

APPENDIX A

**Air Quality System (AQS) and Indiana
Department of Environmental Management
(IDEM) Monitor Data Values for Central Indiana
Area (2000-2008)**

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Monitoring Data for the Central Indiana Area

SITE ID	COUNTY	SITE NAME	YEAR	Annual Average µg/m ³	2006-2008 Average µg/m ³
18-095-0009	Madison	Anderson	2006	12.06	
18-095-0009	Madison	Anderson	2007	13.57	
18-095-0009	Madison	Anderson	2008	12.13	12.6
18-097-0078	Marion	Washington Park	2006	14.14	
18-097-0078	Marion	Washington Park	2007	15.66	
18-097-0078	Marion	Washington Park	2008	13.02	14.3
18-097-0081	Marion	W 18 th Street	2006	14.12	
18-097-0081	Marion	W 18 th Street	2007	16.07	
18-097-0081	Marion	W 18 th Street	2008	13.75	14.6
18-097-0083	Marion	E. Michigan Street	2006	14.15	
18-097-0083	Marion	E. Michigan Street	2007	15.93	
18-097-0083	Marion	E. Michigan Street	2008	13.17	14.4

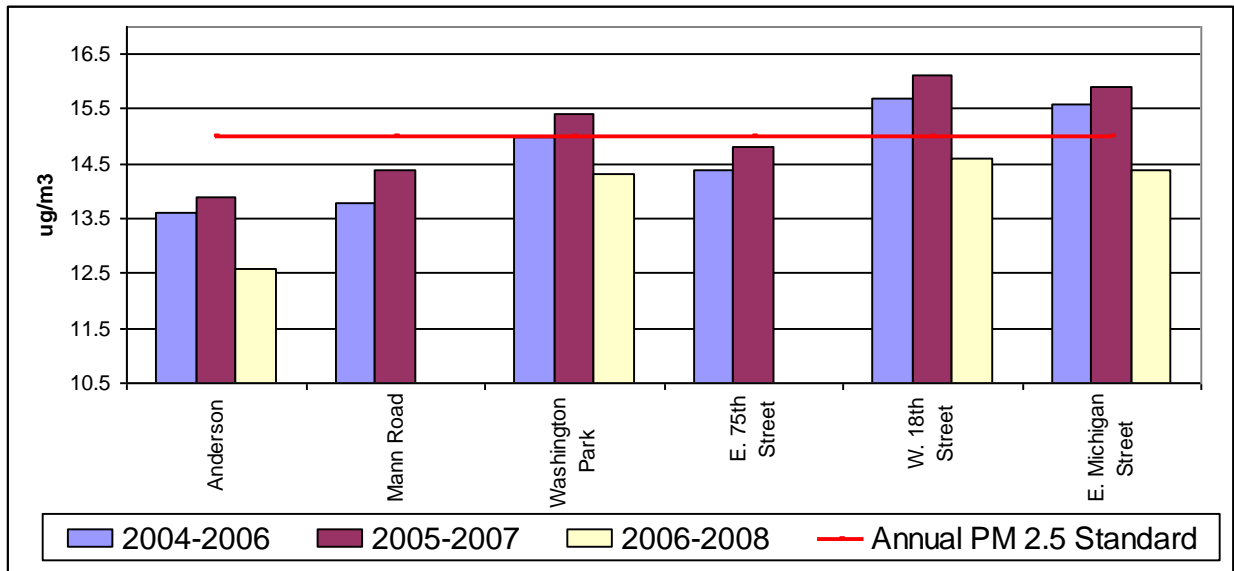
Site ID	County	Site Name	Yearly Annual Means								
			2000	2001	2002	2003	2004	2005	2006	2007	2008
180950009	Madison	Anderson	15.55	14.61	14.91	14.35	12.83	16.06	12.06	13.57	12.13
180970042	Marion	Mann Road	15.19	14.78	15.22	14.53	12.92	16.10	12.49	14.57	Site Discontinued
180970043	Marion	West Street	18.44	17.69	17.02	17.23	15.68	19.10	15.50	17.29	15.06
180970066	Marion	English Ave	18.90	18.63	18.35	17.46	16.68	19.35	15.22	17.08	13.23
180970078	Marion	Washington Park	17.75	16.58	16.55	15.45	14.31	16.39	14.14	15.66	13.02
180970079	Marion	E. 75 th Street	16.36	16.25	15.68	14.67	13.44	16.88	12.75	14.76	Site Discontinued
180970081	Marion	W. 18 th Street	16.78	17.14	14.24	16.21	14.96	18.06	14.12	16.07	13.75
180970083	Marion	E. Michigan Street	17.00	17.09	16.72	16.32	14.97	17.54	14.15	15.93	13.17
			Value Above the Annual PM _{2.5} Standard								
			Source Oriented Monitor NOT used for comparison to the Annual PM _{2.5} Standard								

Note: The Mann Road and E. 75th Street monitors were discontinued December 31, 2007

Site ID	County	Site Name	Three Year Design Values						
			00-02	01-03	02-04	03-05	04-06	05-07	06-08
180950009	Madison	Anderson	15.0	14.6	14.0	14.4	13.6	13.9	12.6
180970042	Marion	Mann Road	15.1	14.8	14.2	14.5	13.8	14.4	Site Discontinued
180970043	Marion	West Street	17.7	17.3	16.6	17.3	16.8	17.3	16.0
180970066	Marion	English Ave	18.6	18.1	17.5	17.8	17.1	17.2	15.2
180970078	Marion	Washington Park	17.0	16.2	15.4	15.4	15.0	15.4	14.3
180970079	Marion	E. 75 th Street	16.1	15.5	14.6	15.0	14.4	14.8	Site Discontinued
180970081	Marion	W. 18 th Street	16.1	15.9	15.1	16.4	15.7	16.1	14.6
180970083	Marion	E. Michigan Street	16.9	16.7	16.0	16.3	15.6	15.9	14.4
			Value Above the Annual PM _{2.5} Standard						
			Source Oriented Monitor NOT used for comparison to the Annual PM _{2.5} Standard						

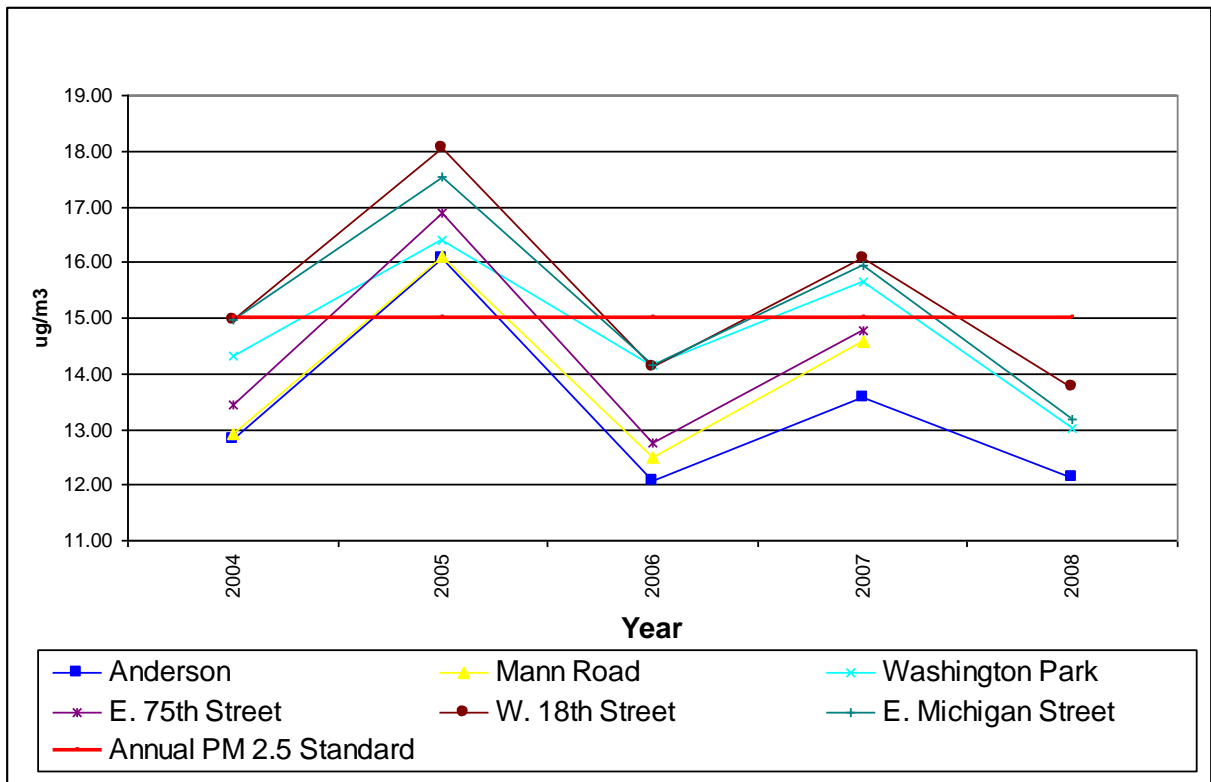
Note: The Mann Road and E. 75th Street monitors were discontinued December 31, 2007

Design Values for the Central Indiana Area for Fine Particles, 2004 through 2008



Note: The Mann Road and E. 75th Street monitors were discontinued December 31, 2007

Central Indiana Annual Fine Particles Trends, 2004 through 2008



Note: The Mann Road and E. 75th Street monitors were discontinued December 31, 2007

APPENDIX B

**Nitrogen Oxides (NO_x), Sulfur Dioxides (SO₂) and
Direct Fine Particulate Matter (PM_{2.5}) Point
Source Emissions (2002, 2005/2006) for Central
Indiana Area**

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Point Source Totals (Tons per Year)			
Year	NO _x	SO ₂	Direct PM _{2.5}
2002	20,433.95	72,984.10	764.22
2005	14,062.68	71,834.98	1,005.98
2006	14,334.95	65,150.91	1,024.45

2002-Point Source Emissions (Tons per Year)			
County	NO _x	SO ₂	Direct PM _{2.5}
Hamilton	1,209.82	3,751.30	21.55
Hendricks	3.23	0.40	57.15
Johnson	10.88	0.05	0.60
Marion	14,342.02	51,088.72	558.42
Morgan	4,868.00	18,143.63	126.50
Total	20433.95	72984.10	764.22

2005-Point Source Emissions (Tons per Year)						
County	EGU-NO _x	NON-EGU-NO _x	EGU-SO ₂	NON-EGU-SO ₂	EGU-Direct PM _{2.5}	NON-EGU-Direct PM _{2.5}
Hamilton	28.10	6.39	1.10	0.80	12.88	7.47
Hendricks		97.28		86.89		31.67
Johnson		6.48		0.04		0.52
Marion	4,574.40	5,605.45	49,351.00	3,694.99	117.63	749.80
Morgan	3,536.10	208.49	17,811.30	888.86	31.86	54.15
Sub-Total	8,138.60	5,924.09	67,163.40	4,671.58	162.37	843.61
	NO_x		SO₂		Direct PM_{2.5}	
Grand Total	14,062.68		71,834.98		1,005.98	

2006-Point Source Emissions (Tons per Year)						
County	EGU-NO _x	NON-EGU-NO _x	EGU-SO ₂	NON-EGU-SO ₂	EGU-Direct PM _{2.5}	NON-EGU-Direct PM _{2.5}
Hamilton	30.56	6.36	0.40	0.62	9.63	7.98
Hendricks		98.44		88.33		31.21
Johnson		5.35		0.03		0.43
Marion	4,343.90	6,727.24	46,346.40	3,040.45	267.31	602.32
Morgan	2,897.80	225.31	14,829.30	845.38	47.20	58.37
Sub-Total	7,272.26	7,062.70	61,176.10	3,974.81	324.14	700.31
	NO_x		SO₂		Direct PM_{2.5}	
Grand Total	14,334.95		65,150.91		1,024.45	

2002 Hamilton County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
INDIANA DUCTILE LLC	0.03	4.10	0.03
FIRESTONE INDUSTRIAL PRODUCTS	52.36	6.02	89.54
IRVING MATERIALS, INC./STONY CREEK STONE		2.82	
INDUSTRIAL DIELECTRICS, INC.		0.03	
MAR-ZANE PLANT #18	4.73	0.00	0.54
PRAIRIE GROUP - PLANT 79		0.00	
Total	57.12	12.97	90.10

2002 Hamilton County EGU Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
PSI ENERGY-NOBLESVILLE	1,152.70	8.59	3,661.20
Total	1,152.70	8.59	3,661.20

2002 Hendricks County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
TWIN BRIDGES RECYCLING & DISPOSAL FACIL	3.23	52.81	0.40
PHOENIX FABRICATOR AND ERECTORS		4.34	
Total	3.23	57.15	0.40

2002 Johnson County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
SONOCO FLEXIBLE PACKAGING	10.88	0.58	0.05
LEAR CORPORATION EEDS & INTERIORS		0.02	
Total	10.88	0.60	0.05

2002 Marion County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
HUBBARD FEEDS INC. FORMERLY CONTI GROUP	0.25	0.08	0.00
AMERICAN ART CLAY CO. INC.	1.12	1.52	0.71
BRIDGEPORT BRASS D/B/A OLIN BRASS	24.61	1.90	0.11
CENTRAL STATE HOSPITAL	0.07	0.00	0.00
GM MFD INDIANAPOLIS METAL CENTER	4.13	0.22	0.02
DAIMLER CHRYSLER CORPORATION FOUNDRY	42.04	28.04	0.18
ELI LILLY AND COMPANY (LCC)	0.28	0.28	0.16
CARGILL DRY CORN INGREDIENTS	7.22	9.66	0.03
VISTEON CORPORATION - INDIANAPOLIS PLANT	23.44	2.43	0.19
ADM GRAIN COMPANY	0.55	0.61	0.00
ZIMMER PAPER PRODUCTS INC	1.37	0.06	0.00
INDIANA VENEERS CORP	8.95	0.19	0.31
INDIANAPOLIS BELMONT WWTP	221.14	2.07	3.66
C.C. PERRY K STEAM PLANT	2,002.18	21.40	3,123.66
CAPITOL CITY CONTAINER CORP.		0.17	

2002 Marion County Point Source Inventory (Tons per Year)--continued			
Facility Name	NOX	PM_{2.5}	SO₂
INTERNATIONAL TRUCK AND ENGINE CORP.	46.30	58.19	6.94
VALSPAR COATINGS	2.01	0.14	0.01
WISHARD MEMORIAL HOSPITAL	23.90	3.11	2.24
NATIONAL STARCH & CHEMICAL CORPORATION	86.87	82.31	8.15
IR VON DUPRIN	0.99		0.00
PRAXAIR SURFACE TECHNOLOGIES, INC.		0.01	
CITIZENS GAS & COKE	551.63	99.59	186.85
INTERSTATE CASTINGS	0.03	11.31	0.04
INDPLS.JUVENILE CORRECTIONAL FACILITY	0.18	0.01	0.00
QUEMETCO, INC.	362.14	8.48	146.68
DORSEY PAVING INC	0.00	0.03	0.00
F.E. HARDING ASPHALT COMPANY	7.69	2.62	4.62
MILESTONE CONTRACTORS, L.P.	24.38	16.59	36.09
RIETH-RILEY88 ASPHALT PLANT #325	8.11	10.96	16.30
RIETH-RILEY89 ASPHALT PLANT #326	9.35	12.36	18.68
CRYOVAC RIGID PACKAGING CRYOVAC, INC.		0.02	
PANHANDLE EASTERN PIPELINE CO	2,197.80	3.14	0.20
ASPHALT MATERIALS, INC.	11.22	0.55	0.04
RAYTHEON TECH. SERVICES CO.	5.41	0.30	0.02
BMG MUSIC	1.40	0.09	0.01
HANSON AGGREGATES MIDWEST, INC-STONE		21.90	
CAPITOL CITY METALS, L.L.C--SHREDDING YD		2.08	
BEST ACCESS SYSTEMS		0.09	
SENSIENT FLAVORS, INC.	1.22	0.91	0.01
COVANTA INDIANAPOLIS, INC.	1143.58	8.04	54.01
SUPERIOR METAL TECHNOLOGIES	0.93	0.05	0.00
ST VINCENT HOSPITAL	3.38	0.19	0.02
E & B PAVING INC.	7.59	0.35	9.63
GEIGER & PETERS, INC.		0.23	
METALWORKING LUBRICANTS COMPANY	7.67	1.59	2.28
FIRESTONE BUILDING PRODUCTS CO.		1.38	
CITIZENS GAS & COKE UTILITY - LNG NORTH	8.56	0.30	0.01
MILLER VENEERS, INC.	0.00	0.02	0.00
BUTLER UNIVERSITY	5.50	0.33	0.03
INLAND PAPERBOARD - GRAPHIC RESOURCE CEN	0.53	0.05	0.00
UNITED AIRLINES INDPLS MAINTENANCE CENTR	17.34	1.31	0.24
SAINT CLAIR PRESS	0.10	0.01	0.00
KROGER COMPANY - INDIANAPOLIS BAKERY	16.32	0.87	0.07
ST. FRANCIS HOSPITAL - BEECH GROVE	8.11	0.45	1.62
MAR-ZANE, INC. PT. 16		1.26	0.36
INTERSTATE BRANDS CORP.	7.14	0.39	0.03
COMMERCIAL FINISHING	0.64	0.03	0.00

