APPENDIX H

2011 BASE-YEAR EMISSIONS INVENTORY FOR INDIANA'S PORTION OF THE CINCINNATI HAMILTON, OHIO-KENTUCKY-INDIANA (OH-KY-IN), 2008 8-HOUR OZONE NONATTAINMENT AREA

Lawrenceburg Township, Dearborn County, Indiana

Developed By:
The Indiana Department of Environmental Management

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TABLE OF CONTENTS

1.0 INTRODUCTION **1**

2.0 BACKGROUND **1**

3.0 BASE-YEAR EMISSIONS INVENTORY **2**

3.1 POINT (EGU AND NON-EGU) 2

3.2 NON-POINT 2

3.3 NON-ROAD 3

3.4 ON-ROAD 3

4.0 TEMPORAL ALLOCATION OF ANNUAL EMISSIONS **3**

4.1 SUMMARY AND DETAILED TABLES 4

TABLES

Table 4.1 Tons Ozone Season Day Emissions by Data Category 4

Table 4.2 Tons per Ozone Season Day Emissions by SCC Level One 4

Table 4.3 Tons per Ozone Season Day Emissions by SCC Level Two 5

Table 4.4 Tons per Ozone Season Day Emissions by SCC 7

Table 4.5 Point Source Emissions (Tons per Year) 16

Table 4.6 Point Source Emissions (Tons per Ozone Season Day) 16

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2011 BASE-YEAR EMISSIONS INVENTORY FOR INDIANA'S PORTION OF THE CINCINNATI-HAMILTON, OHIO-KENTUCKY-INDIANA (OH-KY-IN), 2008 8-HOUR OZONE NONATTAINMENT AREA

LAWRENCEBURG TOWNSHIP, DEARBORN COUNTY, INDIANA

1.0 INTRODUCTION

On May 21, 2012, United States Environmental Protection Agency (U.S. EPA) designated Lawrenceburg Township in Dearborn County, Indiana as a portion of the Cincinnati-Hamilton, Ohio-Kentucky-Indiana (OH-KY-IN), 2008 8-Hour Ozone Nonattainment Area (77 FR 30118) and classified the area "Marginal" under Subpart 2 of Part D of Title I of the Clean Air Act (CAA). The CAA requires areas designated nonattainment for the National Ambient Air Quality Standards (NAAQS) for ozone to develop SIPs to expeditiously attain and maintain the standard.

Indiana is submitting this 2011 Base-Year Emissions Inventory for Indiana's Portion of the Cincinnati-Hamilton, OH-KY-IN, area in accordance with Section 182(a)(1) of the 1990 Clean Air Act Amendments (CAAA) and is part of the Request for Redesignation and Maintenance Plan for Attainment of Indiana's portion of the Cincinnati-Hamilton, OH-KY-IN, 2008 8-Hour Ozone Nonattainment Area.

2.0 BACKGROUND

The Cincinnati-Hamilton, OH-KY-IN area (which included Lawrenceburg Township, Dearborn County, Indiana) was subjected to nonattainment area rulemaking under the 1997 8-hour ozone standard. Indiana submitted the final Request for Redesignation and Maintenance Plan for Ozone Attainment of the 1997 8-Hour Ozone Nonattainment Area for Indiana's portion of the Cincinnati-Hamilton, OH-KY-IN, nonattainment area, Lawrenceburg Township in Dearborn County, Indiana on January 21, 2010. U.S. EPA subsequently redesignated Lawrenceburg Township to attainment and classified it as maintenance under the 1997 8-hour ozone standard on May 11, 2010.

On March 27, 2008, U.S. EPA significantly strengthened the 8-hour ozone standard to a level of 0.075 parts per million (ppm). An exceedance of the 2008 8-hour ozone NAAQS occurs when a monitor measures ozone above 0.075 ppm on average for an 8-hour period. A violation occurs when the average of the annual fourth highest daily maximum 8-hour ozone values over three consecutive years is greater than 0.075 ppm. This three-year average is termed the "design value" for the monitor. The design value for the nonattainment area is the highest monitor design value in the area. This designation subjected the area to requirements, including development of a plan to reduce oxides of nitrogen (NO_x) and volatile organic compounds (VOCs) emissions and a demonstration that the area would meet the 2008 8-hour ozone NAAQS by July 20, 2015. However, in the 2008 Ozone Implementation Rule, U.S. EPA extended the compliance date to December 31, 2015.[1]

[1] http://www.gpo.gov/fdsys/pkg/FR-2013-06-06/pdf/2013-13233.pdf

3.0 BASE-YEAR EMISSIONS INVENTORY

U.S. EPA's proposed 2008 ozone standard SIP requirements rule recommends states use 2011 as the base-year to fulfill the Emission Inventory requirements. The year 2011 is also a required reporting year for U.S. EPA's National Emissions Inventory (NEI) submission under the existing Air Emission Reporting Requirements Rule. NEIs are a collaborative process between U.S. EPA, states, localities, and tribes (S/L/T) to build a comprehensive national inventory.

