WAY ART wo/prk	(6)	1260903.	27016.	46.67
TOTAL		2110178.	50081.	42.14

 Madison County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	1134.	12984.	2008.	41.	107.
SUBURBAN CBD	(4)	61.	719.	108.	2.	6.
RURAL	(5)	1741.	22285.	3532.	68.	176.
---TOTAL---		2936.	35989.	5647.	112.	289.
(TONS)		3.23	39.64	6.22	0.12	0.32

 Madison County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	811.	12704.	2142.	36.	94.
2-WAY ART w/prk	(3)	4.	54.	8.	0.	0.
CENTROID CONNECT	(5)	705.	5202.	806.	17.	44.
2-WAY ART wo/prk	(6)	1416.	18029.	2691.	58.	151.
---TOTAL---		2936.	35989.	5647.	112.	289.
(TONS)		3.23	39.64	6.22	0.12	0.32

DAILY TRAVEL STATS

 Madison County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	1157994.	35733.	32.41
SUBURBAN CBD	(4)	66290.	1769.	37.47
RURAL	(5)	1904326.	45232.	42.10
TOTAL		3128610.	82734.	37.82

 Madison County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1020020.	17681.	57.69
2-WAY ART w/prk	(3)	4995.	124.	40.35
CENTROID CONNECT	(5)	471896.	27278.	17.30
2-WAY ART wo/prk	(6)	1631699.	37651.	43.34
TOTAL		3128610.	82734.	37.82

 Total Model Area

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CBD	(1)	1249.	14707.	2278.	47.	123.
CDB FRINGE	(2)	12052.	143799.	22346.	465.	1204.
RESIDENTIAL	(3)	21547.	260011.	41026.	815.	2109.
SUBURBAN CBD	(4)	606.	6647.	1003.	22.	57.
RURAL	(5)	11800.	153517.	24519.	465.	1203.
---TOTAL---		47253.	578682.	91172.	1815.	4695.
(TONS)		52.04	637.31	100.41	2.00	5.17

 Total Model Area

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	15389.	231106.	38743.	677.	1753.
EXPRESSWAY	(2)	1924.	24081.	3657.	77.	200.
2-WAY ART w/prk	(3)	8601.	98972.	14934.	332.	860.
ONE-WAY ARTERIAL	(4)	672.	7608.	1152.	26.	67.
CENTROID CONNECT	(5)	7403.	54655.	8469.	178.	458.
2-WAY ART wo/prk	(6)	13026.	158869.	23824.	516.	1336.
FREEWAY RAMPS	(7)	239.	3390.	393.	8.	22.
---TOTAL---		47253.	578682.	91172.	1815.	4695.
(TONS)		52.04	637.31	100.41	2.00	5.17

 DAILY TRAVEL STATS

 Total Model Area

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CBD	(1)	1328063.	39047.	34.01
CDB FRINGE	(2)	13030886.	361131.	36.08
RESIDENTIAL	(3)	22927430.	655510.	34.98
SUBURBAN CBD	(4)	612291.	19662.	31.14
RURAL	(5)	13015572.	305935.	42.54
TOTAL		50914200.	1381284.	36.86

 Total Model Area

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	19072180.	354119.	53.86
EXPRESSWAY	(2)	2159643.	54557.	39.59
2-WAY ART w/prk	(3)	9307830.	260989.	35.66
ONE-WAY ARTERIAL	(4)	720314.	20775.	34.67
CENTROID CONNECT	(5)	4958253.	304933.	16.26
2-WAY ART wo/prk	(6)	14460144.	375218.	38.54
FREEWAY RAMPS	(7)	235873.	10694.	22.06
TOTAL		50914200.	1381284.	36.86

 * MOBILE6.2 (31-Oct-2002) *
 * Input file: MOBILE6.IN (file 1, run 1). *

* #####
 * ~ 3.0 NON-RAMP
 * File 1, Run 1, Scenario 1.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

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

VMT Distribution:		0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000				

 Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000				
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	-----
		0.0142	0.0053				
0.0350	ECARBON:	-----	-----	-----	-----	-----	0.0997
	0.1759		0.0147				
0.0503	OCARBON:	-----	-----	-----	-----	-----	0.0281
	0.0887		0.0075				
0.0003	SO4:	0.0006	0.0007	0.0007	0.0007	0.0011	0.0002
	0.0009	0.0002	0.0007				
Total Exhaust PM:		0.0043	0.0045	0.0048	0.0046	0.0543	0.1280
0.0856	0.2656	0.0144	0.0281				
0.0053	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
	0.0053	0.0053	0.0053				
0.0020	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
	0.0065	0.0010	0.0024				
0.0929	Total PM:	0.0117	0.0119	0.0121	0.0119	0.0618	0.1353
	0.2774	0.0207	0.0358				
0.0056	SO2:	0.0074	0.0096	0.0125	0.0104	0.0187	0.0032
	0.0133	0.0036	0.0097				
0.0068	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
	0.0270	0.0113	0.0924				

 * #####
 * ~ 5.0 NON-RAMP
 * File 1, Run 1, Scenario 2.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDDT	Vehicle Type: HDDV	MC	LDGV All Veh	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV
0.0020	0.0829	0.0055	1.0000				0.0349	0.0005

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000					
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	0.0531	-----
		0.0142	0.0053					
0.0350	ECARBON:							0.0997
		0.1759	0.0147					
0.0503	OCARBON:							0.0281
		0.0887	0.0075					
0.0003	SO4:	0.0006	0.0007	0.0007	0.0007	0.0011	0.0011	0.0002
		0.0009	0.0002	0.0007				
0.0856	Total Exhaust PM:	0.0043	0.0045	0.0048	0.0046	0.0543	0.0543	0.1280
		0.2656	0.0144	0.0281				
0.0053	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
		0.0053	0.0053					
0.0020	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0022	0.0020
		0.0065	0.0010	0.0024				
0.0929	Total PM:	0.0117	0.0119	0.0121	0.0119	0.0618	0.0618	0.1353
		0.2774	0.0207	0.0358				
0.0056	SO2:	0.0074	0.0096	0.0125	0.0104	0.0187	0.0187	0.0032
		0.0133	0.0036	0.0097				
0.0068	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0451	0.0068
		0.0270	0.0113	0.0924				

* #####
 * ~10.0 NON-RAMP
 * File 1, Run 1, Scenario 3.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

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

 VMT Distribution: 0.3869 0.3550 0.1323 0.0349 0.0005
 0.0020 0.0829 0.0055 1.0000

 Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000				
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	-----
		0.0142	0.0053				
0.0350	ECARBON:						0.0997
		0.1759	0.0147				
0.0503	OCARBON:						0.0281
		0.0887	0.0075				
	SO4:	0.0006	0.0007	0.0007	0.0007	0.0011	0.0002
0.0003		0.0009	0.0002	0.0007			
	Total Exhaust PM:	0.0043	0.0045	0.0048	0.0046	0.0543	0.1280
0.0856		0.2656	0.0144	0.0281			
	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
0.0053		0.0053	0.0053				
	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
0.0020		0.0065	0.0010	0.0024			
	Total PM:	0.0117	0.0119	0.0121	0.0119	0.0618	0.1353
0.0929		0.2774	0.0207	0.0358			
	SO2:	0.0074	0.0096	0.0125	0.0104	0.0187	0.0032
0.0056		0.0133	0.0036	0.0097			
	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
0.0068		0.0270	0.0113	0.0924			

 * #####
 * ~15.0 NON-RAMP
 * File 1, Run 1, Scenario 4.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

	Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV
LDDT	HDDV	MC	All Veh				
	GVWR:		<6000	>6000	(All)		
			-----	-----	-----	-----	-----
	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
0.0020		0.0829	0.0055	1.0000			

 Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000				

0.0053	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
0.0020	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
0.0929	Total PM:	0.0117	0.0119	0.0121	0.0119	0.0618	0.1353
0.0056	SO2:	0.0074	0.0096	0.0125	0.0104	0.0187	0.0032
0.0068	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068

* #####
 * ~25.0 NON-RAMP
 * File 1, Run 1, Scenario 6.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDVT	Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV
	HDDV	MC	All Veh				
	GVWR:		<6000	>6000	(All)		
	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000				

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	
		0.0000	0.0000				
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	
		0.0142	0.0053				
0.0350	ECARBON:						0.0997
		0.1759	0.0147				
0.0503	OCARBON:						0.0281
		0.0887	0.0075				
0.0003	SO4:	0.0005	0.0006	0.0006	0.0006	0.0012	0.0002
		0.0009	0.0002	0.0006			
0.0856	Total Exhaust PM:	0.0043	0.0045	0.0048	0.0046	0.0544	0.1280
		0.2656	0.0281				
0.0053	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
		0.0053	0.0053				
0.0020	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
		0.0065	0.0024				
0.0929	Total PM:	0.0116	0.0118	0.0121	0.0119	0.0619	0.1353
		0.2774	0.0358				
0.0056	SO2:	0.0074	0.0096	0.0126	0.0104	0.0186	0.0032
		0.0133	0.0097				
0.0068	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
		0.0270	0.0924				

 * #####
 * ~30.0 NON-RAMP
 * File 1, Run 1, Scenario 7.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDDT	Vehicle Type: HDDV	LDGV MC	LDGT12 All Veh	LDGT34 <6000	LDGT >6000	HDGV (All)	LDDV
-----	-----	-----	-----	-----	-----	-----	-----
0.0020	0.0829	0.0055	1.0000	0.1323	0.0349	0.0005	

 Composite Emission Factors (g/mi):

-----	-----	-----	-----	-----	-----	-----	-----
-----	-----	0.0000	0.0000	0.0000	0.0000	0.0000	-----
-----	-----	0.0000	0.0000	-----	-----	-----	-----
-----	-----	0.0038	0.0039	0.0041	0.0040	0.0531	-----
-----	-----	0.0142	0.0053	-----	-----	-----	-----
0.0350	0.1759	-----	0.0147	-----	-----	-----	0.0997
0.0503	0.0887	-----	0.0075	-----	-----	-----	0.0281
0.0003	0.0009	0.0004	0.0006	0.0006	0.0006	0.0013	0.0002
0.0856	0.2656	0.0001	0.0005	0.0047	0.0045	0.0545	0.1280
0.0053	0.0053	0.0042	0.0044	0.0053	0.0053	0.0053	0.0053
0.0020	0.0065	0.0053	0.0053	0.0020	0.0020	0.0022	0.0020
0.0929	0.2774	0.0020	0.0020	0.0120	0.0119	0.0620	0.1353
0.0056	0.0133	0.0115	0.0118	0.0126	0.0104	0.0186	0.0032
0.0068	0.0270	0.0075	0.0096	0.1003	0.1010	0.0451	0.0068
-----	-----	0.0206	0.0358	-----	-----	-----	-----
-----	-----	0.0075	0.0096	-----	-----	-----	-----
-----	-----	0.1016	0.1012	-----	-----	-----	-----
-----	-----	0.0113	0.0924	-----	-----	-----	-----

* #####
 * ~35.0 NON-RAMP
 * File 1, Run 1, Scenario 8.
 * #####

Calendar Year: 2006
 Month: July

Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDDT	Vehicle Type: HDDV	MC	LDGV All Veh	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV
	GVWR: -----							
	VMT Distribution: -----							
0.0020	0.0829	0.0055	0.3869 1.0000	0.3550	0.1323		0.0349	0.0005

 Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000					-----
	GASPM:	0.0038	0.0039	0.0042	0.0040	0.0531		-----
		0.0142	0.0054					-----
0.0350	ECARBON:							0.0997
		0.1759	0.0147					
0.0503	OCARBON:							0.0281
		0.0887	0.0075					
	SO4:	0.0003	0.0005	0.0005	0.0005	0.0015	0.0002	
0.0003		0.0009	0.0001	0.0005				
	Total Exhaust PM:	0.0041	0.0044	0.0047	0.0045	0.0546	0.1280	
0.0856		0.2656	0.0143	0.0280				
	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	
0.0053		0.0053	0.0053					
	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020	
0.0020		0.0065	0.0010	0.0024				
	Total PM:	0.0115	0.0117	0.0120	0.0118	0.0621	0.1353	
0.0929		0.2774	0.0206	0.0357				
	SO2:	0.0075	0.0096	0.0126	0.0104	0.0186	0.0032	
0.0056		0.0133	0.0036	0.0098				
	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068	
0.0068		0.0270	0.0113	0.0924				

 * #####
 * ~40.0 NON-RAMP
 * File 1, Run 1, Scenario 9.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

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

0.0350	ECARBON:	0.1759	0.0147				0.0997
0.0503	OCARBON:	0.0887	0.0075				0.0281
0.0003	SO4:	0.0009	0.0005	0.0005	0.0005	0.0015	0.0002
	Total Exhaust PM:	0.0041	0.0044	0.0047	0.0045	0.0546	0.1280
0.0856	Brake:	0.2656	0.0280	0.0053	0.0053	0.0053	0.0053
0.0053	Tire:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
0.0020	Total PM:	0.0065	0.0024	0.0020	0.0020	0.0022	0.0020
0.0929	SO2:	0.2774	0.0357	0.0120	0.0118	0.0621	0.1353
0.0056	NH3:	0.0133	0.0098	0.0126	0.0104	0.0186	0.0032
0.0068		0.0270	0.0924	0.1003	0.1010	0.0451	0.0068

* #####
 * ~50.0 NON-RAMP
 * File 1, Run 1, Scenario 11.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDVT	Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV
	HDDV	MC	All Veh	<6000	>6000	(All)	
	GVWR:						
0.0020	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
		0.0829	1.0000				

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	
	GASPM:	0.0038	0.0039	0.0042	0.0040	0.0531	
0.0350	ECARBON:	0.1759	0.0147				0.0997
0.0503	OCARBON:	0.0887	0.0075				0.0281
0.0003	SO4:	0.0009	0.0005	0.0005	0.0005	0.0015	0.0002
	Total Exhaust PM:	0.0041	0.0044	0.0047	0.0045	0.0546	0.1280
0.0856	Brake:	0.2656	0.0280	0.0053	0.0053	0.0053	0.0053
0.0053		0.0053	0.0053	0.0053	0.0053	0.0053	0.0053

* #####
 * ~60.0 NON-RAMP
 * File 1, Run 1, Scenario 13.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

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

VMT Distribution:							
0.0020	0.0829	0.0055	1.0000	0.1323		0.0349	0.0005

Composite Emission Factors (g/mi):							
	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	
		0.0000	0.0000				
	GASPM:	0.0038	0.0039	0.0042	0.0040	0.0531	
		0.0142	0.0054				
0.0350	ECARBON:		0.0147				0.0997
	0.1759						
0.0503	OCARBON:		0.0075				0.0281
	0.0887						
0.0003	SO4:	0.0003	0.0005	0.0005	0.0005	0.0015	0.0002
	0.0009	0.0001	0.0005				
Total Exhaust PM:	0.0041	0.0044	0.0047	0.0045	0.0546	0.1280	
0.0856	0.2656	0.0143	0.0280				
0.0053	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
	0.0053	0.0053	0.0053				
0.0020	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
	0.0065	0.0010	0.0024				
0.0929	Total PM:	0.0115	0.0117	0.0120	0.0118	0.0621	0.1353
	0.2774	0.0206	0.0357				
0.0056	SO2:	0.0075	0.0096	0.0126	0.0104	0.0186	0.0032
	0.0133	0.0036	0.0098				
0.0068	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
	0.0270	0.0113	0.0924				