2002 Marion County Point Source Inventory (Tons per Year)--continued			
Facility Name	NOX	PM_{2.5}	SO₂
COMMERCIAL FINISHING CORP 26TH ST.	0.06	0.00	0.00
CONAGRA FOODS	7.35	0.41	0.03
ASHLAND DISTRIBUTION CO. – INDIANAPOLIS	0.13	0.01	0.00
KERR-MCGEE CHEMICAL CORPORATION – FPD	2.09	0.16	0.01
COMMUNITY HOSPITAL EAST	24.64	0.47	0.04
DELUXE FINANCIAL SERVICES	0.18	0.01	0.00
GENERAL DEVICES CO., INC	1.61	0.08	0.01
HOLCOMB & HOKE MFG CO., INC.	0.45	0.03	0.00
NATIONAL BY-PRODUCTS, INC.	15.00	1.01	0.06
INLAND PAPERBOARD – ROOSEVELT	0.45	0.02	0.00
FEDERAL EXPRESS	7.77	0.15	0.62
DOW AGROSCIENCES	12.70	0.74	0.08
INDY RAILWAY SERVICE CORP.		2.85	
INDUSTRIAL COATINGS SERVICES	2.37	0.13	0.01
MAJOR TOOL & MACHINE, INC.		0.02	
INDPLS AIR ROUTE TRAFFIC CONTROL CENTER	8.74	0.40	0.34
CITIZENS GAS & COKE UTILITY - LNG SOUTH	56.91	0.11	0.01
WINONA MEMORIAL HOSPITAL	2.31	0.13	0.02
CMW, INC.	0.18	0.01	0.00
IVC INDUSTRIAL COATING		2.40	
ST. FRANCIS HOSPITAL AND HEALTH CENTER	5.77	0.30	0.10
ALLISON TRANSMISSION GENERAL MOTORS CORP	280.35	9.58	99.23
ROLLS-ROYCE CORPORATION. PLANT 5 & 8	122.30	15.37	58.83
CENTRAL CORRUGATED, INCORPORATED	2.41	1.19	0.01
INLAND PAPERBOARD - STOUT FIELD	3.08	0.42	0.01
REILLY INDUSTRIES, INC.	109.18	11.55	16.38
RTP COMPANY		0.02	
SCHERER INDUSTRIAL GROUP, INC.	0.35	0.15	0.00
ROCHE DIAGNOSTICS CORPORATION	0.43	0.00	0.00
SUBURBAN STEEL SUPPLY COMPANY	0.72	3.70	0.02
DESIGN INDUSTRIES		7.62	
QUAKER OATS CO-MAYFLOWER MIDWEST FACILIT	13.53	0.70	0.06
SOUTH SIDE LANDFILL, INC.	12.28	3.48	17.52
PARTS CLEANING TECHNOLOGIES, LLC	0.64	0.02	0.00
AT OF GM - PARK FLETCHER BUILDING 38	1.46	0.06	0.06
ROYAL SPA MFG.		0.35	
QWEST - T1	0.25	0.01	0.01
QWEST – POP	0.08	0.00	0.00
Total	7,601.19	483.95	3,817.70

2002 Marion County EGU Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
IPL HARDING STREET STATION	6,633.70	65.90	47,267.90
GEORGETOWN SUBSTATION GENERATING PLANT	17.75	5.52	0.10
IPL THOMPSON SUBSTATION	24.92	0.85	0.84
IPL SUNNYSIDE SUBSTATION	10.47	0.36	0.35
IPL ROCKVILLE SUBSTATION	8.16	0.28	0.28
IPL PROSPECT SUBSTATION	7.13	0.24	0.24
IPL GERMAN CHURCH SUBSTATION	12.11	0.41	0.41
IPL-GLENS VALLEY SUBSTATION	9.09	0.31	0.31
IPL-GUION SUBSTATION	9.88	0.34	0.33
IPL CUMBERLAND SUBSTATION	7.63	0.26	0.26
Total	6,740.82	74.47	47,271.03

2002 Morgan County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
GENERAL SHALE PRODUCTS	70.40	27.30	366.66
HYDRAULIC PRESS BRICK CO.	303.10	70.98	560.67
WAVERLY PLANT		0.62	
Total	373.50	98.90	927.33

2002 Morgan County EGU Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
IPALCO-PRITCHARD STATION	4,494.50	27.60	17,216.30
Total	4,494.50	27.60	17,216.30

2005 Hamilton County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
INDIANA DUCTILE LLC	6.39	7.47	0.80
Total	6.39	7.47	0.80

2005 Hamilton County EGU Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
PSI ENERGY-NOBLESVILLE	28.10	12.88	1.10
Total	28.10	12.88	1.10

2005 Hendricks County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
TWIN BRIDGES RECYCLING 7 DISPOSAL	22.90	13.2	4.8
STEEL DYNAMICS, INC (SDI) BAR PROD	74.38	15.1	82.09
PHOENIX FABRICATOR AND ERECTORS		3.37	
Total	97.28	31.67	86.89

2005 Johnson County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
SONOCO FLEXIBLE PACKAGING	6.48	0.52	0.04
Total	6.48	0.52	0.04

2005 Marion County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
DAIMLER CHRYSLER CORPORATION FOUNDRY	24.15	23.37	16.60
CARGILL DRY CORN INGREDIENTS	3.83	9.76	0.02
INDIANAPOLIS BELMONT WWTP	141.24	3.08	12.70
C.C. PERRY K STEAM PLANT	1481.51	18.12	3,195.78
INTERNATIONAL TRUCK AND ENGINE CORP.	15.58	204.10	4.99
NATIONAL STARCH & CHEMICAL CORPORATION	66.41	107.59	8.82
CITIZENS GAS & COKE	780.58	307.18	193.09
CRYOVAC RIGID PACKAGING CRYOVAC, INC.		0.02	
PEPL - ZIONSVILLE COMPRESSOR STATION	2,527.63	21.44	0.32
ST VINCENT HOSPITAL	1.64	0.54	0.02
WEYERHAEUSER	2.01	0.15	0.01
ALLISON TRANSMISSION GENERAL MOTORS CORP	276.17	15.04	13.38
ROLLS-ROYCE CORPORATION. PLANT 5 & 8	142.28	26.85	211.39
VERTELLUS SPECIALTIES	142.42	12.50	37.80
Total	5,605.45	749.80	3,694.99

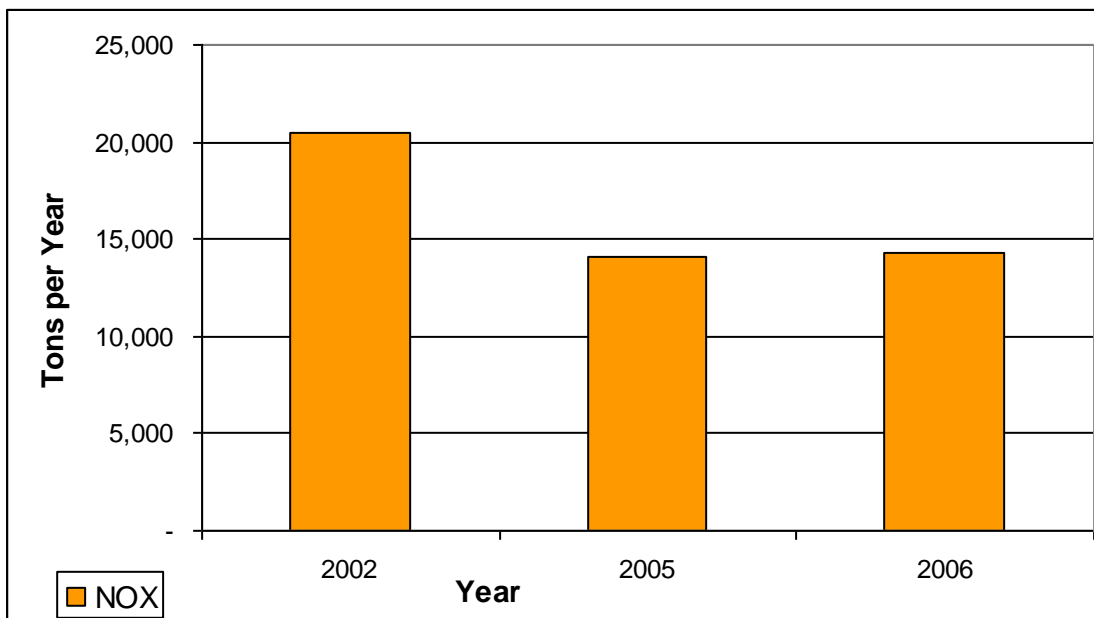
2005 Marion County EGU Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
IPL GEORGETOWN SUBSTATION	16.50		0.30
IPL HARDING STREET STATION	4,557.90	117.63	49,350.70
Total	4,574.40	117.63	49,351.00

2005 Morgan County Point Source Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
GENERAL SHALE BRICK, INC.	42.40	2.80	76.90
HYDRAULIC PRESS BRICK CO.	166.09	51.35	811.96
Total	208.49	54.15	888.86

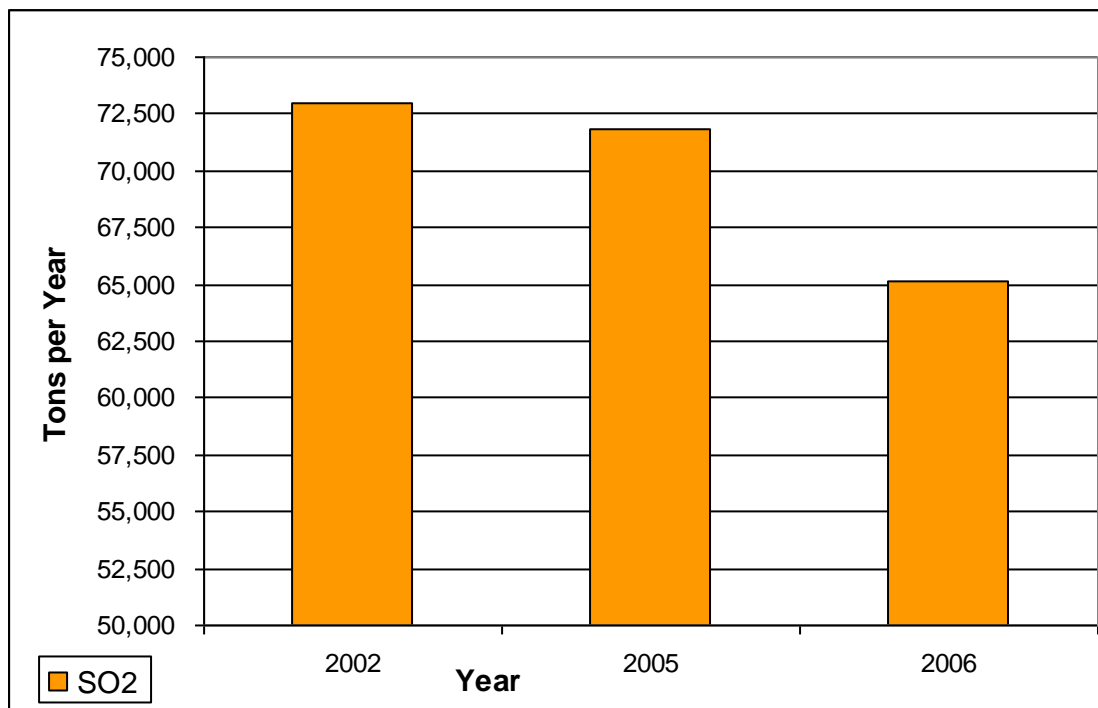
2005 Morgan County EGU Inventory (Tons per Year)			
Facility Name	NOX	PM_{2.5}	SO₂
IPL EAGLE VALLEY STATION	3,536.10	31.86	17,811.30
Total	3,536.10	31.86	17,811.30

***NOTE: Indiana does not have a Point Source Inventory for individual companies for the year 2006**

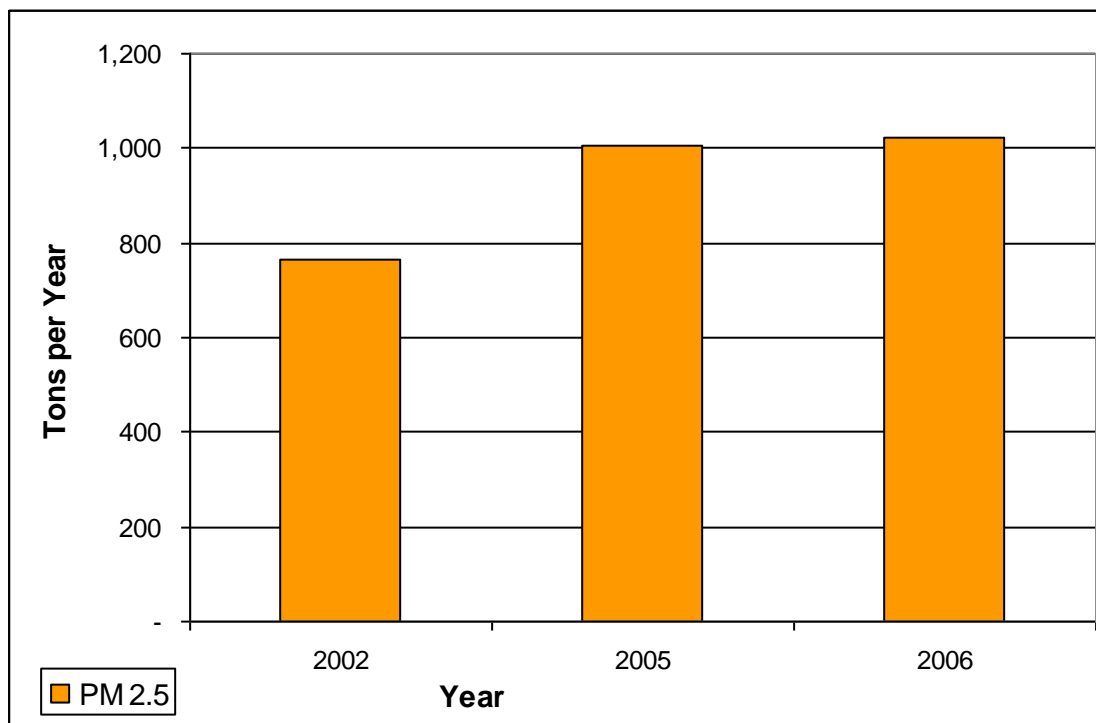
Central Indiana Area NO_x Point Source Emission Trends, 2002, 2005 and 2006



Central Indiana Area SO₂ Point Source Emission Trends, 2002, 2005 and 2006



Central Indiana Area Direct PM_{2.5} Point Source Emission Trends, 2002, 2005 and 2006



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APPENDIX C

**Nitrogen Oxides (NO_x), Sulfur Dioxides (SO₂) and
Direct Fine Particulate Matter (PM_{2.5}) (2002,
2005/2006) Emission Trends, All Sources, Central
Indiana Area**

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2002				
COUNTY	Sector	NOX	PM_{2.5}	SO₂
HAMILTON	AREA	582.45	264.52	674.38
HAMILTON	NONROAD	1,804.71	162.39	192.22
HAMILTON	POINT	1,209.82	21.55	3,751.30
HENDRICKS	AREA	277.30	123.46	275.82
HENDRICKS	NONROAD	1,666.03	112.96	167.19
HENDRICKS	POINT	3.23	57.15	0.40
JOHNSON	AREA	462.93	279.53	754.15
JOHNSON	NONROAD	733.62	69.60	70.88
JOHNSON	POINT	10.88	0.60	0.05
MARION	AREA	4,000.66	2,092.57	6,672.71
MARION	NONROAD	7,292.64	453.80	642.68
MARION	POINT	14,342.02	558.42	51,088.72
MORGAN	AREA	194.78	174.85	299.29
MORGAN	NONROAD	476.65	48.98	48.03
MORGAN	POINT	4,868.00	126.50	18,143.63
5 COUNTY TOTAL (Hamilton, Hendricks, Johnson, Marion, Morgan Counties)	ONROAD	38,059.50	670.50	1,219.50