In consultation with U.S. EPA, Kentucky, Ohio, and other stakeholders, the base-year of 2011 was selected for this demonstration. The Indiana Department of Environmental Management (IDEM) has prepared a comprehensive and accurate inventory of ozone precursor emissions (i.e. NO_x and VOCs) for Dearborn County, Indiana organized by anthropogenic source categories: electric-generating units (EGUs), non-EGUs, non-point (area), non-road, and on-road. IDEM's Office of Air Quality (OAQ) collects data, calculates, and stores emissions for point sources on an annual basis in the Emission Inventory Tracking System (EMITS). These point source emissions are uploaded to the NEI each year. Indiana has elected to use U.S. EPA's 2011 National Emissions Inventory (NEI)[2] for point, non-point, and non-road (area) anthropogenic emission sources. On-road values were back casted from emission factors produced by U.S. EPA's 2014 version of the MOVES software program. Biogenic emissions are not included in these summaries.

3.1 Point (EGU and Non-EGU)

Indiana submitted point source data through the Emission Inventory System (EIS) and has provided feedback to U.S. EPA on a variety of other estimates. Point Source data was collected through the Indiana's Emission Statement program (326 IAC 2-6). Data is collected electronically or submitted on hardcopy. All data is collated into the Emission Inventory Tracking System developed by the State of Indiana and submitted to U.S. EPA through the EIS Gateway. U.S. EPA has added to this inventory, incorporating data from various sources, such as data submitted to the Clean Air Markets Database, and adding other sources such as airport operations which are now handled as point sources in the database (see Section 3.11 of the "2011 National Emissions Inventory, version 2 Technical Support Document" Attachment 1).

3.2 Non-Point

Nonpoint sources were developed by U.S. EPA with comments provided by the state, see inset from section 3.1.7 U.S. EPA nonpoint data from the "2011 National Emissions Inventory, version 2 Technical Support Document" (Attachment 1);

[2] http://www3.epa.gov/ttn/chief/net/2011inventory.html

> For the 2011 NEI, the U.S. EPA developed emission estimates for many nonpoint sectors in collaboration with a consortium of state and regional planning organizations called the Eastern Regional Technical Advisory Committee (ERTAC, http://www.ertac.us/). This task is referred to by ERTAC as the "Area Source Comparability" project on the ERTAC website, and a subgroup was developed to work on this project. The purpose of the subgroup and project was to agree on methodologies, emission factors, and SCCs for a number of important nonpoint sectors, allowing U.S. EPA to prepare the emissions estimates for all states using the group's final approaches. During the 2011 NEI inventory development cycle, S/L/T agencies could accept the ERTAC/EPA estimates to fulfill their nonpoint emissions reporting requirements. U.S. EPA encouraged S/L/T agencies that did not use U.S. EPA's estimates or tools to improve upon these "default" methodologies and submit further improved data.

Section 3 Stationary sources details the emission estimation methods, sources of data for inputs, where states provided input and how controls were taken into account.

3.3 Non-Road

Nonroad sources were also developed by U.S. EPA using the National Mobile Inventory Model. See Section 4.5 of the "2011 National Emissions Inventory, version 2 Technical Support Document" (Attachment 1) for more information on the inputs and the estimation techniques.

3.4 On-Road

Onroad sources were estimated by the Ohio-Kentucky-Indiana Regional Council of Governments. As stated within the document;

> This report was prepared for the Ohio Environmental Protection Agency (Ohio EPA), the Kentucky Department for Air Quality (KDAQ), and IDEM. The Cincinnati 2008 Ozone Nonattainment Area includes a portion of Dearborn County Indiana, the counties of Boone, Campbell, Kenton in Kentucky, and the counties of Butler, Clermont, Clinton, Hamilton, and Warren in Ohio.

IDEM will be using these estimates for the Emissions Inventory to align with the Conformity Inventories. See Appendix F.

4.0 TEMPORAL ALLOCATION OF ANNUAL EMISSIONS

Indiana has used U.S. EPA's temporal files found on the Emissions Modeling Clearinghouse[3] to estimate the average ozone season day emissions following the guidance from the Greg Stella memo, "Temporal Allocation of Annual Emissions Using EMCH Temporal Profiles".[4]

[3] http://www3.epa.gov/ttn/chief/emch/index.html
[4] http://www3.epa.gov/ttn/chief/emch/temporal/temporal_factors_042902.pdf

4.1 Summary and Detailed Tables

The following tables contain summaries and detailed data on the Dearborn County Inventory. The tables show the tons per ozone season (unless otherwise noted) estimates based upon the U.S. EPA NEI data tables using the above and attached references.