* #####
 * ~65.0 NON-RAMP
 * File 1, Run 1, Scenario 14.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
-----	-----	0.0000	0.0000	-----	-----	-----	-----
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	-----
-----	-----	0.0142	0.0053	-----	-----	-----	-----
	ECARBON:	-----	-----	-----	-----	-----	0.0997
0.0350	0.1759	-----	0.0147	-----	-----	-----	-----
	OCARBON:	-----	-----	-----	-----	-----	0.0281
0.0503	0.0887	-----	0.0075	-----	-----	-----	-----
	SO4:	0.0006	0.0007	0.0007	0.0007	0.0011	0.0002
0.0003	0.0009	0.0002	0.0007	-----	-----	-----	-----
	Total Exhaust PM:	0.0043	0.0045	0.0048	0.0046	0.0543	0.1280
0.0856	0.2656	0.0144	0.0281	-----	-----	-----	-----
	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
0.0053	0.0053	0.0053	0.0053	-----	-----	-----	-----
	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
0.0020	0.0065	0.0010	0.0024	-----	-----	-----	-----
	Total PM:	0.0117	0.0119	0.0121	0.0119	0.0618	0.1353
0.0929	0.2774	0.0207	0.0358	-----	-----	-----	-----
	SO2:	0.0074	0.0096	0.0125	0.0104	0.0187	0.0032
0.0056	0.0133	0.0036	0.0097	-----	-----	-----	-----
	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
0.0068	0.0270	0.0113	0.0924	-----	-----	-----	-----

* #####

* ~ 5.0 ARTERIAL

* File 1, Run 1, Scenario 16.

* #####

Calendar Year: 2006

Month: July

Gasoline Fuel Sulfur Content: 33. ppm

Diesel Fuel Sulfur Content: 15. ppm

Particle Size Cutoff: 2.50 Microns

Reformulated Gas: No

LDDT	Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV
	HDDV	MC	All Veh				
	GVWR:		<6000	>6000	(All)		
	-----	-----	-----	-----	-----	-----	-----
	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000	-----	-----	-----	-----

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
-----	-----	0.0000	0.0000	-----	-----	-----	-----
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	-----
-----	-----	0.0142	0.0053	-----	-----	-----	-----
	ECARBON:	-----	-----	-----	-----	-----	0.0997
0.0350	0.1759	-----	0.0147	-----	-----	-----	-----

* ~20.0 ARTERIAL
 * File 1, Run 1, Scenario 19.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDDT	Vehicle Type: HDDV	LDGV MC	LDGT12 All Veh	LDGT34 <6000	LDGT >6000	HDGV (All)	LDDV
	GVWR:						
	-----	-----	-----	-----	-----	-----	-----
	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000				

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
	-----	0.0000	0.0000				-----
	GASPM:	0.0038	0.0039	0.0041	0.0039	0.0531	-----
	-----	0.0142	0.0053				-----
	ECARBON:	-----	-----	-----	-----	-----	0.0997
0.0350	0.1759	-----	0.0147				
	OCARBON:	-----	-----	-----	-----	-----	0.0281
0.0503	0.0887	-----	0.0075				
	SO4:	0.0006	0.0007	0.0007	0.0007	0.0011	0.0002
0.0003	0.0009	0.0002	0.0007				
	Total Exhaust PM:	0.0043	0.0045	0.0048	0.0046	0.0543	0.1280
0.0856	0.2656	0.0144	0.0281				
	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
0.0053	0.0053	0.0053	0.0053				
	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
0.0020	0.0065	0.0010	0.0024				
	Total PM:	0.0117	0.0119	0.0121	0.0119	0.0618	0.1353
0.0929	0.2774	0.0207	0.0358				
	SO2:	0.0074	0.0096	0.0125	0.0104	0.0187	0.0032
0.0056	0.0133	0.0036	0.0097				
	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
0.0068	0.0270	0.0113	0.0924				

* #####
 * ~25.0 ARTERIAL
 * File 1, Run 1, Scenario 20.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

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

VMT Distribution:			0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000					

Composite Emission Factors (g/mi):

Lead:		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000					
GASPM:		0.0038	0.0039	0.0041	0.0039	0.0531	-----	-----
		0.0142	0.0053					
ECARBON:								
0.0350	0.1759		0.0147					0.0997
OCARBON:								
0.0503	0.0887		0.0075					0.0281
SO4:		0.0005	0.0006	0.0006	0.0006	0.0012	0.0002	
0.0003	0.0009	0.0002	0.0006					
Total Exhaust PM:		0.0043	0.0045	0.0048	0.0046	0.0544	0.1280	
0.0856	0.2656	0.0143	0.0281					
Brake:		0.0053	0.0053	0.0053	0.0053	0.0053	0.0053	
0.0053	0.0053	0.0053	0.0053					
Tire:		0.0020	0.0020	0.0020	0.0020	0.0022	0.0020	
0.0020	0.0065	0.0010	0.0024					
Total PM:		0.0116	0.0118	0.0121	0.0119	0.0619	0.1353	
0.0929	0.2774	0.0207	0.0358					
SO2:		0.0074	0.0096	0.0126	0.0104	0.0186	0.0032	
0.0056	0.0133	0.0036	0.0097					
NH3:		0.1016	0.1012	0.1003	0.1010	0.0451	0.0068	
0.0068	0.0270	0.0113	0.0924					

* #####
* ~30.0 ARTERIAL
* File 1, Run 1, Scenario 21.
* #####

Calendar Year: 2006
Month: July
Gasoline Fuel Sulfur Content: 33. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 2.50 Microns
Reformulated Gas: No

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

VMT Distribution:			0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000					

* #

Calendar Year: 2006
Month: July
Gasoline Fuel Sulfur Content: 33. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 2.50 Microns
Reformulated Gas: No

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

	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000				

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	-----
		0.0000	0.0000				
	GASPM:	0.0038	0.0039	0.0042	0.0040	0.0531	-----
		0.0142	0.0054				
0.0350	ECARBON:						0.0997
	0.1759		0.0147				
0.0503	OCARBON:						0.0281
	0.0887		0.0075				
0.0003	SO4:	0.0003	0.0005	0.0005	0.0005	0.0015	0.0002
	0.0009	0.0001	0.0005				
Total Exhaust PM:		0.0041	0.0044	0.0047	0.0045	0.0546	0.1280
0.0856	0.2656	0.0143	0.0280				
0.0053	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
	0.0053	0.0053	0.0053				
0.0020	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
	0.0065	0.0010	0.0024				
0.0929	Total PM:	0.0115	0.0117	0.0120	0.0118	0.0621	0.1353
	0.2774	0.0206	0.0357				
0.0056	SO2:	0.0075	0.0096	0.0126	0.0104	0.0186	0.0032
	0.0133	0.0036	0.0098				
0.0068	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
	0.0270	0.0113	0.0924				