	2002 TOTALS				
	AREA	NONROAD	ONROAD	POINT	GRAND TOTAL
NOX	5,518.12	11,973.65	38,059.50	20,433.95	75,985.22
Direct PM_{2.5}	2,934.95	847.73	670.50	764.22	5,217.40
SO₂	8,676.35	1,121.00	1,219.50	72,984.10	84,000.95

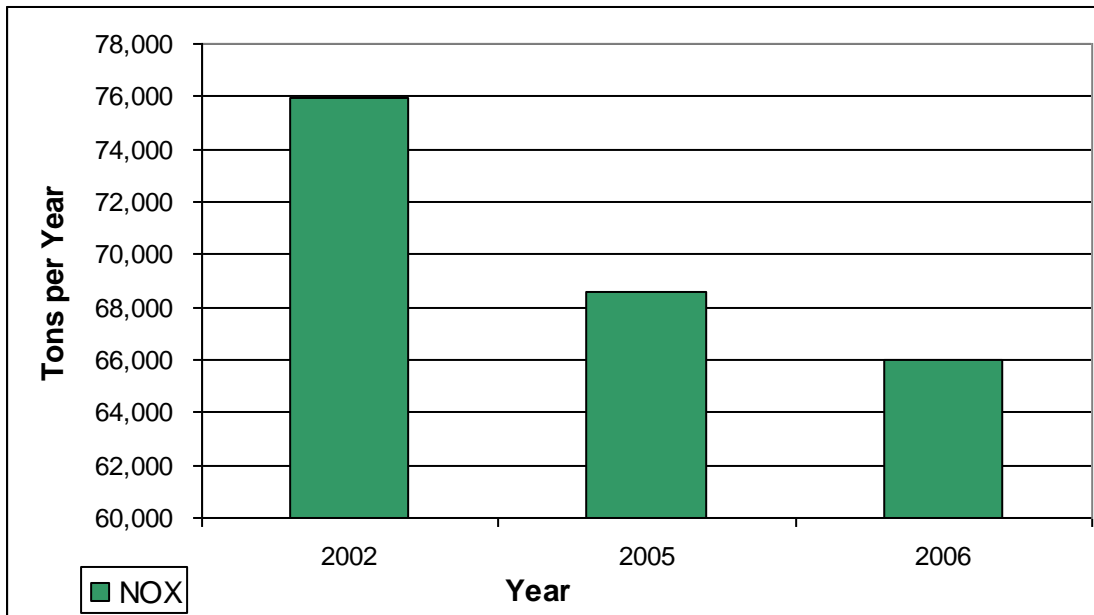
2005				
COUNTY	Sector	NOX	PM _{2.5}	SO2
HAMILTON	AREA	565.88	7.29	214.12
HAMILTON	NONROAD	2,774.02	238.21	350.75
HAMILTON	ONROAD	5,130.33	121.55	100.98
HAMILTON	EGU	28.10	12.88	1.10
HAMILTON	POINT	6.39	7.47	0.80
HENDRICKS	AREA	278.64	4.96	114.24
HENDRICKS	NONROAD	1,798.51	139.70	228.87
HENDRICKS	ONROAD	2,996.01	65.05	53.59
HENDRICKS	POINT	97.28	31.67	86.89
JOHNSON	AREA	402.01	4.53	137.47
JOHNSON	NONROAD	989.89	82.50	111.85
JOHNSON	ONROAD	3,247.76	71.42	58.84
JOHNSON	POINT	6.48	0.52	0.04
MARION	AREA	3,381.47	62.10	1,263.07
MARION	NONROAD	6,886.63	444.59	690.56
MARION	ONROAD	23,104.27	631.45	442.28
MARION	EGU	4,574.40	117.63	49,351.00
MARION	POINT	5,605.45	749.80	3,694.99
MORGAN	AREA	190.56	6.98	87.27
MORGAN	NONROAD	466.97	44.65	50.24
MORGAN	ONROAD	2,269.21	50.71	41.89
MORGAN	EGU	3,536.10	31.86	17,811.30
MORGAN	POINT	208.49	54.15	888.86

	2005 TOTALS					
	AREA	NONROAD	ONROAD	EGU	POINT	GRAND TOTAL
NOX	4,818.55	12,916.03	36,747.59	8,138.60	5,924.09	68,544.85
Direct PM_{2.5}	85.87	949.66	940.18	162.37	843.61	2,981.69
SO2	1,816.17	1,432.28	697.59	67,163.40	4,671.58	75,781.02

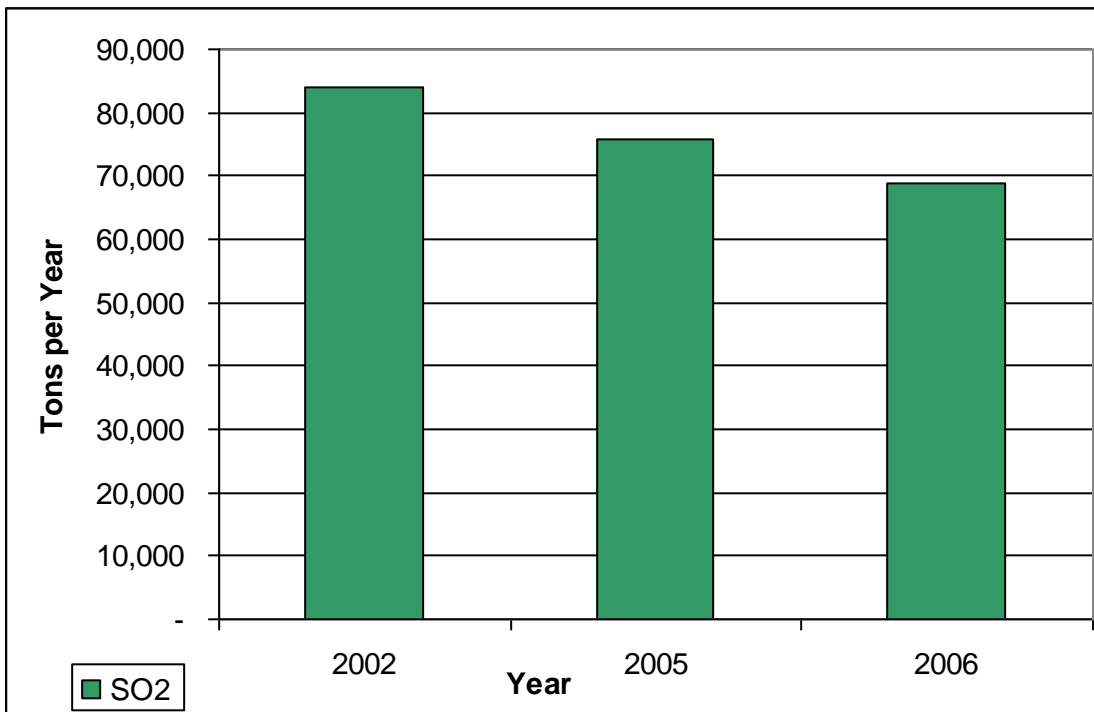
2006				
COUNTY	Sector	NOX	PM _{2.5}	SO2
HAMILTON	AREA	569.48	7.29	215.31
HAMILTON	NONROAD	2,658.44	226.37	276.55
HAMILTON	ONROAD	4,866.81	119.51	83.10
HAMILTON	EGU	30.56	9.63	0.40
HAMILTON	POINT	6.36	7.98	0.62
HENDRICKS	AREA	280.51	4.98	114.69
HENDRICKS	NONROAD	1,709.74	131.58	183.49
HENDRICKS	ONROAD	2,848.97	63.80	44.01
HENDRICKS	POINT	98.44	31.21	88.33
JOHNSON	AREA	404.04	4.53	138.10
JOHNSON	NONROAD	945.49	78.31	88.52
JOHNSON	ONROAD	3,031.07	69.22	48.11
JOHNSON	POINT	5.35	0.43	0.03
MARION	AREA	3,394.86	61.91	1,264.82
MARION	NONROAD	6,498.64	422.61	558.55
MARION	ONROAD	21,694.14	590.06	362.01
MARION	EGU	4,343.90	267.31	46,346.40
MARION	POINT	6,727.24	602.32	3,040.45
MORGAN	AREA	192.10	6.99	87.87
MORGAN	NONROAD	449.60	42.71	39.79
MORGAN	ONROAD	2,153.21	49.32	34.28
MORGAN	EGU	2,897.80	47.20	14,829.30
MORGAN	POINT	225.31	58.37	845.38

2006 TOTALS						
	AREA	NONROAD	ONROAD	EGU	POINT	GRAND TOTAL
NOX	4,841.00	12,261.91	34,594.20	7,272.26	7,062.70	66,032.06
Direct PM_{2.5}	85.70	901.58	891.91	324.14	700.31	2,903.64
SO2	1,820.79	1,146.90	571.50	61,176.10	3,974.81	68,690.10

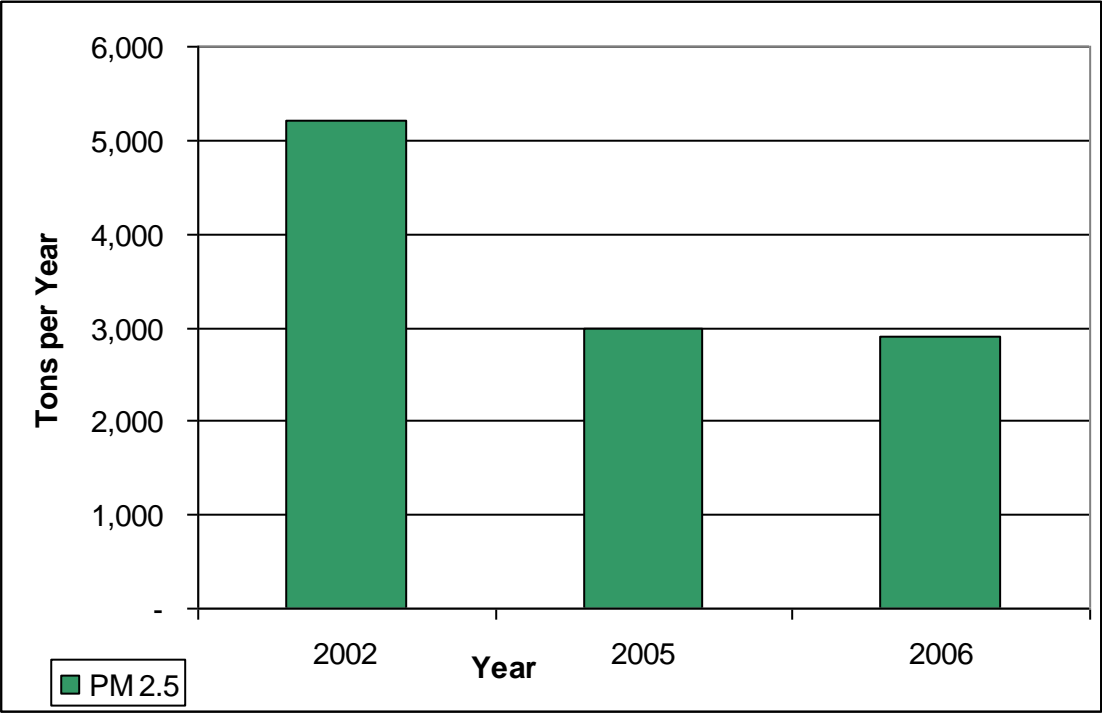
NO_x Emission Trends, All Sources in the Central Indiana Area, 2002, 2005 and 2006



SO₂ Emission Trends, All Sources in the Central Indiana Area, 2002, 2005 and 2006



Direct PM_{2.5} Emission Trends, All Sources in Central Indiana Area, 2002,2005 and 2006



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APPENDIX D

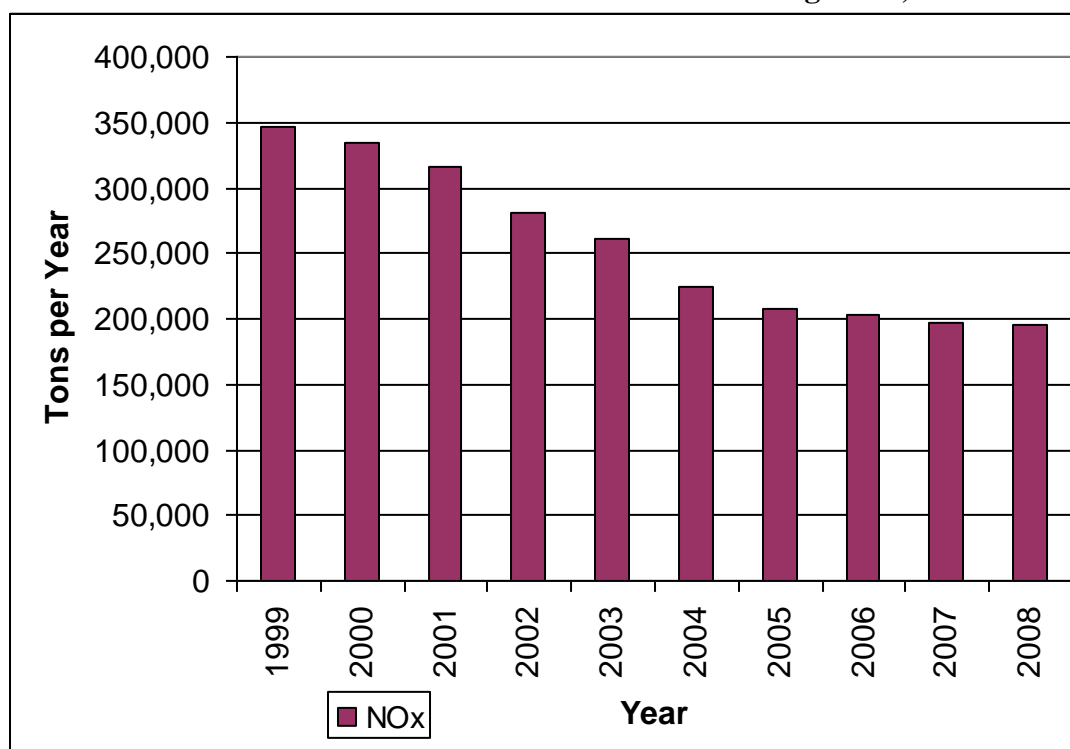
Nitrogen Oxides (NO_x) and Sulfur Dioxides (SO₂) Emissions from Electric Generating Units, Central Indiana Area

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Statewide Indiana NO_x Emissions from EGUs

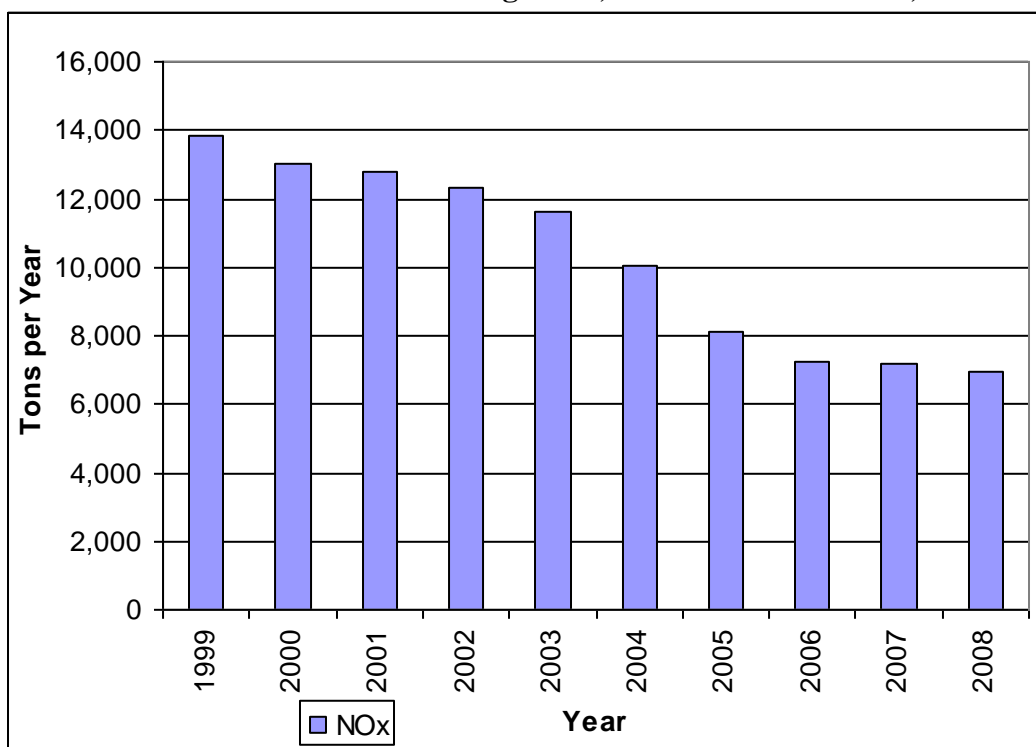
Year	NO _x Emissions, tons / year
1999	347,216.5
2000	334,522.1
2001	315,419.7
2002	281,146.1
2003	260,980.0
2004	224,311.3
2005	207,981.6
2006	202,728.0
2007	196,553.1
2008	196,134.5
Budget 2009-2014	108,935
Budget 2015 and later	90,779