Table 4.1 Tons Ozone Season Day Emissions by Data Category

County	Data Category	NOx	VOC
Dearborn	EGU	15.10	0.27
Dearborn	Nonpoint	0.40	1.75
Dearborn	Nonroad	0.63	0.46
Dearborn	Point	2.71	4.02
Dearborn	Onroad	0.86	1.03

Table 4.2 Tons per Ozone Season Day Emissions by SCC Level One

County	Data Category	SCC Level One	NOx	VOC
Dearborn	EGU	External Combustion Boilers	14.618	0.263
Dearborn	EGU	Internal Combustion Engines	0.481	0.007
Dearborn	Nonpoint	Industrial Processes	0.000	0.004
Dearborn	Nonpoint	Miscellaneous Area Sources	0.001	0.000
Dearborn	Nonpoint	Mobile Sources	0.131	0.006
Dearborn	Nonpoint	Solvent Utilization		0.961
Dearborn	Nonpoint	Stationary Source Fuel Combustion	0.210	0.424
Dearborn	Nonpoint	Storage and Transport		0.234
Dearborn	Nonpoint	Waste Disposal, Treatment, and Recovery	0.057	0.119
Dearborn	Nonroad	Mobile Sources	0.633	0.458
Dearborn	Point	External Combustion Boilers	1.461	0.005
Dearborn	Point	Industrial Processes	0.815	2.572
Dearborn	Point	Internal Combustion Engines	0.432	0.019
Dearborn	Point	Mobile Sources	0.000	0.000
Dearborn	Point	Petroleum and Solvent Evaporation	0.000	1.424
Dearborn	Onroad	Mobile	0.86	1.03

Table 4.3 Tons per Ozone Season Day Emissions by SCC Level Two

County	Data Category	SCC Level One	SCC Level Two	NOx	VOC
Dearborn	EGU	External Combustion Boilers	Electric Generation	14.618	0.263
Dearborn	EGU	Internal Combustion Engines	Electric Generation	0.481	0.007
Dearborn	Nonpoint	Industrial Processes	Food and Kindred Products: SIC 20		0.004
Dearborn	Nonpoint	Industrial Processes	Oil and Gas Exploration and Production	0.000	0.000
Dearborn	Nonpoint	Miscellaneous Area Sources	Agriculture Production - Crops - as nonpoint	0.000	0.000
Dearborn	Nonpoint	Miscellaneous Area Sources	Other Combustion	0.000	0.000
Dearborn	Nonpoint	Mobile Sources	Marine Vessels, Commercial	0.000	0.000
Dearborn	Nonpoint	Mobile Sources	Railroad Equipment	0.131	0.006
Dearborn	Nonpoint	Solvent Utilization	Dry Cleaning		0.001
Dearborn	Nonpoint	Solvent Utilization	Graphic Arts		0.002
Dearborn	Nonpoint	Solvent Utilization	Miscellaneous Non-industrial: Commercial		0.092
Dearborn	Nonpoint	Solvent Utilization	Miscellaneous Non-industrial: Consumer and Commercial		0.574
Dearborn	Nonpoint	Solvent Utilization	Surface Coating		0.293
Dearborn	Nonpoint	Stationary Source Fuel Combustion	Commercial/Institutional	0.082	0.003
Dearborn	Nonpoint	Stationary Source Fuel Combustion	Industrial	0.015	0.001
Dearborn	Nonpoint	Stationary Source Fuel Combustion	Residential	0.112	0.420
Dearborn	Nonpoint	Storage and Transport	Petroleum and Petroleum Product Storage		0.231
Dearborn	Nonpoint	Storage and Transport	Petroleum and Petroleum Product Transport		0.003
Dearborn	Nonpoint	Waste Disposal, Treatment, and Recovery	Open Burning	0.057	0.117
Dearborn	Nonpoint	Waste Disposal, Treatment, and Recovery	Wastewater Treatment		0.003
Dearborn	Nonroad	Mobile Sources	CNG	0.002	0.000
Dearborn	Nonroad	Mobile Sources	LPG	0.024	0.006
Dearborn	Nonroad	Mobile Sources	Off-highway Vehicle Diesel	0.519	0.045
Dearborn	Nonroad	Mobile Sources	Off-highway Vehicle Gasoline, 2-Stroke	0.002	0.081
Dearborn	Nonroad	Mobile Sources	Off-highway Vehicle Gasoline, 4-Stroke	0.050	0.190
Dearborn	Nonroad	Mobile Sources	Pleasure Craft	0.036	0.136