* #
* ~55.0 ARTERIAL
* File 1, Run 1, Scenario 26.
* #

Calendar Year: 2006
Month: July
Gasoline Fuel Sulfur Content: 33. ppm
Diesel Fuel Sulfur Content: 15. ppm
Particle Size Cutoff: 2.50 Microns
Reformulated Gas: No

NH3: 0.1016 0.1012 0.1003 0.1010 0.0451 0.0068
 0.0068 0.0270 0.0113 0.0924

* #####
 * ~VMT BY FACILITY
 * File 1, Run 1, Scenario 30.
 * #####

Calendar Year: 2006
 Month: July
 Gasoline Fuel Sulfur Content: 33. ppm
 Diesel Fuel Sulfur Content: 15. ppm
 Particle Size Cutoff: 2.50 Microns
 Reformulated Gas: No

LDDT	Vehicle Type: HDDV	LDGV MC	LDGT12 All Veh	LDGT34	LDGT (All)	HDGV	LDDV
	GVWR:		<6000	>6000			
	VMT Distribution:	0.3869	0.3550	0.1323		0.0349	0.0005
0.0020	0.0829	0.0055	1.0000				

Composite Emission Factors (g/mi):

	Lead:	0.0000	0.0000	0.0000	0.0000	0.0000	
		0.0000	0.0000				
	GASPM:	0.0038	0.0039	0.0042	0.0040	0.0531	
		0.0142	0.0054				
0.0350	ECARBON:		0.0147				0.0997
	OCARBON:						
0.0503	0.0887		0.0075				0.0281
	SO4:	0.0003	0.0005	0.0005	0.0005	0.0014	0.0002
0.0003	0.0009	0.0001	0.0005				
	Total Exhaust PM:	0.0041	0.0044	0.0047	0.0045	0.0546	0.1280
0.0856	0.2656	0.0143	0.0280				
	Brake:	0.0053	0.0053	0.0053	0.0053	0.0053	0.0053
0.0053	0.0053	0.0053	0.0053				
	Tire:	0.0020	0.0020	0.0020	0.0020	0.0022	0.0020
0.0020	0.0065	0.0010	0.0024				
	Total PM:	0.0115	0.0117	0.0120	0.0118	0.0621	0.1353
0.0929	0.2774	0.0206	0.0357				
	SO2:	0.0075	0.0096	0.0126	0.0104	0.0186	0.0032
0.0056	0.0133	0.0036	0.0098				
	NH3:	0.1016	0.1012	0.1003	0.1010	0.0451	0.0068
0.0068	0.0270	0.0113	0.0924				

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2020 July

RUN DATA

NO REFUELING :
EXPRESS HC AS VOC :
MIN/MAX TEMP : 65.5 85.5
ABSOLUTE HUMIDITY : 87.3
CLOUD COVER : 0.34
SUNRISE/SUNSET : 6 8
REG DIST : c:\I98\m6\IN_grp3.d
FUEL RVP : 9.0

SCENARIO RECORD : ~ 3.0 NON-RAMP
AVERAGE SPEED : 3.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~ 5.0 NON-RAMP
AVERAGE SPEED : 5.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~10.0 NON-RAMP
AVERAGE SPEED : 10.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~15.0 NON-RAMP
AVERAGE SPEED : 15.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMGDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~20.0 NON-RAMP
AVERAGE SPEED : 20.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~25.0 NON-RAMP
AVERAGE SPEED : 25.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~30.0 NON-RAMP
AVERAGE SPEED : 30.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~35.0 NON-RAMP
AVERAGE SPEED : 35.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~40.0 NON-RAMP
AVERAGE SPEED : 40.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~45.0 NON-RAMP

AVERAGE SPEED : 45.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~50.0 NON-RAMP
AVERAGE SPEED : 50.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~55.0 NON-RAMP
AVERAGE SPEED : 55.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~60.0 NON-RAMP
AVERAGE SPEED : 60.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~65.0 NON-RAMP
AVERAGE SPEED : 65.0 NON-RAMP
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~ 3.0 ARTERIAL
AVERAGE SPEED : 3.0 ARTERIAL
CALENDAR YEAR : 2020

EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~ 5.0 ARTERIAL
AVERAGE SPEED : 5.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~10.0 ARTERIAL
AVERAGE SPEED : 10.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~15.0 ARTERIAL
AVERAGE SPEED : 15.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~20.0 ARTERIAL
AVERAGE SPEED : 20.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~25.0 ARTERIAL
AVERAGE SPEED : 25.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7

PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~30.0 ARTERIAL
AVERAGE SPEED : 30.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~35.0 ARTERIAL
AVERAGE SPEED : 35.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~40.0 ARTERIAL
AVERAGE SPEED : 40.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~45.0 ARTERIAL
AVERAGE SPEED : 45.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~50.0 ARTERIAL
AVERAGE SPEED : 50.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7

PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~55.0 ARTERIAL
AVERAGE SPEED : 55.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~60.0 ARTERIAL
AVERAGE SPEED : 60.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~65.0 ARTERIAL
AVERAGE SPEED : 65.0 ARTERIAL
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\fvmt.def
CALENDAR YEAR : 2020
EVALUATION MONTH : 7
PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\rmpvmt.def
CALENDAR YEAR : 2020
EVALUATION MONTH : 7

PARTICULATE EF : c:\I98\m6\PMGZML.CSV c:\I98\m6\PMGDR1.CSV
c:\I98\m6\PMGDR2.CSV c:\I98\m6\PMDZML.CSV c:\I98\m6\PMDDR1.CSV
c:\I98\m6\PMDDR2.CSV
PARTICLE SIZE : 2.50
DIESEL SULFUR : 15.00

END OF RUN

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
 EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
 - RUN TIME: 11:03:56 29NOV06

EMISSIONS IN KILOGRAMS PER DAY
 +++ ALTERNATIVE IS:20A
 MOBILE6 INPUT FILE :

 Marion County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	100.	2522.	160.	4.	29.
OTH. PRINC. ART. (2)	24.	296.	16.	0.	2.
MINOR ARTERIAL (6)	67.	1252.	77.	3.	17.
CENCON & INTRAS (9)	10.	127.	7.	0.	2.
SUBTOTAL	202.	4197.	260.	8.	51.
-----URBAN-----					
INTERSTATE (11)	4276.	97910.	6107.	183.	1209.
OTH. FWY & XWAY (12)	301.	5960.	361.	12.	78.
OTH. PRINC. ART. (14)	2536.	47105.	2871.	98.	647.
MINOR ARTERIAL (16)	2599.	47972.	2937.	101.	667.
CENCON & INTRAS (19)	1332.	16469.	975.	32.	207.
SUBTOTAL	11043.	215416.	13251.	425.	2808.
---TOTAL---	11246.	219613.	13511.	432.	2859.
(TONS)	12.39	241.86	14.88	0.48	3.15

DAILY TRAVEL STATS

 Marion County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	317717.	5447.	58.32
OTH. PRINC. ART. (2)	26438.	3296.	8.02
MINOR ARTERIAL (6)	186932.	5316.	35.16
CENCON & INTRAS (9)	17197.	860.	20.00
SUBTOTAL	548285.	14919.	36.75
-----URBAN-----			
INTERSTATE (11)	13043917.	272995.	47.78
OTH. FWY & XWAY (12)	843711.	23265.	36.27
OTH. PRINC. ART. (14)	7038804.	242031.	29.08
MINOR ARTERIAL (16)	7191019.	207822.	34.60
CENCON & INTRAS (19)	2235261.	149009.	15.00
SUBTOTAL	30352698.	895121.	33.91
TOTAL	30900982.	910041.	33.96