Indiana Statewide NO_x Emissions from Electric Generating Units, 1999 to 2008



	Central Indiana NO _x Emissions from EGUs
Facility	NO _x Emissions, tons / year
1999	13,841.9
2000	13,036.2
2001	12,796.3
2002	12,295.7
2003	11,627.0
2004	10,021.6
2005	8,140.5
2006	7,254.4
2007	7,190.4
2008	6,932.0

NO_x Emissions from Electric Generating Units, Central Indiana Area, 1999 to 2008



	Central Indiana NO_x Emissions from EGUs 1999
Facility	NO_x Emissions, tons / year
Noblesville	2,157.1
Anderson	0.0
IPL Harding Street Station (EW Stout)	7,899.7
IPL Eagle Valley Generating Station	3,785.1
Total	13,841.9

	Central Indiana NO_x Emissions from EGUs 2000
Facility	NO_x Emissions, tons / year
Noblesville	2,145.1
Anderson	9.3
IPL Georgetown Substation	3.0
IPL Harding Street Station (EW Stout)	6,434.3
IPL Eagle Valley Generating Station	4,444.5
Total	13,036.2

	Central Indiana NO_x Emissions from EGUs 2001
Facility	NO_x Emissions, tons / year
Noblesville	1,578.4
Anderson	5.4
IPL Georgetown Substation	8.5
IPL Harding Street Station (EW Stout)	6,723.7
IPL Eagle Valley Generating Station	4,480.3
Total	12,796.3

	Central Indiana NO_x Emissions from EGUs 2002
Facility	NO_x Emissions, tons / year
Noblesville	1,152.7
Anderson	5.2
IPL Georgetown Substation	9.6
IPL Harding Street Station (EW Stout)	6,633.7
IPL Eagle Valley Generating Station	4,494.5
Total	12,295.7

	Central Indiana NO_x Emissions from EGUs 2003
Facility	NO_x Emissions, tons / year
Noblesville	842.6
Anderson	3.5
IPL Georgetown Substation	1.0
IPL Harding Street Station (EW Stout)	6,352.3
IPL Eagle Valley Generating Station	4,427.6
Total	11,627.0

	Central Indiana NO_x Emissions from EGUs 2004
Facility	NO_x Emissions, tons / year
Noblesville	22.2
Anderson	1.9
IPL Georgetown Substation	2.6
IPL Harding Street Station (EW Stout)	6,238.0
IPL Eagle Valley Generating Station	3,756.9
Total	10,021.6

	Central Indiana NO_x Emissions from EGUs 2005
Facility	NO_x Emissions, tons / year
Noblesville	28.1
Anderson	1.9
IPL Georgetown Substation	16.5
IPL Harding Street Station (EW Stout)	4,557.9
IPL Eagle Valley Generating Station	3,536.1
Total	8,140.5

	Central Indiana NO_x Emissions from EGUs 2006
Facility	NO_x Emissions, tons / year
Noblesville	10.0
Anderson	2.7
IPL Georgetown Substation	7.5
IPL Harding Street Station (EW Stout)	4,336.4
IPL Eagle Valley Generating Station	2,897.8
Total	7,254.4

	Central Indiana NO_x Emissions from EGUs 2007
Facility	NO_x Emissions, tons / year
Noblesville	27.9
Anderson	3.1
IPL Georgetown Substation	9.5
IPL Harding Street Station (EW Stout)	4,270.5
IPL Eagle Valley Generating Station	2,879.4
Total	7,190.4

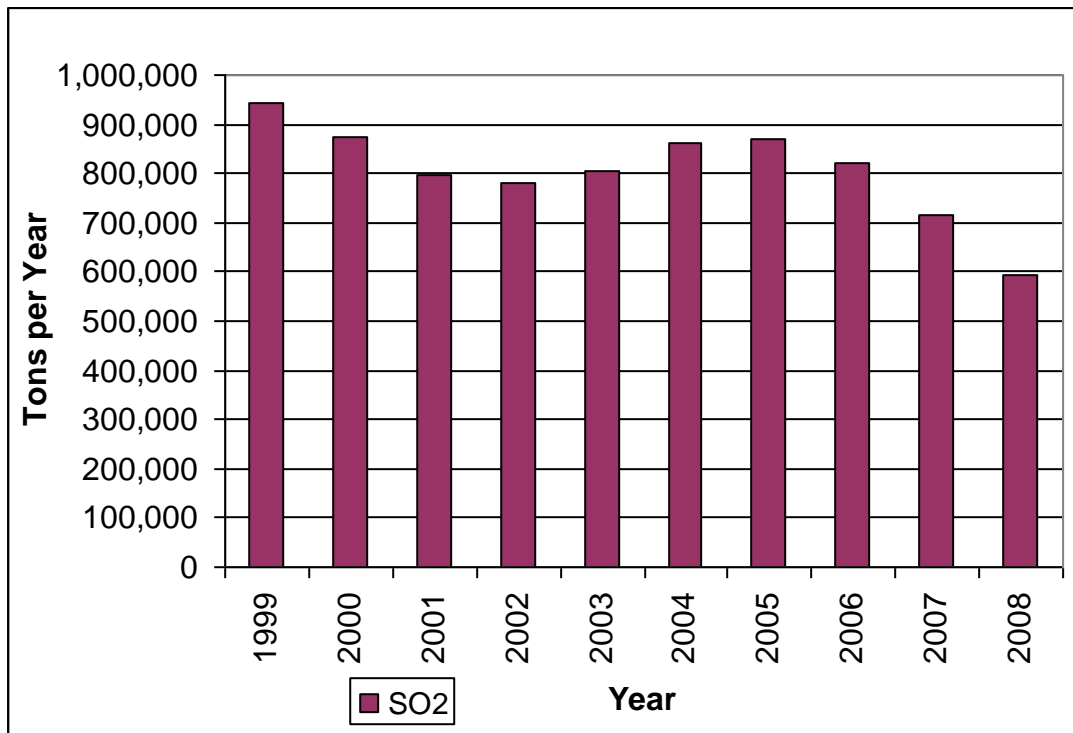
	Central Indiana NO_x Emissions from EGUs 2008
Facility	NO_x Emissions, tons / year
Noblesville	31.1
Anderson	2.9
IPL Georgetown Substation	1.7
IPL Harding Street Station (EW Stout)	4,548.0
IPL Eagle Valley Generating Station	2,348.3
Total	6,932.0

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Statewide Indiana SO₂ Emissions from EGUs

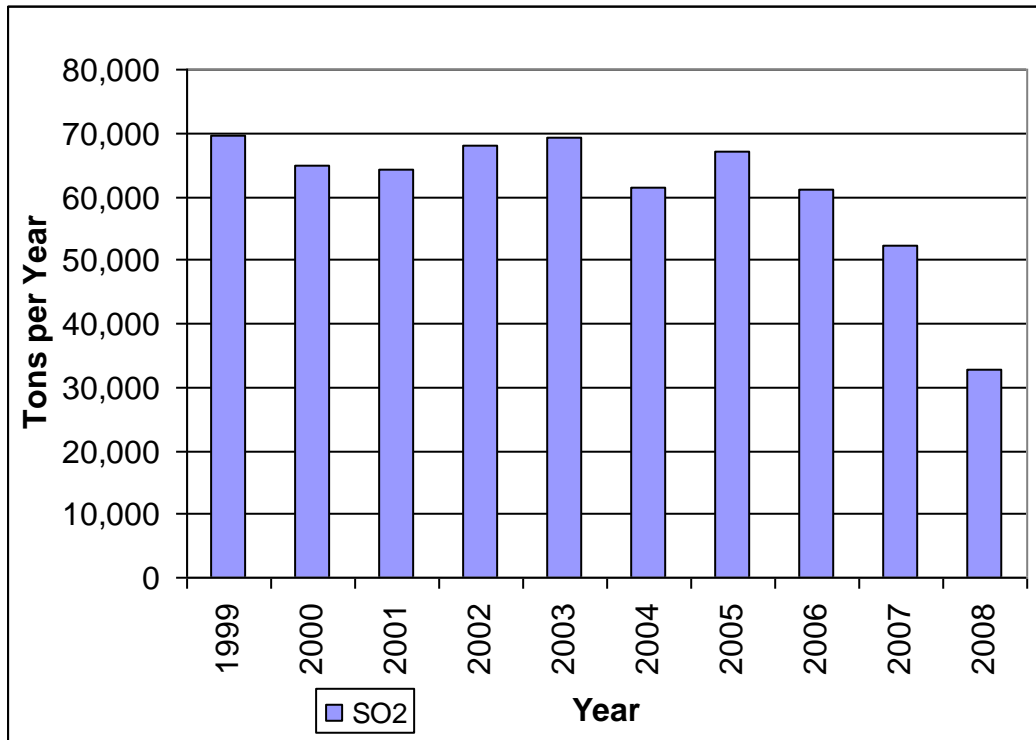
Year	SO ₂ Emissions, tons / year
1999	941,852.4
2000	874,617.2
2001	795,505.6
2002	778,868.0
2003	804,828.6
2004	862,876.4
2005	870,811.8
2006	820,993.4
2007	714,529.2
2008	593,154.0
Budget 2009-2014	254,599.0
Budget 2015 and later	178,219.0

Indiana Statewide SO₂ Emissions from Electric Generating Units, 1999 to 2008



	Central Indiana SO₂ Emissions from EGUs
Facility	SO₂ Emissions, tons / year
1999	69,678.6
2000	64,849.9
2001	64,173.2
2002	68,096.0
2003	69,178.4
2004	61,543.5
2005	67,163.8
2006	61,176.2
2007	52,303.5
2008	32,660.2

SO₂ Emissions from Electric Generating Units, Central Indiana Area, 1999 to 2008



	Central Indiana SO₂ Emissions from EGUs 1999
Facility	NO_x Emissions, tons / year
Noblesville	9,613.3
Anderson	0.0
IPL Harding Street Station (EW Stout)	44,589.6
IPL Eagle Valley Generating Station	15,475.7
Total	69,678.6

	Central Indiana SO₂ Emissions from EGUs 2000
Facility	NO_x Emissions, tons / year
Noblesville	6,874.1
Anderson	3.3
IPL Georgetown Substation	0.1
IPL Harding Street Station (EW Stout)	40,309.8
IPL Eagle Valley Generating Station	17,662.6
Total	64,849.9

	Central Indiana SO₂ Emissions from EGUs 2001
Facility	NO_x Emissions, tons / year
Noblesville	4,688.1
Anderson	0.7
IPL Georgetown Substation	
IPL Harding Street Station (EW Stout)	43,052.7
IPL Eagle Valley Generating Station	16,431.5
Total	64,173.2

	Central Indiana SO₂ Emissions from EGUs 2002
Facility	NO_x Emissions, tons / year
Noblesville	3,611.2
Anderson	0.4
IPL Georgetown Substation	0.2
IPL Harding Street Station (EW Stout)	47,267.9
IPL Eagle Valley Generating Station	17,216.3
Total	68,096.0

	Central Indiana SO₂ Emissions from EGUs 2003
Facility	NO_x Emissions, tons / year
Noblesville	1,224.6
Anderson	1.4
IPL Georgetown Substation	0.0
IPL Harding Street Station (EW Stout)	51,016.9
IPL Eagle Valley Generating Station	16,935.5
Total	69,178.4

	Central Indiana SO₂ Emissions from EGUs 2004
Facility	NO_x Emissions, tons / year
Noblesville	0.7
Anderson	0.1
IPL Georgetown Substation	0.1
IPL Harding Street Station (EW Stout)	44,782.9
IPL Eagle Valley Generating Station	16,759.7
Total	61,543.5

	Central Indiana SO₂ Emissions from EGUs 2005
Facility	NO_x Emissions, tons / year
Noblesville	1.1
Anderson	0.4
IPL Georgetown Substation	0.3
Harding Street Station (EW Stout)	49,350.7
IPL Eagle Valley Generating Station	17,811.3
Total	67,163.8

	Central Indiana SO₂ Emissions from EGUs 2006
Facility	NO_x Emissions, tons / year
Noblesville	0.4
Anderson	0.1
IPL Georgetown Substation	0.2
IPL Harding Street Station (EW Stout)	46,346.2
IPL Eagle Valley Generating Station	14,829.3
Total	61,176.2

	Central Indiana SO₂ Emissions from EGUs 2007
Facility	NO_x Emissions, tons / year
Noblesville	1.0
Anderson	0.0
IPL Georgetown Substation	0.2
IPL Harding Street Station (EW Stout)	36,201.4
IPL Eagle Valley Generating Station	16,100.9
Total	52,303.5

	Central Indiana SO₂ Emissions from EGUs 2008
Facility	NO_x Emissions, tons / year
Noblesville	1.0
Anderson	0.0
IPL Georgetown Substation	0.0
IPL Harding Street Station (EW Stout)	19,573.0
IPL Eagle Valley Generating Station	13,086.2
Total	32,660.2

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APPENDIX E

2006 Base Year Emissions Inventory and 2015 and 2020 Projected Emissions Inventory Nitrogen Oxides (NO_x), Sulfur Dioxides (SO₂) and Direct Fine Particulate Matter (PM_{2.5}) in Central Indiana Area

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2005 (Tons per Year)

Area	Category	NO _x	Direct PM _{2.5}	SO ₂
Central Indiana Area	Area	4,818.55	85.87	1,816.17
Central Indiana Area	EGU	8,138.60	162.37	67,163.40
Central Indiana Area	Nonroad	12,916.03	949.66	1,432.28
Central Indiana Area	Point	5,924.08	843.61	4,671.58
Central Indiana Area	Onroad	36,747.59	940.18	697.59
	Total	68,544.85	2,981.69	75,781.01

2006 (Tons per Year)

Area	Category	NO _x	Direct PM _{2.5}	SO ₂
Central Indiana Area	Area	4,841.00	85.70	1,820.79
Central Indiana Area	EGU	7,272.26	324.14	61,176.10
Central Indiana Area	Nonroad	12,261.91	901.58	1,146.90
Central Indiana Area	Point	7,062.69	700.31	3,974.81
Central Indiana Area	Onroad	34,594.20	891.91	571.50
	Total	66,032.06	2,903.64	68,690.10

2015 (Tons per Year)