Dearborn	Nonroad	Mobile Sources	Railroad Equipment	0.000	0.000
Dearborn	Point	External Combustion Boilers	Commercial/Institutional	1.461	0.005
Dearborn	Point	External Combustion Boilers	Industrial	0.000	0.000
Dearborn	Point	Industrial Processes	Food and Agriculture		2.545
Dearborn	Point	Industrial Processes	In-process Fuel Use	0.010	0.001
Dearborn	Point	Industrial Processes	Mineral Products	0.805	0.026
Dearborn	Point	Industrial Processes	Miscellaneous Manufacturing Industries		0.000
Dearborn	Point	Internal Combustion Engines	Industrial	0.432	0.019
Dearborn	Point	Mobile Sources	Aircraft	0.000	0.000
Dearborn	Point	Petroleum and Solvent Evaporation	Organic Chemical Storage		0.054
Dearborn	Point	Petroleum and Solvent Evaporation	Organic Solvent Evaporation		0.029
Dearborn	Point	Petroleum and Solvent Evaporation	Petroleum Liquids Storage (non-Refinery)		0.000
Dearborn	Point	Petroleum and Solvent Evaporation	Surface Coating Operations	0.000	1.340
Dearborn	Onroad	Mobile	On Highway	0.86	1.03

Table 4.4 Tons per Ozone Season Day Emissions by SCC

County	Data Category	SCC	NOx	VOC
Dearborn	EGU	10100202	5.406	0.049
Dearborn	EGU	10100203	9.191	0.215
Dearborn	EGU	10100501	0.020	0.000
Dearborn	EGU	20100201	0.481	0.007
Dearborn	Nonpoint	2102001000	0.000	0.000
Dearborn	Nonpoint	2102002000	0.000	0.000
Dearborn	Nonpoint	2102004001	0.000	0.000
Dearborn	Nonpoint	2102004002	0.000	0.000
Dearborn	Nonpoint	2102005000	0.000	0.000
Dearborn	Nonpoint	2102006000	0.014	0.001
Dearborn	Nonpoint	2102007000	0.000	0.000
Dearborn	Nonpoint	2102008000	0.001	0.000
Dearborn	Nonpoint	2102011000	0.000	0.000
Dearborn	Nonpoint	2103001000	0.000	0.000
Dearborn	Nonpoint	2103002000	0.000	0.000
Dearborn	Nonpoint	2103004001	0.001	0.000
Dearborn	Nonpoint	2103004002	0.026	
Dearborn	Nonpoint	2103005000	0.000	0.000
Dearborn	Nonpoint	2103006000	0.051	0.003
Dearborn	Nonpoint	2103007000	0.000	0.000
Dearborn	Nonpoint	2103008000	0.003	0.000
Dearborn	Nonpoint	2103011000	0.000	0.000
Dearborn	Nonpoint	2104001000	0.000	0.000
Dearborn	Nonpoint	2104002000	0.000	0.000
Dearborn	Nonpoint	2104004000	0.003	0.000
Dearborn	Nonpoint	2104006000	0.031	0.002
Dearborn	Nonpoint	2104007000	0.048	0.002
Dearborn	Nonpoint	2104008100	0.002	0.017
Dearborn	Nonpoint	2104008210	0.002	0.037
Dearborn	Nonpoint	2104008220	0.001	0.003
Dearborn	Nonpoint	2104008230	0.000	0.001
Dearborn	Nonpoint	2104008310	0.002	0.045
Dearborn	Nonpoint	2104008320	0.001	0.003
Dearborn	Nonpoint	2104008330	0.000	0.001
Dearborn	Nonpoint	2104008400	0.001	0.000
Dearborn	Nonpoint	2104008510	0.008	0.052
Dearborn	Nonpoint	2104008610	0.007	0.241
Dearborn	Nonpoint	2104008700	0.001	0.009
Dearborn	Nonpoint	2104009000	0.001	0.008

Dearborn	Nonpoint	2104011000	0.003	0.000
Dearborn	Nonpoint	2280002200	0.000	0.000
Dearborn	Nonpoint	2285002006	0.074	0.004
Dearborn	Nonpoint	2285002007	0.057	0.002
Dearborn	Nonpoint	2302002100		0.001
Dearborn	Nonpoint	2302002200		0.002
Dearborn	Nonpoint	2302003000		0.000
Dearborn	Nonpoint	2302003100		0.000
Dearborn	Nonpoint	2302003200		0.000
Dearborn	Nonpoint	2310000220	0.000	0.000
Dearborn	Nonpoint	2310000330	0.000	0.000
Dearborn	Nonpoint	2310000550		0.000
Dearborn	Nonpoint	2310000660	0.000	0.000
Dearborn	Nonpoint	2310010100	0.000	0.000
Dearborn	Nonpoint	2310010200	0.000	0.000
Dearborn	Nonpoint	2310010300		0.000
Dearborn	Nonpoint	2310011000	0.000	0.000
Dearborn	Nonpoint	2310011201		0.000
Dearborn	Nonpoint	2310011501		0.000
Dearborn	Nonpoint	2310011502		0.000
Dearborn	Nonpoint	2310011503		0.000
Dearborn	Nonpoint	2310011505		0.000
Dearborn	Nonpoint	2310021010	0.000	0.000
Dearborn	Nonpoint	2310021030		0.000
Dearborn	Nonpoint	2310021100	0.000	0.000
Dearborn	Nonpoint	2310021202	0.000	0.000
Dearborn	Nonpoint	2310021251	0.000	0.000
Dearborn	Nonpoint	2310021300		0.000
Dearborn	Nonpoint	2310021302	0.000	0.000
Dearborn	Nonpoint	2310021351	0.000	0.000
Dearborn	Nonpoint	2310021400	0.000	0.000
Dearborn	Nonpoint	2310021501		0.000
Dearborn	Nonpoint	2310021502		0.000
Dearborn	Nonpoint	2310021503		0.000
Dearborn	Nonpoint	2310021505		0.000
Dearborn	Nonpoint	2310021506		0.000
Dearborn	Nonpoint	2310021603	0.000	0.000
Dearborn	Nonpoint	2310111100		0.000
Dearborn	Nonpoint	2310111401		0.000
Dearborn	Nonpoint	2310121100		0.000
Dearborn	Nonpoint	2310121401		0.000