Hamilton County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	160.	3746.	234.	7.	46.
OTH. PRINC. ART. (2)	377.	7667.	468.	15.	102.
MINOR ARTERIAL (6)	121.	2365.	143.	5.	32.
CENCON & INTRAS (9)	186.	2294.	136.	4.	29.
SUBTOTAL	843.	16072.	981.	32.	209.
-----URBAN-----					
INTERSTATE (11)	296.	7076.	443.	13.	86.
OTH.FWY & XWAY (12)	478.	10254.	635.	20.	132.
OTH. PRINC. ART. (14)	427.	8443.	511.	17.	114.
MINOR ARTERIAL (16)	453.	8647.	525.	18.	118.
CENCON & INTRAS (19)	373.	4611.	273.	9.	58.
SUBTOTAL	2027.	39030.	2387.	77.	508.
---TOTAL---	2870.	55102.	3368.	108.	717.
(TONS)	3.16	60.68	3.71	0.12	0.79

DAILY TRAVEL STATS

Hamilton County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	494584.	9353.	52.88
OTH. PRINC. ART. (2)	1102512.	26430.	41.71
MINOR ARTERIAL (6)	349160.	8830.	39.54
CENCON & INTRAS (9)	311367.	15568.	20.00
SUBTOTAL	2257624.	60180.	37.51
-----URBAN-----			
INTERSTATE (11)	923351.	16976.	54.39
OTH.FWY & XWAY (12)	1425661.	31672.	45.01
OTH. PRINC. ART. (14)	1228808.	31243.	39.33
MINOR ARTERIAL (16)	1275772.	34641.	36.83
CENCON & INTRAS (19)	625777.	41227.	15.18
SUBTOTAL	5479366.	155760.	35.18
TOTAL	7736982.	215940.	35.83

 Johnson County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	275.	6336.	394.	12.	79.
OTH. PRINC. ART. (2)	303.	6567.	399.	13.	84.
MINOR ARTERIAL (6)	62.	1315.	79.	3.	17.
CENCON & INTRAS (9)	176.	2175.	129.	4.	27.
SUBTOTAL	816.	16393.	1001.	31.	207.
-----URBAN-----					
INTERSTATE (11)	173.	4482.	289.	8.	51.
OTH. FWY & XWAY (12)	53.	1346.	86.	2.	16.
OTH. PRINC. ART. (14)	220.	4427.	267.	9.	60.
MINOR ARTERIAL (16)	184.	3494.	213.	7.	48.
CENCON & INTRAS (19)	168.	2081.	123.	4.	26.
SUBTOTAL	799.	15830.	978.	30.	201.
---TOTAL---	1615.	32222.	1979.	62.	408.
(TONS)	1.78	35.49	2.18	0.07	0.45

DAILY TRAVEL STATS

 Johnson County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	847113.	16420.	51.59
OTH. PRINC. ART. (2)	908197.	19779.	45.92
MINOR ARTERIAL (6)	185532.	4144.	44.77
CENCON & INTRAS (9)	295143.	14757.	20.00
SUBTOTAL	2235985.	55100.	40.58
-----URBAN-----			
INTERSTATE (11)	552146.	8975.	61.52
OTH. FWY & XWAY (12)	168203.	2803.	60.00
OTH. PRINC. ART. (14)	642813.	15616.	41.16
MINOR ARTERIAL (16)	519294.	14111.	36.80
CENCON & INTRAS (19)	282466.	18831.	15.00
SUBTOTAL	2164921.	60336.	35.88
TOTAL	4400908.	115436.	38.12

Hendricks County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	261.	6703.	431.	12.	77.
OTH. PRINC. ART. (2)	249.	5266.	316.	10.	69.
MINOR ARTERIAL (6)	25.	487.	29.	1.	7.
CENCON & INTRAS (9)	164.	2023.	120.	4.	25.
SUBTOTAL	699.	14479.	895.	27.	178.
-----URBAN-----					
INTERSTATE (11)	158.	4051.	261.	7.	47.
OTH. PRINC. ART. (14)	279.	5639.	340.	11.	76.
MINOR ARTERIAL (16)	133.	2645.	159.	5.	36.
CENCON & INTRAS (19)	113.	1403.	83.	3.	18.
SUBTOTAL	683.	13738.	843.	27.	176.
---TOTAL---	1382.	28217.	1739.	53.	354.
(TONS)	1.52	31.08	1.91	0.06	0.39

DAILY TRAVEL STATS

Hendricks County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	830651.	13640.	60.90
OTH. PRINC. ART. (2)	742273.	16568.	44.80
MINOR ARTERIAL (6)	72407.	1844.	39.26
CENCON & INTRAS (9)	274511.	13725.	20.00
SUBTOTAL	1919842.	45777.	41.94
-----URBAN-----			
INTERSTATE (11)	501788.	8254.	60.80
OTH. PRINC. ART. (14)	817634.	19595.	41.73
MINOR ARTERIAL (16)	386937.	9439.	40.99
CENCON & INTRAS (19)	190466.	12683.	15.02
SUBTOTAL	1896824.	49970.	37.96
TOTAL	3816666.	95746.	39.86

Hancock County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
OTH. PRINC. ART. (2)	175.	3606.	217.	7.	48.
MINOR ARTERIAL (6)	35.	688.	42.	1.	9.
CENCON & INTRAS (9)	90.	1118.	66.	2.	14.
SUBTOTAL	301.	5412.	325.	11.	71.
-----URBAN-----					
INTERSTATE (11)	419.	10517.	667.	19.	123.
OTH. PRINC. ART. (14)	183.	3678.	221.	7.	49.
MINOR ARTERIAL (16)	112.	2161.	131.	4.	30.
CENCON & INTRAS (19)	102.	1259.	74.	2.	16.
SUBTOTAL	816.	17615.	1094.	33.	217.
---TOTAL---	1117.	23026.	1418.	44.	288.
(TONS)	1.23	25.36	1.56	0.05	0.32

DAILY TRAVEL STATS

Hancock County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
OTH. PRINC. ART. (2)	515030.	12138.	42.43
MINOR ARTERIAL (6)	102120.	2617.	39.02
CENCON & INTRAS (9)	151713.	7586.	20.00
SUBTOTAL	768863.	22340.	34.42
-----URBAN-----			
INTERSTATE (11)	1326175.	22470.	59.02
OTH. PRINC. ART. (14)	525448.	13203.	39.80
MINOR ARTERIAL (16)	320263.	8475.	37.79
CENCON & INTRAS (19)	170810.	11387.	15.00
SUBTOTAL	2342696.	55536.	42.18
TOTAL	3111558.	77876.	39.96

 Shelby County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	340.	8398.	531.	15.	99.
OTH. PRINC. ART. (2)	158.	3279.	197.	7.	43.
MINOR ARTERIAL (6)	4.	91.	6.	0.	1.
CENCON & INTRAS (9)	93.	1152.	68.	2.	14.
SUBTOTAL	596.	12920.	801.	24.	158.
-----URBAN-----					
INTERSTATE (11)	157.	3906.	247.	7.	46.
OTH. PRINC. ART. (14)	46.	926.	56.	2.	13.
MINOR ARTERIAL (16)	17.	338.	20.	1.	5.
CENCON & INTRAS (19)	33.	409.	24.	1.	5.
SUBTOTAL	253.	5579.	347.	10.	68.
---TOTAL---	849.	18499.	1149.	34.	227.
(TONS)	0.94	20.37	1.27	0.04	0.25