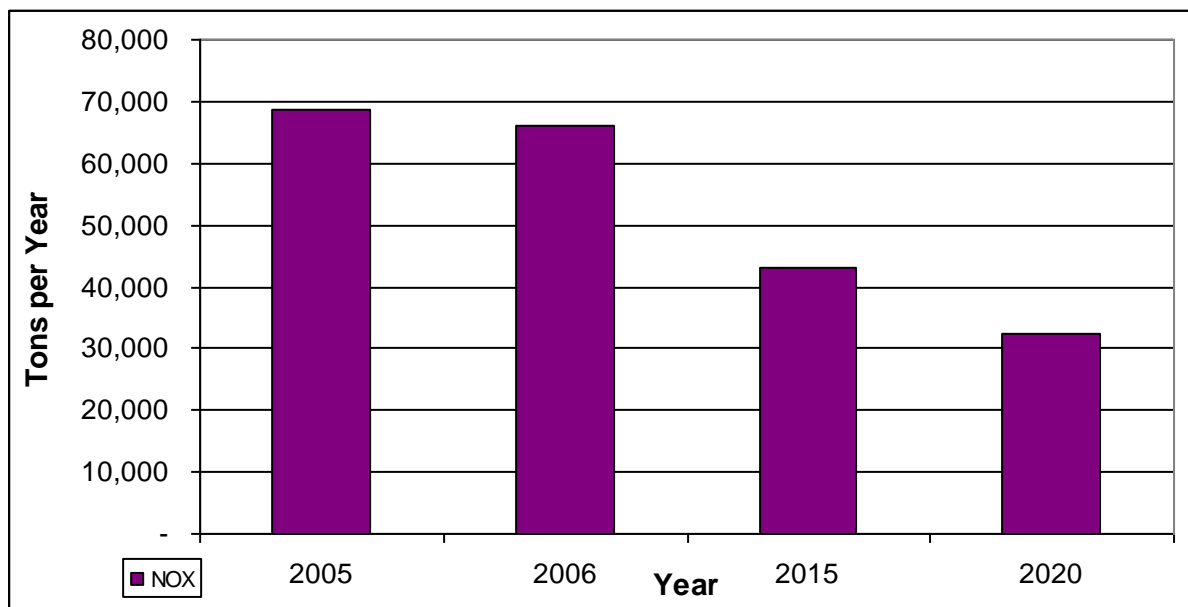
Area	Category	NO _x	Direct PM _{2.5}	SO ₂
Central Indiana Area	Area	4,808.82	81.77	1,778.03
Central Indiana Area	EGU	6,864.90	263.84	28,314.66
Central Indiana Area	Nonroad	7,146.72	537.76	165.60
Central Indiana Area	Point	6,267.99	722.74	1,631.65
Central Indiana Area	Onroad	17,890.21	666.04	184.49
	Total	42,978.64	2,272.14	32,074.43

2020 (Tons per Year)

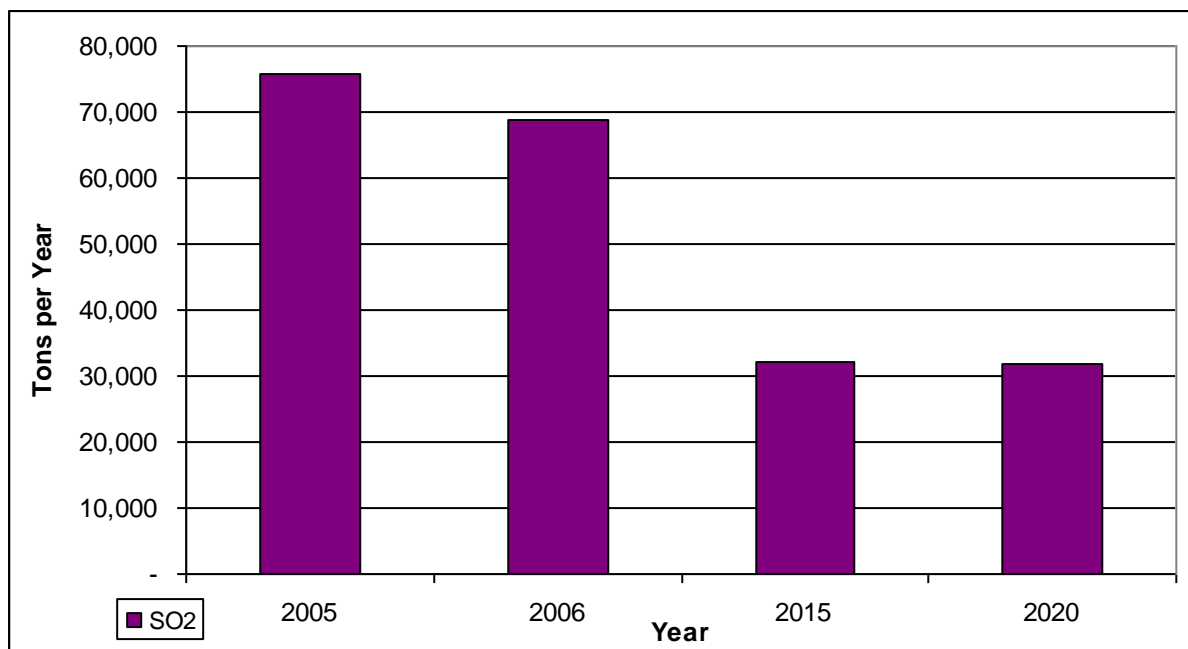
Area	Category	NO _x	Direct PM _{2.5}	SO ₂
Central Indiana Area	Area	4,759.05	80.05	1,749.73
Central Indiana Area	EGU	6,864.47	263.83	28,314.53
Central Indiana Area	Nonroad	5,570.32	427.96	103.03
Central Indiana Area	Point	6,216.37	712.68	1,615.44
Central Indiana Area	Onroad	8,929.80	251.63	180.11
	Total	32,340.01	1,736.16	31,962.83

	2006	2020	Change	% Change
NO_x	66,032.06	32,340.01	-33,692.05	51.02% decrease
SO₂	68,690.10	31,962.83	-36,727.27	53.46% decrease
Direct PM_{2.5}	2,903.64	1,736.16	-1,167.48	40.20% decrease

Comparison of 2005 and 2006 Estimated and 2015 and 2020³ Projected NO_x Emissions for the Central Indiana Area

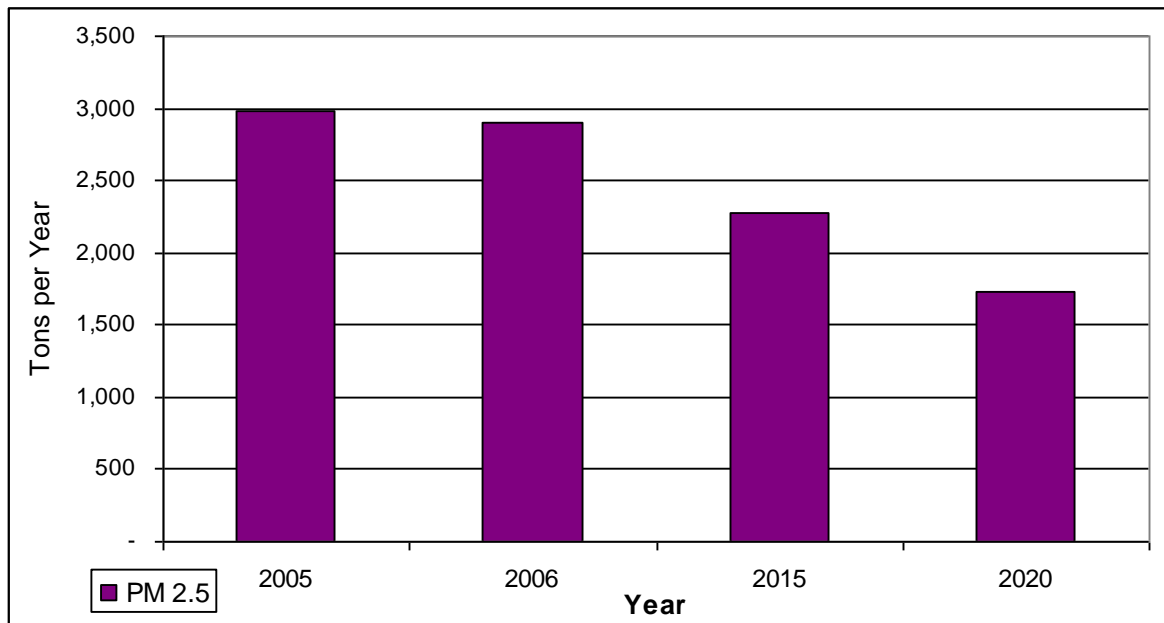


Comparison of 2005 and 2006 Estimated and 2015 and 2020¹ Projected SO₂ Emissions for the Central Indiana Area

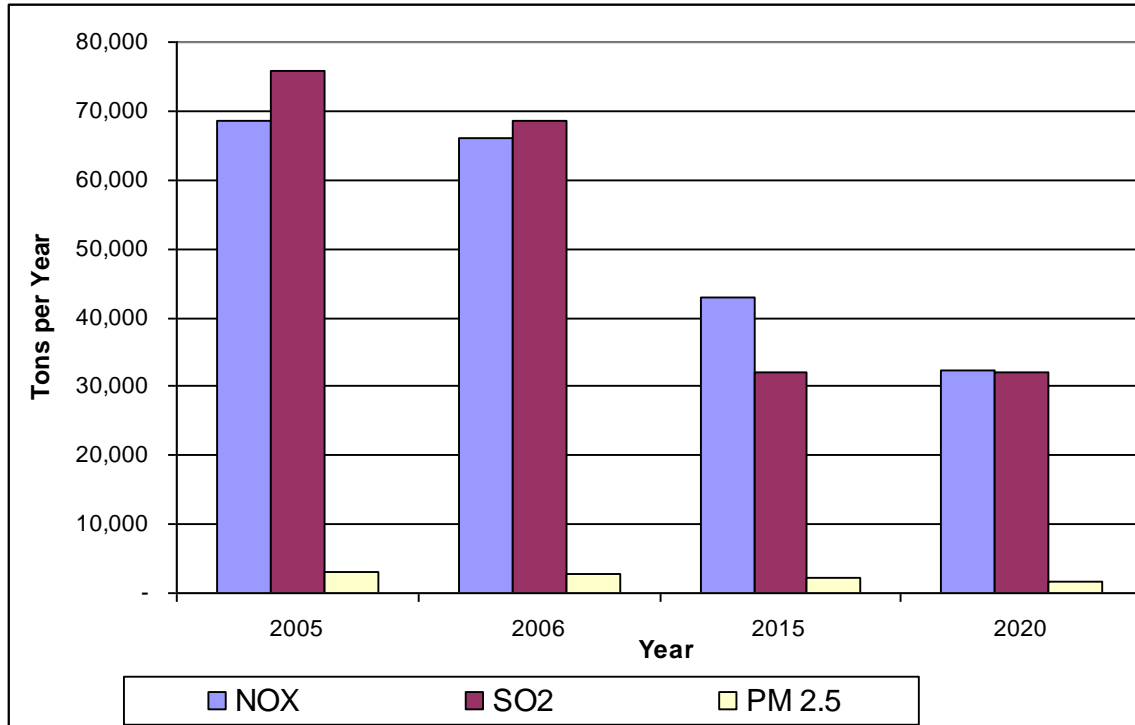


¹ EGU emission projections for the year 2020 are based on 2018 emission estimates.

Comparison of 2005 and 2006 Estimated and 2015 and 2020⁴ Projected Direct PM_{2.5} Emissions for the Central Indiana Area



Comparison of 2005 Estimated and 2015 and 2020² Projected SO₂, NO_x and Direct PM_{2.5} Emission Trends for the Central Indiana Area



² EGU emission projections for the year 2020 are based on 2018 emission estimates.

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APPENDIX F

Mobile Source Input/Output Calculation Files

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:29:49 29NOV06

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	8.0490	62.1330	4.5540	0.0486	0.0918
Freeway	5	4.2960	44.4730	4.2420	0.0486	0.0918
Freeway	10	2.4060	30.2580	3.3620	0.0486	0.0918
Freeway	15	1.8390	26.0240	2.8960	0.0486	0.0918
Freeway	20	1.6130	24.9120	2.8120	0.0486	0.0918
Freeway	25	1.4940	24.2320	2.7620	0.0482	0.0918
Freeway	30	1.4130	23.7880	2.7410	0.0477	0.0918
Freeway	35	1.3380	23.8350	2.7420	0.0473	0.0918
Freeway	40	1.2970	24.6250	2.7900	0.0473	0.0918
Freeway	45	1.2630	25.4590	2.8750	0.0473	0.0918
Freeway	50	1.2310	26.3340	2.9980	0.0473	0.0918
Freeway	55	1.2020	27.2520	3.1700	0.0473	0.0918
Freeway	60	1.1800	28.2580	3.4090	0.0473	0.0918
Freeway	65	1.1620	29.3350	3.7400	0.0473	0.0918
Arterial	3	8.0490	62.1330	4.3340	0.0486	0.0918
Arterial	5	4.2960	44.4730	4.0220	0.0486	0.0918
Arterial	10	2.5180	31.6280	3.3900	0.0486	0.0918
Arterial	15	1.9750	27.6170	2.9840	0.0486	0.0918
Arterial	20	1.6760	25.5230	2.7570	0.0486	0.0918
Arterial	25	1.5130	24.3650	2.6200	0.0482	0.0918
Arterial	30	1.4160	23.8120	2.5410	0.0477	0.0918
Arterial	35	1.3380	23.8350	2.5210	0.0473	0.0918
Arterial	40	1.2970	24.6250	2.5690	0.0473	0.0918
Arterial	45	1.2630	25.4590	2.6540	0.0473	0.0918
Arterial	50	1.2310	26.3340	2.7770	0.0473	0.0918
Arterial	55	1.2020	27.2520	2.9500	0.0473	0.0918
Arterial	60	1.1800	28.2580	3.1880	0.0473	0.0918
Arterial	65	1.1620	29.3350	3.5200	0.0473	0.0918
Local	1	2.0190	23.9870	2.5720	0.0486	0.0918
Ramps	1	1.5850	35.2700	2.6980	0.0473	0.0918

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:29:49 29NOV06

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:02A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	293.	7062.	857.	12.	23.
OTH. PRINC. ART.(2)	100.	1092.	103.	1.	3.
MINOR ARTERIAL (6)	255.	4119.	426.	7.	14.
CENCON & INTRAS (9)	19.	221.	24.	0.	1.
SUBTOTAL	667.	12494.	1409.	21.	40.

-----URBAN-----

INTERSTATE (11)	12644.	274084.	31591.	483.	937.
OTH.FWY & XWAY (12)	798.	14973.	1579.	29.	55.
OTH. PRINC. ART.(14)	8683.	154235.	16191.	296.	572.
MINOR ARTERIAL (16)	8752.	156794.	16536.	306.	591.
CENCON & INTRAS (19)	3993.	47442.	5087.	96.	182.
SUBTOTAL	34869.	647529.	70984.	1209.	2337.

---TOTAL---	35536.	660023.	72393.	1230.	2378.
(TONS)	39.14	726.90	79.73	1.35	2.62

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	248055.	4181.	59.33
OTH. PRINC. ART.(2)	27311.	4189.	6.52
MINOR ARTERIAL (6)	152982.	6928.	22.08
CENCON & INTRAS (9)	9223.	461.	20.00
SUBTOTAL	437571.	15759.	27.77

-----URBAN-----

INTERSTATE (11)	10212290.	212305.	48.10
OTH.FWY & XWAY (12)	601068.	16207.	37.09
OTH. PRINC. ART.(14)	6234334.	193454.	32.23
MINOR ARTERIAL (16)	6442257.	190013.	33.90
CENCON & INTRAS (19)	1977841.	131810.	15.01
SUBTOTAL	25467788.	743787.	34.24
TOTAL	25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 460. 10676. 1262. 18. 35.
OTH. PRINC. ART.(2) 981. 19909. 2080. 37. 72.
MINOR ARTERIAL (6) 274. 5191. 542. 10. 19.
CENCON & INTRAS (9) 415. 4935. 529. 10. 19.
SUBTOTAL 2130. 40711. 4413. 75. 145.

-----URBAN-----

INTERSTATE (11) 860. 17815. 2043. 33. 63.
OTH.FWY & XWAY (12) 1243. 22530. 2376. 43. 84.
OTH. PRINC. ART.(14) 1342. 23811. 2506. 46. 88.
MINOR ARTERIAL (16) 1528. 27833. 2928. 54. 105.
CENCON & INTRAS (19) 1060. 12596. 1351. 26. 48.
SUBTOTAL 6033. 104586. 11204. 201. 388.

---TOTAL--- 8164. 145298. 15618. 276. 534.
(TONS) 8.99 160.02 17.20 0.30 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 385721. 6753. 57.12
OTH. PRINC. ART.(2) 779011. 17137. 45.46
MINOR ARTERIAL (6) 210886. 5282. 39.93
CENCON & INTRAS (9) 205724. 10286. 20.00
SUBTOTAL 1581342. 39458. 40.08

-----URBAN-----

INTERSTATE (11) 687499. 14823. 46.38
OTH.FWY & XWAY (12) 914757. 26588. 34.40
OTH. PRINC. ART.(14) 961449. 29214. 32.91
MINOR ARTERIAL (16) 1141437. 31887. 35.80
CENCON & INTRAS (19) 525137. 34427. 15.25
SUBTOTAL 4230278. 136939. 30.89
TOTAL 5811620. 176396. 32.95

Johnson County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	733.	17433.	2094.	29.	57.
OTH. PRINC. ART.(2)	884.	18454.	1951.	34.	65.
MINOR ARTERIAL (6)	169.	3626.	387.	6.	13.
CENCON & INTRAS (9)	404.	4797.	514.	10.	18.
SUBTOTAL	2190.	44309.	4947.	79.	153.