Dearborn	Nonpoint	2310121700	0.000	0.000
Dearborn	Nonpoint	2401001000		0.160
Dearborn	Nonpoint	2401005000		0.022
Dearborn	Nonpoint	2401008000		0.000
Dearborn	Nonpoint	2401015000		0.001
Dearborn	Nonpoint	2401020000		0.011
Dearborn	Nonpoint	2401055000		0.003
Dearborn	Nonpoint	2401090000		0.050
Dearborn	Nonpoint	2401100000		0.041
Dearborn	Nonpoint	2401200000		0.004
Dearborn	Nonpoint	2420000000		0.001
Dearborn	Nonpoint	2425000000		0.002
Dearborn	Nonpoint	2460100000		0.129
Dearborn	Nonpoint	2460200000		0.123
Dearborn	Nonpoint	2460400000		0.093
Dearborn	Nonpoint	2460500000		0.065
Dearborn	Nonpoint	2460600000		0.039
Dearborn	Nonpoint	2460800000		0.121
Dearborn	Nonpoint	2460900000		0.005
Dearborn	Nonpoint	2461021000		0.002
Dearborn	Nonpoint	2461022000		0.010
Dearborn	Nonpoint	2461850000		0.080
Dearborn	Nonpoint	2501011011		0.020
Dearborn	Nonpoint	2501011012		0.039
Dearborn	Nonpoint	2501011014		0.002
Dearborn	Nonpoint	2501012011		0.001
Dearborn	Nonpoint	2501012012		0.001
Dearborn	Nonpoint	2501012014		0.003
Dearborn	Nonpoint	2501050120		0.000
Dearborn	Nonpoint	2501055120		0.000
Dearborn	Nonpoint	2501060051		0.000
Dearborn	Nonpoint	2501060052		0.057
Dearborn	Nonpoint	2501060053		0.041
Dearborn	Nonpoint	2501060201		0.051
Dearborn	Nonpoint	2501080050		0.015
Dearborn	Nonpoint	2501080100		0.001
Dearborn	Nonpoint	2505030120		0.003
Dearborn	Nonpoint	2505040120		0.000
Dearborn	Nonpoint	2610000100	0.001	0.005
Dearborn	Nonpoint	2610000400	0.001	0.003
Dearborn	Nonpoint	2610000500	0.034	0.078

Dearborn	Nonpoint	2610030000	0.022	0.031
Dearborn	Nonpoint	2630020000		0.003
Dearborn	Nonpoint	2801500000	0.000	0.000
Dearborn	Nonpoint	2810060100	0.000	0.000
Dearborn	Nonroad	2260002006	0.000	0.001
Dearborn	Nonroad	2260002009	0.000	0.000
Dearborn	Nonroad	2260002021	0.000	0.000
Dearborn	Nonroad	2260002027	0.000	0.000
Dearborn	Nonroad	2260002039	0.000	0.007
Dearborn	Nonroad	2260002054	0.000	0.000
Dearborn	Nonroad	2260003030	0.000	0.000
Dearborn	Nonroad	2260003040	0.000	0.000
Dearborn	Nonroad	2260004015	0.000	0.000
Dearborn	Nonroad	2260004016	0.000	0.001
Dearborn	Nonroad	2260004020	0.000	0.006
Dearborn	Nonroad	2260004021	0.000	0.014
Dearborn	Nonroad	2260004025	0.000	0.007
Dearborn	Nonroad	2260004026	0.000	0.007
Dearborn	Nonroad	2260004030	0.000	0.005
Dearborn	Nonroad	2260004031	0.000	0.007
Dearborn	Nonroad	2260004035	0.000	0.007
Dearborn	Nonroad	2260004036	0.000	0.011
Dearborn	Nonroad	2260004071	0.000	0.000
Dearborn	Nonroad	2260005035	0.000	0.000
Dearborn	Nonroad	2260006005	0.000	0.000
Dearborn	Nonroad	2260006010	0.000	0.003
Dearborn	Nonroad	2260006015	0.000	0.000
Dearborn	Nonroad	2260006035	0.000	0.000
Dearborn	Nonroad	2260007005	0.000	0.002
Dearborn	Nonroad	2265001050	0.004	0.013
Dearborn	Nonroad	2265002003	0.000	0.000
Dearborn	Nonroad	2265002006	0.000	0.000
Dearborn	Nonroad	2265002009	0.000	0.001
Dearborn	Nonroad	2265002015	0.000	0.000
Dearborn	Nonroad	2265002021	0.000	0.000
Dearborn	Nonroad	2265002024	0.000	0.000
Dearborn	Nonroad	2265002027	0.000	0.000
Dearborn	Nonroad	2265002030	0.001	0.002
Dearborn	Nonroad	2265002033	0.000	0.000
Dearborn	Nonroad	2265002039	0.001	0.001
Dearborn	Nonroad	2265002042	0.000	0.000