DAILY TRAVEL STATS

 Shelby County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	1071553.	18645.	57.47
OTH. PRINC. ART. (2)	467892.	10826.	43.22
MINOR ARTERIAL (6)	13006.	304.	42.72
CENCON & INTRAS (9)	156353.	7999.	19.55
SUBTOTAL	1708804.	37774.	45.24
-----URBAN-----			
INTERSTATE (11)	495562.	8496.	58.33
OTH. PRINC. ART. (14)	135091.	3307.	40.85
MINOR ARTERIAL (16)	49794.	1240.	40.17
CENCON & INTRAS (19)	55658.	3618.	15.39
SUBTOTAL	736105.	16660.	44.18
TOTAL	2444910.	54434.	44.91

Boone County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	502.	12733.	813.	22.	148.
OTH. PRINC. ART. (2)	228.	4841.	290.	10.	63.
MINOR ARTERIAL (6)	20.	398.	24.	1.	5.
CENCON & INTRAS (9)	139.	1713.	101.	3.	22.
SUBTOTAL	889.	19685.	1228.	36.	238.
-----URBAN-----					
OTH. PRINC. ART. (14)	56.	1134.	68.	2.	15.
MINOR ARTERIAL (16)	20.	363.	22.	1.	5.
CENCON & INTRAS (19)	27.	337.	20.	1.	4.
SUBTOTAL	103.	1833.	110.	4.	24.
---TOTAL---	992.	21518.	1338.	40.	262.
(TONS)	1.09	23.70	1.47	0.04	0.29

DAILY TRAVEL STATS

Boone County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	1591957.	26562.	59.93
OTH. PRINC. ART. (2)	683800.	15009.	45.56
MINOR ARTERIAL (6)	58734.	1466.	40.05
CENCON & INTRAS (9)	232467.	11623.	20.00
SUBTOTAL	2566956.	54661.	46.96
-----URBAN-----			
OTH. PRINC. ART. (14)	164110.	3871.	42.39
MINOR ARTERIAL (16)	53885.	1735.	31.05
CENCON & INTRAS (19)	45703.	3047.	15.00
SUBTOTAL	389601.	10454.	37.27
TOTAL	2956558.	65116.	45.40

Morgan County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	139.	3547.	227.	6.	41.
OTH. PRINC. ART. (2)	466.	10796.	675.	20.	132.
MINOR ARTERIAL (6)	33.	643.	39.	1.	9.
CENCON & INTRAS (9)	172.	2130.	126.	4.	27.
SUBTOTAL	810.	17115.	1067.	32.	209.
-----URBAN-----					
OTH. PRINC. ART. (14)	88.	1986.	122.	4.	25.
MINOR ARTERIAL (16)	10.	200.	12.	0.	3.
CENCON & INTRAS (19)	18.	226.	13.	0.	3.
SUBTOTAL	116.	2412.	147.	5.	30.
---TOTAL---	925.	19527.	1214.	36.	239.
(TONS)	1.02	21.51	1.34	0.04	0.26

DAILY TRAVEL STATS

Morgan County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	440966.	7279.	60.58
OTH. PRINC. ART. (2)	1426369.	28150.	50.67
MINOR ARTERIAL (6)	95338.	2408.	39.60
CENCON & INTRAS (9)	289051.	14452.	20.00
SUBTOTAL	2251725.	52289.	43.06
-----URBAN-----			
OTH. PRINC. ART. (14)	267336.	5393.	49.57
MINOR ARTERIAL (16)	29360.	721.	40.70
CENCON & INTRAS (19)	30615.	2041.	15.00
SUBTOTAL	327311.	8156.	40.13
TOTAL	2579036.	60444.	42.67

 Madison County

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	331.	7512.	465.	14.	94.
OTH. PRINC. ART. (2)	340.	7127.	427.	14.	94.
MINOR ARTERIAL (6)	4.	83.	5.	0.	1.
CENCON & INTRAS (9)	176.	2231.	132.	4.	28.
SUBTOTAL	852.	16953.	1029.	33.	217.
-----URBAN-----					
INTERSTATE (11)	82.	1902.	118.	4.	23.
OTH. PRINC. ART. (14)	303.	5963.	360.	12.	81.
CENCON & INTRAS (19)	144.	1781.	105.	3.	22.
SUBTOTAL	529.	9646.	583.	19.	127.
---TOTAL---	1380.	26599.	1613.	52.	344.
(TONS)	1.52	29.29	1.78	0.06	0.38

DAILY TRAVEL STATS

 Madison County

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	1015397.	20240.	50.17
OTH. PRINC. ART. (2)	1011269.	22695.	44.56
MINOR ARTERIAL (6)	12258.	304.	40.28
CENCON & INTRAS (9)	303064.	14675.	20.65
SUBTOTAL	2341989.	57914.	40.44
-----URBAN-----			
INTERSTATE (11)	253336.	4798.	52.80
OTH. PRINC. ART. (14)	875248.	21981.	39.82
CENCON & INTRAS (19)	241703.	16114.	15.00
SUBTOTAL	1370288.	42893.	31.95
TOTAL	3712276.	100807.	36.83

 Total Model Area

HPMS TYPE	VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
-----RURAL-----					
INTERSTATE (1)	2108.	51498.	3255.	93.	613.
OTH. PRINC. ART. (2)	2320.	49445.	3004.	96.	638.
MINOR ARTERIAL (6)	373.	7322.	443.	15.	100.
CENCON & INTRAS (9)	1206.	14962.	885.	29.	188.
SUBTOTAL	6007.	123226.	7587.	233.	1539.
-----URBAN-----					
INTERSTATE (11)	5560.	129843.	8133.	239.	1584.
OTH.FWY & XWAY (12)	832.	17560.	1083.	34.	226.
OTH. PRINC. ART. (14)	4138.	79301.	4816.	163.	1079.
MINOR ARTERIAL (16)	3528.	65819.	4020.	138.	911.
CENCON & INTRAS (19)	2311.	28575.	1691.	55.	360.
SUBTOTAL	16369.	321097.	19742.	629.	4160.
---TOTAL---	22376.	444322.	27329.	862.	5699.
(TONS)	24.64	489.34	30.10	0.95	6.28

DAILY TRAVEL STATS

 Total Model Area

HPMS TYPE	DAILY VMT	DAILY VHT	AVERAGE SPEED
-----RURAL-----			
INTERSTATE (1)	6609938.	117586.	56.21
OTH. PRINC. ART. (2)	6883778.	154890.	44.44
MINOR ARTERIAL (6)	1075487.	27234.	39.49
CENCON & INTRAS (9)	2030867.	101246.	20.06
SUBTOTAL	16600066.	400955.	41.40
-----URBAN-----			
INTERSTATE (11)	17222168.	344765.	49.95
OTH.FWY & XWAY (12)	2437574.	57740.	42.22
OTH. PRINC. ART. (14)	11695296.	356241.	32.83
MINOR ARTERIAL (16)	9826313.	278183.	35.32
CENCON & INTRAS (19)	3878460.	257956.	15.04
SUBTOTAL	45059808.	1294886.	34.80
TOTAL	61659872.	1695841.	36.36

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
 EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
 - RUN TIME: 11:03:56 29NOV06

EMISSIONS IN KILOGRAMS PER DAY
 +++ ALTERNATIVE IS:20A
 MOBILE6 INPUT FILE :

 Marion County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CBD	(1)	542.	10127.	625.	21.	136.
CDB FRINGE	(2)	5076.	97689.	5989.	196.	1299.
RESIDENTIAL	(3)	5412.	107244.	6615.	207.	1369.
RURAL	(5)	216.	4552.	282.	8.	55.
---TOTAL---		11246.	219613.	13511.	432.	2859.
(TONS)		12.39	241.86	14.88	0.48	3.15