-----URBAN-----

INTERSTATE (11)	485.	11579.	1397.	19.	38.
OTH.FWY & XWAY (12)	138.	3090.	332.	5.	10.
OTH. PRINC. ART.(14)	711.	13793.	1443.	26.	51.
MINOR ARTERIAL (16)	565.	10606.	1113.	20.	40.
CENCON & INTRAS (19)	534.	6343.	680.	13.	24.
SUBTOTAL	2433.	45410.	4966.	84.	163.

---TOTAL---	4623.	89719.	9913.	163.	316.
(TONS)	5.09	98.81	10.92	0.18	0.35

DAILY TRAVEL STATS

Johnson County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	619536.	10434.	59.38
OTH. PRINC. ART.(2)	709648.	14956.	47.45
MINOR ARTERIAL (6)	137417.	2788.	49.29
CENCON & INTRAS (9)	199981.	9999.	20.00
SUBTOTAL	1666583.	38177.	43.65

-----URBAN-----

INTERSTATE (11)	410738.	6891.	59.60
OTH.FWY & XWAY (12)	114325.	2127.	53.76
OTH. PRINC. ART.(14)	550842.	13387.	41.15
MINOR ARTERIAL (16)	430861.	11191.	38.50
CENCON & INTRAS (19)	264439.	17629.	15.00
SUBTOTAL	1771205.	51225.	34.58
TOTAL	3437786.	89402.	38.45

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 721. 17591. 2166. 29. 56.
OTH. PRINC. ART.(2) 759. 15173. 1588. 28. 55.
MINOR ARTERIAL (6) 98. 1850. 193. 4. 7.
CENCON & INTRAS (9) 367. 4358. 467. 9. 17.
SUBTOTAL 1945. 38971. 4415. 70. 135.
-----URBAN-----
INTERSTATE (11) 456. 11133. 1373. 18. 36.
OTH. PRINC. ART.(14) 808. 15586. 1632. 30. 57.
MINOR ARTERIAL (16) 430. 8110. 848. 16. 30.
CENCON & INTRAS (19) 327. 3884. 416. 8. 15.
SUBTOTAL 2021. 38713. 4270. 71. 138.
---TOTAL--- 3966. 77685. 8685. 141. 273.
(TONS) 4.37 85.56 9.57 0.16 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 614160. 9941. 61.78
OTH. PRINC. ART.(2) 595091. 13744. 43.30
MINOR ARTERIAL (6) 75334. 1912. 39.39
CENCON & INTRAS (9) 181666. 9083. 20.00
SUBTOTAL 1466252. 34681. 42.28
-----URBAN-----
INTERSTATE (11) 388301. 6272. 61.91
OTH. PRINC. ART.(14) 624892. 15372. 40.65
MINOR ARTERIAL (16) 330100. 8404. 39.28
CENCON & INTRAS (19) 161902. 10782. 15.02
SUBTOTAL 1505196. 40830. 36.86
TOTAL 2971450. 75511. 39.35

Hancock County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
OTH. PRINC. ART.(2) 468. 9392. 982. 17. 34.
MINOR ARTERIAL (6) 96. 1815. 189. 3. 7.
CENCON & INTRAS (9) 219. 2597. 278. 5. 10.
SUBTOTAL 783. 13804. 1450. 26. 51.
-----URBAN-----
INTERSTATE (11) 1206. 28245. 3378. 48. 93.
OTH. PRINC. ART.(14) 543. 10456. 1093. 20. 38.
MINOR ARTERIAL (16) 345. 6510. 681. 12. 24.
CENCON & INTRAS (19) 294. 3487. 374. 7. 13.
SUBTOTAL 2387. 48698. 5526. 87. 169.
---TOTAL--- 3170. 62502. 6975. 113. 220.
(TONS) 3.49 68.83 7.68 0.12 0.24

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
OTH. PRINC. ART.(2) 369802. 8348. 44.30
MINOR ARTERIAL (6) 73767. 1852. 39.83
CENCON & INTRAS (9) 108277. 5414. 20.00
SUBTOTAL 551847. 15614. 35.34
-----URBAN-----
INTERSTATE (11) 1013264. 17533. 57.79
OTH. PRINC. ART.(14) 417360. 10392. 40.16
MINOR ARTERIAL (16) 263963. 6772. 38.98
CENCON & INTRAS (19) 145386. 9692. 15.00
SUBTOTAL 1839973. 44390. 41.45
TOTAL 2391821. 60003. 39.86

Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 898. 21822. 2674. 36. 70.
OTH. PRINC. ART.(2) 468. 9413. 982. 18. 34.
MINOR ARTERIAL (6) 13. 248. 26. 0. 1.
CENCON & INTRAS (9) 274. 3259. 349. 7. 12.
SUBTOTAL 1653. 34743. 4032. 61. 118.
-----URBAN-----
INTERSTATE (11) 446. 10890. 1343. 18. 35.
OTH. PRINC. ART.(14) 121. 2221. 234. 4. 8.
MINOR ARTERIAL (16) 38. 715. 75. 1. 3.
CENCON & INTRAS (19) 129. 1554. 167. 3. 6.
SUBTOTAL 733. 15380. 1818. 27. 52.
---TOTAL--- 2387. 50122. 5850. 87. 169.
(TONS) 2.63 55.20 6.44 0.10 0.19

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 764402. 12462. 61.34
OTH. PRINC. ART.(2) 370249. 8282. 44.70
MINOR ARTERIAL (6) 9861. 235. 41.93
CENCON & INTRAS (9) 135863. 6793. 20.00
SUBTOTAL 1280376. 27772. 46.10
-----URBAN-----
INTERSTATE (11) 379793. 6133. 61.92
OTH. PRINC. ART.(14) 89430. 2536. 35.27
MINOR ARTERIAL (16) 29014. 726. 39.96
CENCON & INTRAS (19) 64733. 4236. 15.28
SUBTOTAL 562970. 13631. 41.30
TOTAL 1843346. 41404. 44.52

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE   (1) 1472. 34431. 4109.  58. 114.
OTH. PRINC. ART.(2) 682. 13869. 1448.  26.  50.
MINOR ARTERIAL (6)  64. 1218.  127.   2.   5.
CENCON & INTRAS (9) 353. 4190.  449.   8.  16.
      SUBTOTAL 2571. 53708. 6133.  95. 184.
-----URBAN-----
OTH. PRINC. ART.(14) 174. 3359.  351.   6.  12.
MINOR ARTERIAL (16)  70. 1226.  130.   2.   5.
CENCON & INTRAS (19)  98. 1163.  125.   2.   4.
      SUBTOTAL 341. 5748.  605.  11.  21.
---TOTAL---      2912. 59456. 6738. 106. 205.
(TONS)           3.21 65.48  7.42  0.12 0.23

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE   (1) 1236513.  21441. 57.67
OTH. PRINC. ART.(2) 542162.  11877. 45.65
MINOR ARTERIAL (6)  49406.  1229. 40.21
CENCON & INTRAS (9) 174665.  8733. 20.00
      SUBTOTAL 2002745.  43281. 46.27
-----URBAN-----
OTH. PRINC. ART.(14) 134994.  3256. 41.46
MINOR ARTERIAL (16)  50332.  1556. 32.35
CENCON & INTRAS (19)  48502.  3233. 15.00
      SUBTOTAL 333764.  9471. 35.24
TOTAL         2336510.  52751. 44.29

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 376. 9203. 1135. 15. 29.
OTH. PRINC. ART.(2) 1557. 32212. 3416. 59. 114.
MINOR ARTERIAL (6) 109. 2070. 216. 4. 8.
CENCON & INTRAS (9) 472. 5604. 601. 11. 21.
SUBTOTAL 2515. 49089. 5368. 89. 173.
-----URBAN-----
OTH. PRINC. ART.(14) 333. 6741. 725. 12. 24.
MINOR ARTERIAL (16) 39. 745. 78. 1. 3.
CENCON & INTRAS (19) 73. 866. 93. 2. 3.
SUBTOTAL 445. 8352. 896. 15. 30.
---TOTAL--- 2960. 57441. 6263. 105. 202.
(TONS) 3.26 63.26 6.90 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 320953. 5182. 61.94
OTH. PRINC. ART.(2) 1241825. 26945. 46.09
MINOR ARTERIAL (6) 84092. 2107. 39.91
CENCON & INTRAS (9) 233621. 11681. 20.00
SUBTOTAL 1880492. 45915. 40.96
-----URBAN-----
OTH. PRINC. ART.(14) 258054. 5885. 43.85
MINOR ARTERIAL (16) 30152. 746. 40.40
CENCON & INTRAS (19) 36109. 2407. 15.00
SUBTOTAL 324315. 9039. 35.88
TOTAL 2204807. 54954. 40.12

 Madison County
 VOC EXHST EXHST TOTAL
 HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
 INTERSTATE (1) 915. 21501. 2569. 36. 71.
 OTH. PRINC. ART.(2) 1095. 22169. 2315. 41. 80.
 MINOR ARTERIAL (6) 7. 136. 14. 0. 1.
 CENCON & INTRAS (9) 576. 6994. 749. 14. 27.
 SUBTOTAL 2593. 50800. 5648. 92. 178.
 -----URBAN-----
 INTERSTATE (11) 226. 5437. 658. 9. 18.
 OTH. PRINC. ART.(14) 1129. 21725. 2271. 41. 80.
 CENCON & INTRAS (19) 482. 5726. 614. 12. 22.
 SUBTOTAL 1837. 32888. 3543. 62. 120.
 ---TOTAL--- 4430. 83688. 9190. 154. 297.
 (TONS) 4.88 92.17 10.12 0.17 0.33

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 HPMS TYPE VMT VHT SPEED

-----RURAL-----
 INTERSTATE (1) 769973. 13222. 58.23
 OTH. PRINC. ART.(2) 868383. 19214. 45.20
 MINOR ARTERIAL (6) 5505. 136. 40.36
 CENCON & INTRAS (9) 290330. 14118. 20.56
 SUBTOTAL 1934190. 46690. 41.43
 -----URBAN-----
 INTERSTATE (11) 191742. 3170. 60.49
 OTH. PRINC. ART.(14) 874064. 21398. 40.85
 CENCON & INTRAS (19) 238699. 15913. 15.00
 SUBTOTAL 1304506. 40481. 32.23
 TOTAL 3238696. 87171. 37.15

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----

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INTERSTATE (1) 5868.139720. 16866. 235. 455.
OTH. PRINC. ART.(2) 6996.141682. 14866. 260. 505.
MINOR ARTERIAL (6) 1085. 20273. 2121. 38. 73.
CENCON & INTRAS (9) 3097. 36954. 3962. 75. 141.
      SUBTOTAL 17046. 338629. 37814. 608. 1175.

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-----URBAN-----

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INTERSTATE (11) 16322. 359183. 41783. 628. 1219.
OTH.FWY & XWAY (12) 2179. 40593. 4288. 77. 150.
OTH. PRINC. ART.(14) 13844. 251928. 26446. 481. 931.
MINOR ARTERIAL (16) 11766. 212538. 22389. 413. 800.
CENCON & INTRAS (19) 6989. 83062. 8906. 168. 318.
      SUBTOTAL 51100. 947306. 103813. 1769. 3418.

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---TOTAL---      68146.1285934.141627. 2376. 4593.
(TONS)          75.05 1416.23 155.98 2.62 5.06

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----

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INTERSTATE (1) 4959314. 83614. 59.31
OTH. PRINC. ART.(2) 5503484. 124694. 44.14
MINOR ARTERIAL (6) 799252. 22470. 35.57
CENCON & INTRAS (9) 1539349. 76569. 20.10
      SUBTOTAL 12801399. 307347. 41.65

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-----URBAN-----

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INTERSTATE (11) 13383566. 268552. 49.84
OTH.FWY & XWAY (12) 1630150. 44922. 36.29
OTH. PRINC. ART.(14) 10145422. 294895. 34.40
MINOR ARTERIAL (16) 8718119. 251294. 34.69
CENCON & INTRAS (19) 3462749. 230131. 15.05
      SUBTOTAL 37340080. 1089792. 34.26

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TOTAL          50141528. 1397140. 35.89

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:29:49 29NOV06
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:02A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3
CBD	(1)	1746.	32598.	3529.	61.	117.
CDB FRINGE	(2)	16492.	306301.	33356.	579.	1120.
RESIDENTIAL	(3)	16593.	307727.	33998.	568.	1097.
RURAL	(5)	705.	13396.	1511.	22.	43.
---TOTAL---		35536.	660023.	72393.	1230.	2378.
(TONS)		39.14	726.90	79.73	1.35	2.62

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3
FREEWAY	(1)	12577.	273140.	31835.	484.	939.
EXPRESSWAY	(2)	780.	14624.	1543.	28.	54.
2-WAY ART w/prk	(3)	9003.	160841.	16954.	313.	605.
ONE-WAY ARTERIAL	(4)	955.	17207.	1814.	34.	65.
CENTROID CONNECT	(5)	4010.	47641.	5108.	97.	182.
2-WAY ART wo/prk	(6)	7851.	138564.	14526.	265.	512.
FREEWAY RAMPS	(7)	360.	8007.	612.	11.	21.
---TOTAL---		35536.	660023.	72393.	1230.	2378.
(TONS)		39.14	726.90	79.73	1.35	2.62

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED
CBD	(1)	1278570.	37173.	34.39
CDB FRINGE	(2)	12202720.	346284.	35.24
RESIDENTIAL	(3)	11955264.	359778.	33.23
RURAL	(5)	468815.	16312.	28.74
TOTAL		25905352.	759546.	34.11

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED
FREEWAY	(1)	10233330.	205392.	49.82
EXPRESSWAY	(2)	586970.	15862.	37.00
2-WAY ART w/prk	(3)	6592286.	196863.	33.49
ONE-WAY ARTERIAL	(4)	707732.	20303.	34.86
CENTROID CONNECT	(5)	1986123.	132240.	15.02
2-WAY ART wo/prk	(6)	5571902.	177794.	31.34
FREEWAY RAMPS	(7)	227011.	11094.	20.46
TOTAL		25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 442. 8928. 1008. 16. 31.
RESIDENTIAL (3) 5053. 86769. 9257. 168. 324.
SUBURBAN CBD (4) 470. 8075. 852. 16. 30.
RURAL (5) 2199. 41525. 4500. 77. 148.
---TOTAL--- 8164. 145298. 15618. 276. 534.
(TONS) 8.99 160.02 17.20 0.30 0.59

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1320. 28492. 3305. 51. 99.
EXPRESSWAY (2) 1672. 31401. 3306. 60. 116.
2-WAY ART w/prk (3) 1802. 33024. 3470. 64. 124.
ONE-WAY ARTERIAL (4) 1. 27. 3. 0. 0.
CENTROID CONNECT (5) 1544. 18345. 1967. 37. 70.
2-WAY ART wo/prk (6) 1824. 34009. 3567. 65. 125.
---TOTAL--- 8164. 145298. 15618. 276. 534.
(TONS) 8.99 160.02 17.20 0.30 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 343086. 8216. 41.76
RESIDENTIAL (3) 3524398. 116204. 30.33
SUBURBAN CBD (4) 328871. 10823. 30.39
RURAL (5) 1615266. 41154. 39.25
TOTAL 5811620. 176396. 32.95

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1073220. 21575. 49.74
EXPRESSWAY (2) 1258190. 33883. 37.13
2-WAY ART w/prk (3) 1352323. 37168. 36.38
ONE-WAY ARTERIAL (4) 1114. 31. 36.00
CENTROID CONNECT (5) 764783. 46410. 16.48
2-WAY ART wo/prk (6) 1361990. 37329. 36.49
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 180. 3168. 332. 6. 12.
RESIDENTIAL (3) 2004. 37986. 4186. 70. 135.
SUBURBAN CBD (4) 249. 4257. 448. 8. 16.
RURAL (5) 2190. 44309. 4947. 79. 153.
---TOTAL--- 4623. 89719. 9913. 163. 316.
(TONS) 5.09 98.81 10.92 0.18 0.35