Dearborn	Nonroad	2265002045	0.000	0.000
Dearborn	Nonroad	2265002054	0.000	0.000
Dearborn	Nonroad	2265002057	0.000	0.000
Dearborn	Nonroad	2265002060	0.001	0.001
Dearborn	Nonroad	2265002066	0.001	0.001
Dearborn	Nonroad	2265002072	0.000	0.000
Dearborn	Nonroad	2265002078	0.000	0.000
Dearborn	Nonroad	2265002081	0.000	0.000
Dearborn	Nonroad	2265003010	0.000	0.000
Dearborn	Nonroad	2265003020	0.001	0.000
Dearborn	Nonroad	2265003030	0.000	0.000
Dearborn	Nonroad	2265003040	0.000	0.000
Dearborn	Nonroad	2265003050	0.000	0.000
Dearborn	Nonroad	2265003060	0.000	0.000
Dearborn	Nonroad	2265003070	0.000	0.000
Dearborn	Nonroad	2265004010	0.003	0.034
Dearborn	Nonroad	2265004011	0.001	0.008
Dearborn	Nonroad	2265004015	0.000	0.003
Dearborn	Nonroad	2265004016	0.001	0.005
Dearborn	Nonroad	2265004025	0.000	0.000
Dearborn	Nonroad	2265004026	0.000	0.000
Dearborn	Nonroad	2265004030	0.000	0.000
Dearborn	Nonroad	2265004031	0.001	0.003
Dearborn	Nonroad	2265004035	0.000	0.003
Dearborn	Nonroad	2265004036	0.001	0.003
Dearborn	Nonroad	2265004040	0.001	0.004
Dearborn	Nonroad	2265004041	0.000	0.000
Dearborn	Nonroad	2265004046	0.000	0.001
Dearborn	Nonroad	2265004051	0.000	0.001
Dearborn	Nonroad	2265004055	0.009	0.036
Dearborn	Nonroad	2265004056	0.002	0.004
Dearborn	Nonroad	2265004066	0.000	0.001
Dearborn	Nonroad	2265004071	0.006	0.015
Dearborn	Nonroad	2265004075	0.000	0.002
Dearborn	Nonroad	2265004076	0.000	0.001
Dearborn	Nonroad	2265005010	0.000	0.000
Dearborn	Nonroad	2265005015	0.000	0.000
Dearborn	Nonroad	2265005020	0.000	0.000
Dearborn	Nonroad	2265005025	0.000	0.000
Dearborn	Nonroad	2265005030	0.000	0.000
Dearborn	Nonroad	2265005035	0.000	0.001