 Marion County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	4352.	99980.	6257.	187.	1236.
EXPRESSWAY	(2)	203.	3741.	228.	8.	51.
2-WAY ART w/prk	(3)	2609.	48034.	2942.	101.	668.
ONE-WAY ARTERIAL	(4)	289.	5279.	324.	11.	73.
CENTROID CONNECT	(5)	1342.	16594.	982.	32.	209.
2-WAY ART wo/prk	(6)	2333.	43410.	2640.	90.	593.
FREEWAY RAMPS	(7)	118.	2575.	137.	4.	29.
---TOTAL---		11246.	219613.	13511.	432.	2859.
(TONS)		12.39	241.86	14.88	0.48	3.15

DAILY TRAVEL STATS

 Marion County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CBD	(1)	1464403.	45325.	32.31
CDB FRINGE	(2)	14014690.	397779.	35.23
RESIDENTIAL	(3)	14829922.	451278.	32.86
RURAL	(5)	591972.	15659.	37.80
TOTAL		30900982.	910041.	33.96

 Marion County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	13332008.	265500.	50.21
EXPRESSWAY	(2)	550380.	16553.	33.25
2-WAY ART w/prk	(3)	7208792.	209327.	34.44

ONE-WAY ARTERIAL (4)	792856.	23576.	33.63
CENTROID CONNECT (5)	2252108.	149857.	15.03
2-WAY ART wo/prk (6)	6455881.	225909.	28.58
FREEWAY RAMPS (7)	308976.	19319.	15.99
TOTAL	30900982.	910041.	33.96

Hamilton County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CDB FRINGE	(2)	152.	3569.	227.	6.	43.
RESIDENTIAL	(3)	1734.	32927.	2007.	65.	431.
SUBURBAN CBD	(4)	141.	2534.	153.	5.	34.
RURAL	(5)	843.	16072.	981.	32.	209.
---TOTAL---		2870.	55102.	3368.	108.	717.
(TONS)		3.16	60.68	3.71	0.12	0.79

Hamilton County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	771.	18130.	1139.	33.	221.
EXPRESSWAY	(2)	338.	6510.	395.	14.	90.
2-WAY ART w/prk	(3)	470.	8876.	540.	18.	122.
ONE-WAY ARTERIAL	(4)	0.	6.	0.	0.	0.
CENTROID CONNECT	(5)	559.	6905.	409.	13.	87.
2-WAY ART wo/prk	(6)	732.	14675.	885.	30.	197.
---TOTAL---		2870.	55102.	3368.	108.	717.
(TONS)		3.16	60.68	3.71	0.12	0.79

DAILY TRAVEL STATS

Hamilton County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CDB FRINGE	(2)	462285.	9170.	50.41
RESIDENTIAL	(3)	4648098.	134963.	34.44
SUBURBAN CBD	(4)	368984.	11627.	31.74
RURAL	(5)	2257624.	60180.	37.51
TOTAL		7736982.	215940.	35.83

Hamilton County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	2386009.	45339.	52.63
EXPRESSWAY	(2)	968212.	25118.	38.55
2-WAY ART w/prk	(3)	1318841.	36459.	36.17
ONE-WAY ARTERIAL	(4)	853.	19.	45.00
CENTROID CONNECT	(5)	937144.	56796.	16.50
2-WAY ART wo/prk	(6)	2125932.	52210.	40.72
TOTAL		7736982.	215940.	35.83

 Johnson County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CDB FRINGE	(2)	56.	1014.	61.	2.	14.
RESIDENTIAL	(3)	669.	13516.	839.	26.	169.
SUBURBAN CBD	(4)	74.	1300.	78.	3.	17.
RURAL	(5)	816.	16393.	1001.	31.	207.
---TOTAL---		1615.	32222.	1979.	62.	408.
(TONS)		1.78	35.49	2.18	0.07	0.45

 Johnson County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	539.	13119.	830.	24.	156.
2-WAY ART w/prk	(3)	246.	4809.	292.	10.	65.
CENTROID CONNECT	(5)	344.	4256.	252.	8.	54.
2-WAY ART wo/prk	(6)	486.	10039.	605.	20.	133.
---TOTAL---		1615.	32222.	1979.	62.	408.
(TONS)		1.78	35.49	2.18	0.07	0.45

DAILY TRAVEL STATS

Johnson County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CDB FRINGE	(2)	149126.	4508.	33.08
RESIDENTIAL	(3)	1827839.	49526.	36.91
SUBURBAN CBD	(4)	187957.	6303.	29.82
RURAL	(5)	2235985.	55100.	40.58
TOTAL		4400908.	115436.	38.12

Johnson County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1686884.	30189.	55.88
2-WAY ART w/prk	(3)	704826.	18255.	38.61
CENTROID CONNECT	(5)	577609.	33588.	17.20
2-WAY ART wo/prk	(6)	1431588.	33405.	42.86
TOTAL		4400908.	115436.	38.12

Hendricks County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	683.	13722.	842.	27.	176.
RURAL	(5)	700.	14495.	896.	27.	178.
---TOTAL---		1382.	28217.	1739.	53.	354.
(TONS)		1.52	31.08	1.91	0.06	0.39

Hendricks County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	419.	10755.	692.	19.	124.
2-WAY ART w/prk	(3)	117.	2297.	139.	5.	31.
CENTROID CONNECT	(5)	277.	3423.	203.	7.	43.
2-WAY ART wo/prk	(6)	569.	11742.	705.	24.	156.
---TOTAL---		1382.	28217.	1739.	53.	354.
(TONS)		1.52	31.08	1.91	0.06	0.39

DAILY TRAVEL STATS

Hendricks County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	1894422.	49914.	37.95
RURAL	(5)	1922243.	45833.	41.94
TOTAL		3816666.	95746.	39.86

Hendricks County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1332438.	21893.	60.86
2-WAY ART w/prk	(3)	339417.	8526.	39.81
CENTROID CONNECT	(5)	464630.	26400.	17.60
2-WAY ART wo/prk	(6)	1680181.	38927.	43.16
TOTAL		3816666.	95746.	39.86

Hancock County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	804.	17397.	1081.	32.	214.
SUBURBAN CBD	(4)	12.	218.	13.	0.	3.
RURAL	(5)	301.	5412.	325.	11.	71.
---TOTAL---		1117.	23026.	1418.	44.	288.
(TONS)		1.23	25.36	1.56	0.05	0.32

Hancock County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	419.	10517.	667.	19.	123.
2-WAY ART w/prk	(3)	148.	2849.	173.	6.	39.
CENTROID CONNECT	(5)	192.	2376.	141.	5.	30.
2-WAY ART wo/prk	(6)	358.	7284.	438.	15.	96.
---TOTAL---		1117.	23026.	1418.	44.	288.
(TONS)		1.23	25.36	1.56	0.05	0.32

DAILY TRAVEL STATS

Hancock County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	2311691.	54610.	42.33
SUBURBAN CBD	(4)	31005.	925.	33.50
RURAL	(5)	768863.	22340.	34.42
TOTAL		3111558.	77876.	39.96

Hancock County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1326175.	22470.	59.02
2-WAY ART w/prk	(3)	422383.	11092.	38.08
CENTROID CONNECT	(5)	322523.	18973.	17.00
2-WAY ART wo/prk	(6)	1040478.	25341.	41.06
TOTAL		3111558.	77876.	39.96