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1218. 29012. 3491. 49. 95.
EXPRESSWAY (2) 222. 5059. 552. 9. 17.
2-WAY ART w/prk (3) 734. 14231. 1500. 27. 52.
CENTROID CONNECT (5) 938. 11140. 1194. 23. 43.
2-WAY ART wo/prk (6) 1511. 30276. 3175. 56. 109.
---TOTAL--- 4623. 89719. 9913. 163. 316.
(TONS) 5.09 98.81 10.92 0.18 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 129445. 3973. 32.58
RESIDENTIAL (3) 1469394. 41519. 35.39
SUBURBAN CBD (4) 172366. 5733. 30.06
RURAL (5) 1666583. 38177. 43.65
TOTAL 3437786. 89402. 38.45

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1030274. 17325. 59.47
EXPRESSWAY (2) 184802. 3332. 55.46
2-WAY ART w/prk (3) 568278. 13979. 40.65
CENTROID CONNECT (5) 464420. 27628. 16.81
2-WAY ART wo/prk (6) 1190014. 27138. 43.85
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 2014. 38583. 4257. 71. 138.
RURAL (5) 1952. 39101. 4428. 70. 135.
---TOTAL--- 3966. 77685. 8685. 141. 273.
(TONS) 4.37 85.56 9.57 0.16 0.30

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1176. 28724. 3539. 47. 92.
2-WAY ART w/prk (3) 506. 9522. 996. 18. 36.
CENTROID CONNECT (5) 693. 8235. 883. 17. 32.
2-WAY ART wo/prk (6) 1590. 31204. 3267. 59. 114.
---TOTAL--- 3966. 77685. 8685. 141. 273.
(TONS) 4.37 85.56 9.57 0.16 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1500019. 40709. 36.85
RURAL (5) 1471429. 34801. 42.28
TOTAL 2971450. 75511. 39.35

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1002461. 16213. 61.83
2-WAY ART w/prk (3) 387983. 9910. 39.15
CENTROID CONNECT (5) 343308. 19859. 17.29
2-WAY ART wo/prk (6) 1237696. 29529. 41.91
TOTAL 2971450. 75511. 39.35

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 2340. 47867. 5439. 86. 166.
SUBURBAN CBD (4) 47. 831. 87. 2. 3.
RURAL (5) 783. 13804. 1450. 26. 51.
---TOTAL--- 3170. 62502. 6975. 113. 220.
(TONS) 3.49 68.83 7.68 0.12 0.24

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1206. 28245. 3378. 48. 93.
2-WAY ART w/prk (3) 441. 8325. 870. 16. 31.
CENTROID CONNECT (5) 512. 6085. 652. 12. 23.
2-WAY ART wo/prk (6) 1011. 19848. 2075. 37. 72.
---TOTAL--- 3170. 62502. 6975. 113. 220.
(TONS) 3.49 68.83 7.68 0.12 0.24

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1806708. 43348. 41.68
SUBURBAN CBD (4) 33265. 1042. 31.94
RURAL (5) 551847. 15614. 35.34
TOTAL 2391821. 60003. 39.86

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1013264. 17533. 57.79
2-WAY ART w/prk (3) 337730. 8624. 39.16
CENTROID CONNECT (5) 253663. 15106. 16.79
2-WAY ART wo/prk (6) 787162. 18740. 42.00
TOTAL 2391821. 60003. 39.86

Shelby County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 721. 15157. 1795. 26. 51.
SUBURBAN CBD (4) 12. 222. 23. 0. 1.
RURAL (5) 1653. 34743. 4032. 61. 118.
---TOTAL--- 2387. 50122. 5850. 87. 169.
(TONS) 2.63 55.20 6.44 0.10 0.19

Shelby County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1344. 32712. 4017. 54. 105.
2-WAY ART w/prk (3) 55. 1062. 112. 2. 4.
CENTROID CONNECT (5) 401. 4767. 511. 10. 18.
2-WAY ART wo/prk (6) 587. 11582. 1210. 22. 42.
---TOTAL--- 2387. 50122. 5850. 87. 169.
(TONS) 2.63 55.20 6.44 0.10 0.19

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 554054. 13375. 41.42
SUBURBAN CBD (4) 8916. 256. 34.77
RURAL (5) 1280376. 27772. 46.10
TOTAL 1843346. 41404. 44.52

Shelby County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1144194. 18595. 61.53
2-WAY ART w/prk (3) 42617. 1039. 41.00
CENTROID CONNECT (5) 198727. 10984. 18.09
2-WAY ART wo/prk (6) 457807. 10785. 42.45
TOTAL 1843346. 41404. 44.52

Boone County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 332. 5587. 588. 11. 21.
SUBURBAN CBD (4) 9. 161. 17. 0. 1.
RURAL (5) 2571. 53708. 6133. 95. 184.
---TOTAL--- 2912. 59456. 6738. 106. 205.
(TONS) 3.21 65.48 7.42 0.12 0.23

Boone County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1472. 34431. 4109. 58. 114.
2-WAY ART w/prk (3) 134. 2444. 257. 5. 9.
CENTROID CONNECT (5) 451. 5353. 574. 11. 20.
2-WAY ART wo/prk (6) 856. 17228. 1799. 32. 62.
---TOTAL--- 2912. 59456. 6738. 106. 205.
(TONS) 3.21 65.48 7.42 0.12 0.23

DAILY TRAVEL STATS

Boone County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 327258. 9268. 35.31
SUBURBAN CBD (4) 6507. 203. 32.13
RURAL (5) 2002745. 43281. 46.27
TOTAL 2336510. 52751. 44.29

Boone County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1336450. 22867. 58.45
2-WAY ART w/prk (3) 99738. 2785. 35.82
CENTROID CONNECT (5) 223166. 11967. 18.65
2-WAY ART wo/prk (6) 677156. 15133. 44.75
TOTAL 2336510. 52751. 44.29

Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 409. 7906. 848. 15. 28.
SUBURBAN CBD (4) 2. 38. 4. 0. 0.
RURAL (5) 2549. 49496. 5411. 90. 174.
---TOTAL--- 2960. 57441. 6263. 105. 202.
(TONS) 3.26 63.26 6.90 0.12 0.22

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 376. 9203. 1135. 15. 29.
EXPRESSWAY (2) 148. 3527. 396. 6. 12.
2-WAY ART w/prk (3) 148. 2814. 294. 5. 10.
CENTROID CONNECT (5) 579. 6878. 737. 14. 26.
2-WAY ART wo/prk (6) 1708. 35018. 3701. 64. 125.
---TOTAL--- 2960. 57441. 6263. 105. 202.
(TONS) 3.26 63.26 6.90 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 305811. 8149. 37.53
SUBURBAN CBD (4) 1508. 41. 37.11
RURAL (5) 1897488. 46765. 40.57
TOTAL 2204807. 54954. 40.12

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 320953. 5182. 61.94
EXPRESSWAY (2) 125369. 2112. 59.36
2-WAY ART w/prk (3) 114244. 2854. 40.03
CENTROID CONNECT (5) 286727. 14938. 19.19
2-WAY ART wo/prk (6) 1357514. 29869. 45.45
TOTAL 2204807. 54954. 40.12

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Madison County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 1739. 31076. 3353.  59. 113.
SUBURBAN CBD (4)  98. 1812.  190.   3.   7.
RURAL (5) 2593. 50800. 5648.  92. 178.
---TOTAL---    4430. 83688. 9190. 154. 297.
(TONS)         4.88 92.17 10.12 0.17 0.33
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Madison County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 1140. 26938. 3227.  45.  88.
2-WAY ART w/prk (3)  7.  136.  14.   0.   1.
CENTROID CONNECT (5) 1041. 12367. 1326.  25.  47.
2-WAY ART wo/prk (6) 2241. 44247. 4623.  83. 161.
---TOTAL---    4430. 83688. 9190. 154. 297.
(TONS)         4.88 92.17 10.12 0.17 0.33
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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 1231188.  38483. 31.99
SUBURBAN CBD (4)  73318.  1998. 36.70
RURAL (5) 1934190.  46690. 41.43
TOTAL      3238696.  87171. 37.15
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Madison County
      DAILY    DAILY AVERAGE
FACILITY TYPE  VMT    VHT  SPEED
-----
FREEWAY (1) 961715.  16392. 58.67
2-WAY ART w/prk (3)  5505.  136. 40.36
CENTROID CONNECT (5) 515575. 29757. 17.33
2-WAY ART wo/prk (6) 1755901. 40886. 42.95
TOTAL      3238696.  87171. 37.15
-----

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Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1746. 32598. 3529. 61. 117.
CDB FRINGE (2) 17115. 318397. 34696. 601. 1163.
RESIDENTIAL (3) 31205. 578660. 63720. 1073. 2072.
SUBURBAN CBD (4) 887. 15396. 1621. 30. 57.
RURAL (5) 17194. 340883. 38060. 612. 1183.
---TOTAL--- 68146.1285934. 141627. 2376. 4593.
(TONS) 75.05 1416.23 155.98 2.62 5.06

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 21829. 490896. 58036. 852. 1654.
EXPRESSWAY (2) 2822. 54611. 5796. 102. 198.
2-WAY ART w/prk (3) 12830. 232399. 24467. 451. 872.
ONE-WAY ARTERIAL (4) 957. 17233. 1817. 34. 65.
CENTROID CONNECT (5) 10169. 120810. 12954. 245. 462.
2-WAY ART wo/prk (6) 19180. 361977. 37944. 682. 1322.
FREEWAY RAMPS (7) 360. 8007. 612. 11. 21.
---TOTAL--- 68146.1285934. 141627. 2376. 4593.
(TONS) 75.05 1416.23 155.98 2.62 5.06

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1278570. 37173. 34.39
CDB FRINGE (2) 12675249. 358473. 35.36
RESIDENTIAL (3) 22674086. 670834. 33.80
SUBURBAN CBD (4) 624751. 20096. 31.09
RURAL (5) 12888741. 310566. 41.50
TOTAL 50141528. 1397140. 35.89

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18115864. 341073. 53.11
EXPRESSWAY (2) 2155330. 55189. 39.05
2-WAY ART w/prk (3) 9500708. 273358. 34.76
ONE-WAY ARTERIAL (4) 708847. 20334. 34.86
CENTROID CONNECT (5) 5036498. 308889. 16.31
2-WAY ART wo/prk (6) 14397146. 387204. 37.18
FREEWAY RAMPS (7) 227011. 11094. 20.46
TOTAL 50141528. 1397140. 35.89

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:28:23 29NOV06

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NO _x	PM	NH ₃
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	9.0410	45.7500	4.2900	0.0508	0.0915
Freeway	5	4.5770	31.8270	3.9990	0.0508	0.0915
Freeway	10	2.4880	20.4890	3.2010	0.0508	0.0915
Freeway	15	1.8810	17.0830	2.7720	0.0508	0.0915
Freeway	20	1.6040	16.0890	2.6770	0.0507	0.0915
Freeway	25	1.4730	15.5340	2.6180	0.0503	0.0915
Freeway	30	1.3820	15.1940	2.5910	0.0499	0.0915
Freeway	35	1.3020	15.2350	2.5880	0.0494	0.0915
Freeway	40	1.2540	15.8450	2.6310	0.0494	0.0915
Freeway	45	1.2140	16.5010	2.7120	0.0494	0.0915
Freeway	50	1.1780	17.2000	2.8310	0.0494	0.0915
Freeway	55	1.1470	17.9450	3.0020	0.0494	0.0915
Freeway	60	1.1240	18.7820	3.2400	0.0494	0.0915
Freeway	65	1.1050	19.6940	3.5750	0.0494	0.0915
Arterial	3	9.0410	45.7500	4.0250	0.0508	0.0915
Arterial	5	4.5770	31.8270	3.7340	0.0508	0.0915
Arterial	10	2.5830	21.5310	3.1440	0.0508	0.0915
Arterial	15	1.9950	18.2980	2.7650	0.0508	0.0915
Arterial	20	1.6580	16.5570	2.5490	0.0507	0.0915
Arterial	25	1.4890	15.6410	2.4180	0.0503	0.0915
Arterial	30	1.3850	15.2130	2.3430	0.0499	0.0915
Arterial	35	1.3020	15.2350	2.3230	0.0494	0.0915
Arterial	40	1.2540	15.8450	2.3660	0.0494	0.0915
Arterial	45	1.2140	16.5010	2.4470	0.0494	0.0915
Arterial	50	1.1780	17.2000	2.5660	0.0494	0.0915
Arterial	55	1.1470	17.9450	2.7370	0.0494	0.0915
Arterial	60	1.1240	18.7820	2.9750	0.0494	0.0915
Arterial	65	1.1050	19.6940	3.3100	0.0494	0.0915
Local	1	2.0930	15.6250	2.3770	0.0508	0.0915
Ramps	1	1.5170	23.9600	2.4100	0.0494	0.0915

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:28:23 29NOV06

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:02A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	279.	4702.	815.	12.	23.
OTH. PRINC. ART.(2)	105.	771.	95.	1.	2.
MINOR ARTERIAL (6)	254.	2708.	393.	8.	14.
CENCON & INTRAS (9)	19.	144.	22.	0.	1.
SUBTOTAL	658.	8325.	1325.	22.	40.

-----URBAN-----

INTERSTATE (11)	12115.	179879.	29876.	505.	934.
OTH.FWY & XWAY (12)	774.	9662.	1457.	30.	55.
OTH. PRINC. ART.(14)	8477.	99408.	14925.	309.	570.
MINOR ARTERIAL (16)	8517.	100678.	15241.	319.	589.
CENCON & INTRAS (19)	4139.	30903.	4701.	100.	181.
SUBTOTAL	34021.	420530.	66199.	1263.	2330.

---TOTAL---	34679.	428855.	67524.	1285.	2370.
(TONS)	38.19	472.31	74.37	1.42	2.61

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	248055.	4181.	59.33
OTH. PRINC. ART.(2)	27311.	4189.	6.52
MINOR ARTERIAL (6)	152982.	6928.	22.08
CENCON & INTRAS (9)	9223.	461.	20.00
SUBTOTAL	437571.	15759.	27.77

-----URBAN-----

INTERSTATE (11)	10212290.	212305.	48.10
OTH.FWY & XWAY (12)	601068.	16207.	37.09
OTH. PRINC. ART.(14)	6234334.	193454.	32.23
MINOR ARTERIAL (16)	6442257.	190013.	33.90
CENCON & INTRAS (19)	1977841.	131810.	15.01
SUBTOTAL	25467788.	743787.	34.24
TOTAL	25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 439. 7059. 1197. 19. 35.
OTH. PRINC. ART.(2) 943. 12916. 1919. 38. 71.
MINOR ARTERIAL (6) 265. 3340. 499. 10. 19.
CENCON & INTRAS (9) 431. 3214. 489. 10. 19.
SUBTOTAL 2077. 26529. 4104. 78. 145.

-----URBAN-----

INTERSTATE (11) 826. 11601. 1931. 34. 63.
OTH.FWY & XWAY (12) 1209. 14505. 2191. 45. 84.
OTH. PRINC. ART.(14) 1311. 15358. 2311. 48. 88.
MINOR ARTERIAL (16) 1484. 17874. 2698. 57. 104.
CENCON & INTRAS (19) 1099. 8205. 1248. 27. 48.
SUBTOTAL 5929. 67543. 10379. 210. 387.