Dearborn	Nonroad	2265005040	0.000	0.001
Dearborn	Nonroad	2265005045	0.000	0.000
Dearborn	Nonroad	2265005055	0.000	0.000
Dearborn	Nonroad	2265005060	0.000	0.000
Dearborn	Nonroad	2265006005	0.006	0.020
Dearborn	Nonroad	2265006010	0.002	0.005
Dearborn	Nonroad	2265006015	0.001	0.002
Dearborn	Nonroad	2265006025	0.002	0.004
Dearborn	Nonroad	2265006030	0.003	0.010
Dearborn	Nonroad	2265006035	0.000	0.000
Dearborn	Nonroad	2265007010	0.000	0.001
Dearborn	Nonroad	2265007015	0.000	0.000
Dearborn	Nonroad	2267002003	0.000	0.000
Dearborn	Nonroad	2267002015	0.000	0.000
Dearborn	Nonroad	2267002021	0.000	0.000
Dearborn	Nonroad	2267002024	0.000	0.000
Dearborn	Nonroad	2267002030	0.000	0.000
Dearborn	Nonroad	2267002033	0.000	0.000
Dearborn	Nonroad	2267002039	0.000	0.000
Dearborn	Nonroad	2267002045	0.000	0.000
Dearborn	Nonroad	2267002054	0.000	0.000
Dearborn	Nonroad	2267002057	0.000	0.000
Dearborn	Nonroad	2267002060	0.000	0.000
Dearborn	Nonroad	2267002066	0.000	0.000
Dearborn	Nonroad	2267002072	0.000	0.000
Dearborn	Nonroad	2267002081	0.000	0.000
Dearborn	Nonroad	2267003010	0.000	0.000
Dearborn	Nonroad	2267003020	0.019	0.005
Dearborn	Nonroad	2267003030	0.000	0.000
Dearborn	Nonroad	2267003040	0.000	0.000
Dearborn	Nonroad	2267003050	0.000	0.000
Dearborn	Nonroad	2267003070	0.000	0.000
Dearborn	Nonroad	2267004066	0.000	0.000
Dearborn	Nonroad	2267005055	0.000	0.000
Dearborn	Nonroad	2267005060	0.000	0.000
Dearborn	Nonroad	2267006005	0.002	0.000
Dearborn	Nonroad	2267006010	0.000	0.000
Dearborn	Nonroad	2267006015	0.000	0.000
Dearborn	Nonroad	2267006025	0.000	0.000
Dearborn	Nonroad	2267006030	0.000	0.000
Dearborn	Nonroad	2267006035	0.000	0.000

Dearborn	Nonroad	2268002081	0.000	0.000
Dearborn	Nonroad	2268003020	0.001	0.000
Dearborn	Nonroad	2268003030	0.000	0.000
Dearborn	Nonroad	2268003040	0.000	0.000
Dearborn	Nonroad	2268003060	0.000	0.000
Dearborn	Nonroad	2268003070	0.000	0.000
Dearborn	Nonroad	2268005055	0.000	0.000
Dearborn	Nonroad	2268005060	0.000	0.000
Dearborn	Nonroad	2268006005	0.001	0.000
Dearborn	Nonroad	2268006010	0.000	0.000
Dearborn	Nonroad	2268006015	0.000	0.000
Dearborn	Nonroad	2268006020	0.000	0.000
Dearborn	Nonroad	2270002003	0.001	0.000
Dearborn	Nonroad	2270002006	0.000	0.000
Dearborn	Nonroad	2270002009	0.000	0.000
Dearborn	Nonroad	2270002015	0.006	0.001
Dearborn	Nonroad	2270002018	0.024	0.001
Dearborn	Nonroad	2270002021	0.001	0.000
Dearborn	Nonroad	2270002024	0.001	0.000
Dearborn	Nonroad	2270002027	0.000	0.000
Dearborn	Nonroad	2270002030	0.004	0.000
Dearborn	Nonroad	2270002033	0.008	0.001
Dearborn	Nonroad	2270002036	0.048	0.004
Dearborn	Nonroad	2270002039	0.001	0.000
Dearborn	Nonroad	2270002042	0.000	0.000
Dearborn	Nonroad	2270002045	0.007	0.000
Dearborn	Nonroad	2270002048	0.012	0.001
Dearborn	Nonroad	2270002051	0.043	0.003
Dearborn	Nonroad	2270002054	0.006	0.000
Dearborn	Nonroad	2270002057	0.006	0.000
Dearborn	Nonroad	2270002060	0.056	0.004
Dearborn	Nonroad	2270002066	0.019	0.004
Dearborn	Nonroad	2270002069	0.056	0.004
Dearborn	Nonroad	2270002072	0.007	0.002
Dearborn	Nonroad	2270002075	0.006	0.000
Dearborn	Nonroad	2270002078	0.000	0.000
Dearborn	Nonroad	2270002081	0.006	0.000
Dearborn	Nonroad	2270003010	0.001	0.000
Dearborn	Nonroad	2270003020	0.006	0.000
Dearborn	Nonroad	2270003030	0.003	0.000
Dearborn	Nonroad	2270003040	0.004	0.000