 Shelby County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	256.	5597.	349.	10.	68.
SUBURBAN CBD	(4)	3.	62.	4.	0.	1.
RURAL	(5)	590.	12840.	797.	24.	157.
---TOTAL---		849.	18499.	1149.	34.	227.
(TONS)		0.94	20.37	1.27	0.04	0.25

 Shelby County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	497.	12304.	778.	22.	145.
2-WAY ART w/prk	(3)	18.	370.	22.	1.	5.
CENTROID CONNECT	(5)	125.	1546.	91.	3.	19.
2-WAY ART wo/prk	(6)	209.	4279.	257.	9.	57.
---TOTAL---		849.	18499.	1149.	34.	227.
(TONS)		0.94	20.37	1.27	0.04	0.25

DAILY TRAVEL STATS

 Shelby County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	738122.	17148.	43.04
SUBURBAN CBD	(4)	8878.	238.	37.33
RURAL	(5)	1697910.	37048.	45.83
TOTAL		2444910.	54434.	44.91

 Shelby County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1567115.	27141.	57.74
2-WAY ART w/prk	(3)	53833.	1307.	41.17
CENTROID CONNECT	(5)	209811.	11563.	18.14
2-WAY ART wo/prk	(6)	614151.	14423.	42.58
TOTAL		2444910.	54434.	44.91

Boone County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	101.	1785.	107.	4.	24.
SUBURBAN CBD	(4)	2.	48.	3.	0.	1.
RURAL	(5)	889.	19685.	1228.	36.	238.
---TOTAL---		992.	21518.	1338.	40.	262.
(TONS)		1.09	23.70	1.47	0.04	0.29

Boone County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	502.	12733.	813.	22.	148.
2-WAY ART w/prk	(3)	40.	760.	46.	2.	10.
CENTROID CONNECT	(5)	166.	2050.	121.	4.	26.
2-WAY ART wo/prk	(6)	284.	5975.	358.	12.	79.
---TOTAL---		992.	21518.	1338.	40.	262.
(TONS)		1.09	23.70	1.47	0.04	0.29

DAILY TRAVEL STATS

Boone County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	382845.	10273.	37.27
SUBURBAN CBD	(4)	6756.	181.	37.32
RURAL	(5)	2566956.	54661.	46.96
TOTAL		2956558.	65116.	45.40

Boone County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1717859.	28363.	60.57
2-WAY ART w/prk	(3)	112619.	3202.	35.17
CENTROID CONNECT	(5)	278170.	14670.	18.96
2-WAY ART wo/prk	(6)	847910.	18880.	44.91
TOTAL		2956558.	65116.	45.40

Morgan County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	115.	2402.	147.	5.	30.
SUBURBAN CBD	(4)	0.	9.	1.	0.	0.
RURAL	(5)	810.	17115.	1067.	32.	209.
---TOTAL---		925.	19527.	1214.	36.	239.
(TONS)		1.02	21.51	1.34	0.04	0.26

Morgan County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	360.	9270.	597.	16.	106.
2-WAY ART w/prk	(3)	43.	843.	51.	2.	12.
CENTROID CONNECT	(5)	191.	2355.	139.	5.	30.
2-WAY ART wo/prk	(6)	332.	7059.	427.	14.	92.
---TOTAL---		925.	19527.	1214.	36.	239.
(TONS)		1.02	21.51	1.34	0.04	0.26

DAILY TRAVEL STATS

Morgan County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	326001.	8119.	40.15
SUBURBAN CBD	(4)	1310.	36.	36.20
RURAL	(5)	2251725.	52289.	43.06
TOTAL		2579036.	60444.	42.67

Morgan County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1145230.	18707.	61.22
2-WAY ART w/prk	(3)	124698.	3129.	39.85
CENTROID CONNECT	(5)	319666.	16494.	19.38
2-WAY ART wo/prk	(6)	989442.	22115.	44.74
TOTAL		2579036.	60444.	42.67

 Madison County

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
RESIDENTIAL	(3)	507.	9223.	558.	18.	121.
SUBURBAN CBD	(4)	22.	423.	25.	1.	6.
RURAL	(5)	852.	16953.	1029.	33.	217.
---TOTAL---		1380.	26599.	1613.	52.	344.
(TONS)		1.52	29.29	1.78	0.06	0.38

 Madison County

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	413.	9413.	583.	18.	118.
2-WAY ART w/prk	(3)	4.	83.	5.	0.	1.
CENTROID CONNECT	(5)	315.	3894.	230.	7.	49.
2-WAY ART wo/prk	(6)	648.	13209.	794.	27.	176.
---TOTAL---		1380.	26599.	1613.	52.	344.
(TONS)		1.52	29.29	1.78	0.06	0.38

DAILY TRAVEL STATS

 Madison County

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
RESIDENTIAL	(3)	1308654.	41300.	31.69
SUBURBAN CBD	(4)	61634.	1593.	38.70
RURAL	(5)	2341989.	57914.	40.44
TOTAL		3712276.	100807.	36.83

 Madison County

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	1268734.	25038.	50.67
2-WAY ART w/prk	(3)	12258.	304.	40.28
CENTROID CONNECT	(5)	528502.	30453.	17.35
2-WAY ART wo/prk	(6)	1902782.	45011.	42.27
TOTAL		3712276.	100807.	36.83

 Total Model Area

AREA TYPE		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
CBD	(1)	542.	10127.	625.	21.	136.
CDB FRINGE	(2)	5284.	102272.	6277.	205.	1355.
RESIDENTIAL	(3)	10281.	203813.	12545.	394.	2603.
SUBURBAN CBD	(4)	255.	4594.	277.	9.	62.
RURAL	(5)	6015.	123518.	7606.	233.	1542.
---TOTAL---		22376.	444322.	27329.	862.	5699.
(TONS)		24.64	489.34	30.10	0.95	6.28

 Total Model Area

FACILITY		VOC HC	EXHST CO	EXHST NOx	TOTAL PM2.5	NH3
FREEWAY	(1)	8271.	196222.	12356.	359.	2376.
EXPRESSWAY	(2)	541.	10251.	624.	21.	141.
2-WAY ART w/prk	(3)	3697.	68921.	4210.	144.	955.
ONE-WAY ARTERIAL	(4)	289.	5285.	324.	11.	74.
CENTROID CONNECT	(5)	3511.	43399.	2568.	83.	546.
2-WAY ART wo/prk	(6)	5950.	117671.	7110.	239.	1579.
FREEWAY RAMPS	(7)	118.	2575.	137.	4.	29.
---TOTAL---		22376.	444322.	27329.	862.	5699.
(TONS)		24.64	489.34	30.10	0.95	6.28

DAILY TRAVEL STATS

 Total Model Area

AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
CBD	(1)	1464403.	45325.	32.31
CDB FRINGE	(2)	14626100.	411457.	35.55
RESIDENTIAL	(3)	28267596.	817132.	34.59
SUBURBAN CBD	(4)	666524.	20903.	31.89
RURAL	(5)	16635259.	401024.	41.48
TOTAL		61659872.	1695841.	36.36

 Total Model Area

FACILITY TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
FREEWAY	(1)	25762446.	484640.	53.16
EXPRESSWAY	(2)	1518593.	41670.	36.44
2-WAY ART w/prk	(3)	10297655.	291601.	35.31
ONE-WAY ARTERIAL	(4)	793710.	23595.	33.64
CENTROID CONNECT	(5)	5890164.	358794.	16.42
2-WAY ART wo/prk	(6)	17088348.	476222.	35.88
FREEWAY RAMPS	(7)	308976.	19319.	15.99
TOTAL		61659872.	1695841.	36.36