Dearborn	Nonroad	2270003050	0.000	0.000
Dearborn	Nonroad	2270003060	0.017	0.001
Dearborn	Nonroad	2270003070	0.003	0.000
Dearborn	Nonroad	2270004031	0.000	0.000
Dearborn	Nonroad	2270004036	0.000	0.000
Dearborn	Nonroad	2270004046	0.003	0.000
Dearborn	Nonroad	2270004056	0.001	0.000
Dearborn	Nonroad	2270004066	0.004	0.000
Dearborn	Nonroad	2270004071	0.000	0.000
Dearborn	Nonroad	2270004076	0.000	0.000
Dearborn	Nonroad	2270005010	0.000	0.000
Dearborn	Nonroad	2270005015	0.112	0.010
Dearborn	Nonroad	2270005020	0.012	0.001
Dearborn	Nonroad	2270005025	0.000	0.000
Dearborn	Nonroad	2270005030	0.000	0.000
Dearborn	Nonroad	2270005035	0.001	0.000
Dearborn	Nonroad	2270005040	0.000	0.000
Dearborn	Nonroad	2270005045	0.001	0.000
Dearborn	Nonroad	2270005055	0.002	0.000
Dearborn	Nonroad	2270005060	0.001	0.000
Dearborn	Nonroad	2270006005	0.012	0.001
Dearborn	Nonroad	2270006010	0.003	0.000
Dearborn	Nonroad	2270006015	0.006	0.001
Dearborn	Nonroad	2270006025	0.003	0.001
Dearborn	Nonroad	2270006030	0.000	0.000
Dearborn	Nonroad	2270006035	0.000	0.000
Dearborn	Nonroad	2270007015	0.004	0.000
Dearborn	Nonroad	2282005010	0.008	0.105
Dearborn	Nonroad	2282005015	0.002	0.014
Dearborn	Nonroad	2282010005	0.014	0.016
Dearborn	Nonroad	2282020005	0.013	0.001
Dearborn	Nonroad	2282020010	0.000	0.000
Dearborn	Nonroad	2285002015	0.000	0.000
Dearborn	Nonroad	2285004015	0.000	0.000
Dearborn	Nonroad	2285006015	0.000	0.000
Dearborn	Point	10200602	0.000	0.000
Dearborn	Point	10300205	1.455	0.005
Dearborn	Point	10300401	0.000	0.000
Dearborn	Point	10300601	0.006	0.001
Dearborn	Point	20200102	0.001	0.000
Dearborn	Point	20200252	0.276	0.010

Dearborn	Point	20200253	0.155	0.009
Dearborn	Point	2275050011	0.000	0.000
Dearborn	Point	2275050012	0.000	0.000
Dearborn	Point	30201002		0.019
Dearborn	Point	30201004		0.027
Dearborn	Point	30201010		2.372
Dearborn	Point	30201199		0.004
Dearborn	Point	30288801		0.124
Dearborn	Point	30501402	0.805	0.026
Dearborn	Point	39000699	0.010	0.001
Dearborn	Point	39000989	0.000	0.000
Dearborn	Point	39999989		0.000
Dearborn	Point	40100205		0.029
Dearborn	Point	40200101		0.404
Dearborn	Point	40200401		0.147
Dearborn	Point	40200601	0.000	0.075
Dearborn	Point	40200710		0.000
Dearborn	Point	40200901		0.705
Dearborn	Point	40299998		0.009
Dearborn	Point	40400414		0.000
Dearborn	Point	40700809		0.032
Dearborn	Point	40700810		0.023
Dearborn	Onroad		0.86	1.03

Table 4.5 Point Source Emissions (Tons per Year)

County	SCC Level Two	NOx	VOC
Dearborn	Aircraft	1.63793981481481E-05	3.52189379084967E-05
Dearborn	Commercial/Institutional	1.46097374335119	5.25321743311939E-03
Dearborn	Electric Generation	15.0981352207556	0.270365129750509
Dearborn	Food and Agriculture		2.5453284218169
Dearborn	Industrial	0.432571965642113	1.88359780381689E-02
Dearborn	In-process Fuel Use	1.01307189542484E-02	5.38834422657952E-04
Dearborn	Mineral Products	0.805038126361656	0.025968954248366
Dearborn	Miscellaneous Manufacturing Industries		0
Dearborn	Organic Chemical Storage		0.054348916023867
Dearborn	Organic Solvent Evaporation		2.93980666118743E-02
Dearborn	Petroleum Liquids Storage (non-Refinery)		1.4111366268229E-05
Dearborn	Surface Coating Operations	0	1.33993492680407

Table 4.5 Point Source Emissions (Tons per Ozone Season Day)

County	SCC Level Two	NOx	VOC
Dearborn	Aircraft	1.63793981481481E-05	3.52189379084967E-05
Dearborn	Commercial/Institutional	1.46097374335119	5.25321743311939E-03
Dearborn	Electric Generation	15.0981352207556	0.270365129750509
Dearborn	Food and Agriculture		2.5453284218169
Dearborn	Industrial	0.432571965642113	1.88359780381689E-02
Dearborn	In-process Fuel Use	1.01307189542484E-02	5.38834422657952E-04
Dearborn	Mineral Products	0.805038126361656	0.025968954248366
Dearborn	Miscellaneous Manufacturing Industries		0
Dearborn	Organic Chemical Storage		0.054348916023867
Dearborn	Organic Solvent Evaporation		2.93980666118743E-02
Dearborn	Petroleum Liquids Storage (non-Refinery)		1.4111366268229E-05