---TOTAL--- 8006. 94073. 14482. 289. 532.
(TONS) 8.82 103.60 15.95 0.32 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 385721. 6753. 57.12
OTH. PRINC. ART.(2) 779011. 17137. 45.46
MINOR ARTERIAL (6) 210886. 5282. 39.93
CENCON & INTRAS (9) 205724. 10286. 20.00
SUBTOTAL 1581342. 39458. 40.08

-----URBAN-----

INTERSTATE (11) 687499. 14823. 46.38
OTH.FWY & XWAY (12) 914757. 26588. 34.40
OTH. PRINC. ART.(14) 961449. 29214. 32.91
MINOR ARTERIAL (16) 1141437. 31887. 35.80
CENCON & INTRAS (19) 525137. 34427. 15.25
SUBTOTAL 4230278. 136939. 30.89
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 698. 11575. 1990. 31. 57.
OTH. PRINC. ART.(2) 848. 12023. 1803. 35. 65.
MINOR ARTERIAL (6) 162. 2370. 358. 7. 13.
CENCON & INTRAS (9) 419. 3125. 475. 10. 18.
SUBTOTAL 2127. 29092. 4626. 83. 152.
-----URBAN-----
INTERSTATE (11) 463. 7692. 1328. 20. 38.
OTH.FWY & XWAY (12) 132. 2030. 308. 6. 10.
OTH. PRINC. ART.(14) 686. 8909. 1331. 27. 50.
MINOR ARTERIAL (16) 547. 6825. 1026. 21. 39.
CENCON & INTRAS (19) 553. 4132. 629. 13. 24.
SUBTOTAL 2381. 29589. 4621. 88. 162.
---TOTAL--- 4508. 58681. 9247. 171. 315.
(TONS) 4.96 64.63 10.18 0.19 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 619536. 10434. 59.38
OTH. PRINC. ART.(2) 709648. 14956. 47.45
MINOR ARTERIAL (6) 137417. 2788. 49.29
CENCON & INTRAS (9) 199981. 9999. 20.00
SUBTOTAL 1666583. 38177. 43.65
-----URBAN-----
INTERSTATE (11) 410738. 6891. 59.60
OTH.FWY & XWAY (12) 114325. 2127. 53.76
OTH. PRINC. ART.(14) 550842. 13387. 41.15
MINOR ARTERIAL (16) 430861. 11191. 38.50
CENCON & INTRAS (19) 264439. 17629. 15.00
SUBTOTAL 1771205. 51225. 34.58
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 686. 11735. 2063. 30. 56.
OTH. PRINC. ART.(2) 731. 9839. 1465. 29. 54.
MINOR ARTERIAL (6) 95. 1190. 178. 4. 7.
CENCON & INTRAS (9) 380. 2839. 432. 9. 17.
SUBTOTAL 1892. 25602. 4138. 73. 134.
-----URBAN-----
INTERSTATE (11) 434. 7429. 1308. 19. 36.
OTH. PRINC. ART.(14) 781. 10059. 1505. 31. 57.
MINOR ARTERIAL (16) 416. 5216. 782. 16. 30.
CENCON & INTRAS (19) 339. 2530. 385. 8. 15.
SUBTOTAL 1969. 25234. 3979. 75. 138.
---TOTAL--- 3862. 50837. 8117. 147. 272.
(TONS) 4.25 55.99 8.94 0.16 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 614160. 9941. 61.78
OTH. PRINC. ART.(2) 595091. 13744. 43.30
MINOR ARTERIAL (6) 75334. 1912. 39.39
CENCON & INTRAS (9) 181666. 9083. 20.00
SUBTOTAL 1466252. 34681. 42.28
-----URBAN-----
INTERSTATE (11) 388301. 6272. 61.91
OTH. PRINC. ART.(14) 624892. 15372. 40.65
MINOR ARTERIAL (16) 330100. 8404. 39.28
CENCON & INTRAS (19) 161902. 10782. 15.02
SUBTOTAL 1505196. 40830. 36.86
TOTAL 2971450. 75511. 39.35

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 451. 6085. 905. 18. 34.
MINOR ARTERIAL ( 6) 93. 1168. 174. 4. 7.
CENCON & INTRAS ( 9) 227. 1692. 257. 6. 10.
      SUBTOTAL 770. 8944. 1337. 27. 50.
-----URBAN-----
INTERSTATE (11) 1149. 18712. 3208. 50. 93.
OTH. PRINC. ART.(14) 524. 6755. 1008. 21. 38.
MINOR ARTERIAL (16) 334. 4190. 627. 13. 24.
CENCON & INTRAS (19) 304. 2272. 346. 7. 13.
      SUBTOTAL 2312. 31929. 5188. 91. 168.
---TOTAL---      3082. 40873. 6525. 119. 219.
(TONS)           3.39 45.01 7.19 0.13 0.24

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 369802. 8348. 44.30
MINOR ARTERIAL ( 6) 73767. 1852. 39.83
CENCON & INTRAS ( 9) 108277. 5414. 20.00
      SUBTOTAL 551847. 15614. 35.34
-----URBAN-----
INTERSTATE (11) 1013264. 17533. 57.79
OTH. PRINC. ART.(14) 417360. 10392. 40.16
MINOR ARTERIAL (16) 263963. 6772. 38.98
CENCON & INTRAS (19) 145386. 9692. 15.00
      SUBTOTAL 1839973. 44390. 41.45
TOTAL        2391821. 60003. 39.86

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Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 855. 14545. 2546. 38. 70.
OTH. PRINC. ART.(2) 450. 6099. 906. 18. 34.
MINOR ARTERIAL (6) 12. 161. 24. 0. 1.
CENCON & INTRAS (9) 284. 2123. 323. 7. 12.
SUBTOTAL 1602. 22928. 3799. 63. 117.
-----URBAN-----
INTERSTATE (11) 424. 7267. 1279. 19. 35.
OTH. PRINC. ART.(14) 117. 1432. 216. 4. 8.
MINOR ARTERIAL (16) 36. 460. 69. 1. 3.
CENCON & INTRAS (19) 134. 1012. 154. 3. 6.
SUBTOTAL 712. 10171. 1718. 28. 52.
---TOTAL--- 2314. 33098. 5517. 91. 169.
(TONS) 2.55 36.45 6.08 0.10 0.19

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 764402. 12462. 61.34
OTH. PRINC. ART.(2) 370249. 8282. 44.70
MINOR ARTERIAL (6) 9861. 235. 41.93
CENCON & INTRAS (9) 135863. 6793. 20.00
SUBTOTAL 1280376. 27772. 46.10
-----URBAN-----
INTERSTATE (11) 379793. 6133. 61.92
OTH. PRINC. ART.(14) 89430. 2536. 35.27
MINOR ARTERIAL (16) 29014. 726. 39.96
CENCON & INTRAS (19) 64733. 4236. 15.28
SUBTOTAL 562970. 13631. 41.30
TOTAL 1843346. 41404. 44.52

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 1403. 22803. 3901. 61. 113.
OTH. PRINC. ART.(2) 655. 8999. 1336. 27. 50.
MINOR ARTERIAL (6) 62. 784. 117. 2. 5.
CENCON & INTRAS (9) 366. 2729. 415. 9. 16.
      SUBTOTAL 2486. 35316. 5769. 99. 183.
-----URBAN-----
OTH. PRINC. ART.(14) 168. 2166. 323. 7. 12.
MINOR ARTERIAL (16) 68. 787. 120. 3. 5.
CENCON & INTRAS (19) 102. 758. 115. 2. 4.
      SUBTOTAL 337. 3711. 558. 12. 21.
---TOTAL---      2823. 39027. 6327. 111. 205.
(TONS)           3.11 42.98 6.97 0.12 0.23

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1236513. 21441. 57.67
OTH. PRINC. ART.(2) 542162. 11877. 45.65
MINOR ARTERIAL (6) 49406. 1229. 40.21
CENCON & INTRAS (9) 174665. 8733. 20.00
      SUBTOTAL 2002745. 43281. 46.27
-----URBAN-----
OTH. PRINC. ART.(14) 134994. 3256. 41.46
MINOR ARTERIAL (16) 50332. 1556. 32.35
CENCON & INTRAS (19) 48502. 3233. 15.00
      SUBTOTAL 333764. 9471. 35.24
TOTAL          2336510. 52751. 44.29

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 358. 6142. 1082. 16. 29.
OTH. PRINC. ART.(2) 1496. 20978. 3157. 61. 114.
MINOR ARTERIAL (6) 106. 1332. 199. 4. 8.
CENCON & INTRAS (9) 489. 3650. 555. 12. 21.
SUBTOTAL 2449. 32102. 4993. 93. 172.
-----URBAN-----
OTH. PRINC. ART.(14) 323. 4404. 672. 13. 24.
MINOR ARTERIAL (16) 38. 480. 72. 1. 3.
CENCON & INTRAS (19) 76. 564. 86. 2. 3.
SUBTOTAL 436. 5448. 829. 16. 30.
---TOTAL--- 2885. 37550. 5822. 109. 202.
(TONS) 3.18 41.35 6.41 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 320953. 5182. 61.94
OTH. PRINC. ART.(2) 1241825. 26945. 46.09
MINOR ARTERIAL (6) 84092. 2107. 39.91
CENCON & INTRAS (9) 233621. 11681. 20.00
SUBTOTAL 1880492. 45915. 40.96
-----URBAN-----
OTH. PRINC. ART.(14) 258054. 5885. 43.85
MINOR ARTERIAL (16) 30152. 746. 40.40
CENCON & INTRAS (19) 36109. 2407. 15.00
SUBTOTAL 324315. 9039. 35.88
TOTAL 2204807. 54954. 40.12

 Madison County
 VOC EXHST EXHST TOTAL
 HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
 INTERSTATE (1) 872. 14249. 2439. 38. 70.
 OTH. PRINC. ART.(2) 1053. 14379. 2135. 43. 79.
 MINOR ARTERIAL (6) 7. 87. 13. 0. 1.
 CENCON & INTRAS (9) 595. 4556. 692. 15. 27.
 SUBTOTAL 2527. 33271. 5280. 96. 177.
 -----URBAN-----
 INTERSTATE (11) 215. 3617. 626. 9. 18.
 OTH. PRINC. ART.(14) 1091. 14009. 2093. 43. 80.
 CENCON & INTRAS (19) 500. 3730. 567. 12. 22.
 SUBTOTAL 1805. 21356. 3286. 65. 119.
 ---TOTAL--- 4332. 54627. 8566. 161. 296.
 (TONS) 4.77 60.16 9.43 0.18 0.33

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 HPMS TYPE VMT VHT SPEED

-----RURAL-----
 INTERSTATE (1) 769973. 13222. 58.23
 OTH. PRINC. ART.(2) 868383. 19214. 45.20
 MINOR ARTERIAL (6) 5505. 136. 40.36
 CENCON & INTRAS (9) 290330. 14118. 20.56
 SUBTOTAL 1934190. 46690. 41.43
 -----URBAN-----
 INTERSTATE (11) 191742. 3170. 60.49
 OTH. PRINC. ART.(14) 874064. 21398. 40.85
 CENCON & INTRAS (19) 238699. 15913. 15.00
 SUBTOTAL 1304506. 40481. 32.23
 TOTAL 3238696. 87171. 37.15

Total Model Area
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 5590. 92809. 16032. 245. 454.
OTH. PRINC. ART.(2) 6732. 92089. 13721. 272. 504.
MINOR ARTERIAL (6) 1055. 13140. 1956. 40. 73.
CENCON & INTRAS (9) 3210. 24072. 3661. 78. 141.
SUBTOTAL 16588. 222109. 35371. 635. 1171.

-----URBAN-----

INTERSTATE (11) 15625. 236196. 39555. 656. 1215.
OTH.FWY & XWAY (12) 2114. 26198. 3956. 81. 149.
OTH. PRINC. ART.(14) 13477. 162501. 24382. 503. 928.
MINOR ARTERIAL (16) 11440. 136511. 20633. 432. 797.
CENCON & INTRAS (19) 7245. 54106. 8231. 176. 317.
SUBTOTAL 49902. 615512. 96757. 1848. 3407.

---TOTAL--- 66490. 837622. 132127. 2482. 4578.
(TONS) 73.23 922.49 145.51 2.73 5.04

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 4959314. 83614. 59.31
OTH. PRINC. ART.(2) 5503484. 124694. 44.14
MINOR ARTERIAL (6) 799252. 22470. 35.57
CENCON & INTRAS (9) 1539349. 76569. 20.10
SUBTOTAL 12801399. 307347. 41.65

-----URBAN-----

INTERSTATE (11) 13383566. 268552. 49.84
OTH.FWY & XWAY (12) 1630150. 44922. 36.29
OTH. PRINC. ART.(14) 10145422. 294895. 34.40
MINOR ARTERIAL (16) 8718119. 251294. 34.69
CENCON & INTRAS (19) 3462749. 230131. 15.05
SUBTOTAL 37340080. 1089792. 34.26

TOTAL 50141528. 1397140. 35.89

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:28:23 29NOV06
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:02A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3
CBD	(1)	1697.	21146.	3287.	64.	117.
CDB FRINGE	(2)	16058.	198251.	31064.	605.	1116.
RESIDENTIAL	(3)	16230.	200534.	31753.	593.	1094.
RURAL	(5)	695.	8925.	1421.	23.	43.
---TOTAL---		34679.	428855.	67524.	1285.	2370.
(TONS)		38.19	472.31	74.37	1.42	2.61

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3
FREEWAY	(1)	12049.	179141.	30143.	506.	936.
EXPRESSWAY	(2)	756.	9437.	1423.	29.	54.
2-WAY ART w/prk	(3)	8767.	103340.	15627.	327.	603.
ONE-WAY ARTERIAL	(4)	929.	11043.	1672.	35.	65.
CENTROID CONNECT	(5)	4157.	31033.	4721.	101.	182.
2-WAY ART wo/prk	(6)	7676.	89421.	13391.	276.	510.
FREEWAY RAMPS	(7)	344.	5439.	547.	11.	21.
---TOTAL---		34679.	428855.	67524.	1285.	2370.
(TONS)		38.19	472.31	74.37	1.42	2.61

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED
CBD	(1)	1278570.	37173.	34.39
CDB FRINGE	(2)	12202720.	346284.	35.24
RESIDENTIAL	(3)	11955264.	359778.	33.23
RURAL	(5)	468815.	16312.	28.74
TOTAL		25905352.	759546.	34.11

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED
FREEWAY	(1)	10233330.	205392.	49.82
EXPRESSWAY	(2)	586970.	15862.	37.00
2-WAY ART w/prk	(3)	6592286.	196863.	33.49
ONE-WAY ARTERIAL	(4)	707732.	20303.	34.86
CENTROID CONNECT	(5)	1986123.	132240.	15.02
2-WAY ART wo/prk	(6)	5571902.	177794.	31.34
FREEWAY RAMPS	(7)	227011.	11094.	20.46
TOTAL		25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 426. 5822. 948. 17. 31.
RESIDENTIAL (3) 4970. 55985. 8565. 175. 322.
SUBURBAN CBD (4) 462. 5207. 786. 16. 30.
RURAL (5) 2148. 27059. 4184. 80. 148.
---TOTAL--- 8006. 94073. 14482. 289. 532.
(TONS) 8.82 103.60 15.95 0.32 0.59

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1264. 18660. 3128. 53. 98.
EXPRESSWAY (2) 1621. 20274. 3049. 62. 115.
2-WAY ART w/prk (3) 1749. 21214. 3197. 67. 124.
ONE-WAY ARTERIAL (4) 1. 17. 3. 0. 0.
CENTROID CONNECT (5) 1601. 11950. 1818. 39. 70.
2-WAY ART wo/prk (6) 1770. 21958. 3289. 67. 125.
---TOTAL--- 8006. 94073. 14482. 289. 532.
(TONS) 8.82 103.60 15.95 0.32 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 343086. 8216. 41.76
RESIDENTIAL (3) 3524398. 116204. 30.33
SUBURBAN CBD (4) 328871. 10823. 30.39
RURAL (5) 1615266. 41154. 39.25
TOTAL 5811620. 176396. 32.95

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1073220. 21575. 49.74
EXPRESSWAY (2) 1258190. 33883. 37.13
2-WAY ART w/prk (3) 1352323. 37168. 36.38
ONE-WAY ARTERIAL (4) 1114. 31. 36.00
CENTROID CONNECT (5) 764783. 46410. 16.48
2-WAY ART wo/prk (6) 1361990. 37329. 36.49
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 177. 2040. 306. 6. 12.
RESIDENTIAL (3) 1958. 24797. 3902. 73. 134.
SUBURBAN CBD (4) 245. 2751. 413. 9. 16.
RURAL (5) 2127. 29092. 4626. 83. 152.
---TOTAL--- 4508. 58681. 9247. 171. 315.
(TONS) 4.96 64.63 10.18 0.19 0.35

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1161. 19267. 3317. 51. 94.
EXPRESSWAY (2) 212. 3336. 513. 9. 17.
2-WAY ART w/prk (3) 709. 9196. 1384. 28. 52.
CENTROID CONNECT (5) 972. 7257. 1104. 24. 42.
2-WAY ART wo/prk (6) 1454. 19626. 2929. 59. 109.
---TOTAL--- 4508. 58681. 9247. 171. 315.
(TONS) 4.96 64.63 10.18 0.19 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 129445. 3973. 32.58
RESIDENTIAL (3) 1469394. 41519. 35.39
SUBURBAN CBD (4) 172366. 5733. 30.06
RURAL (5) 1666583. 38177. 43.65
TOTAL 3437786. 89402. 38.45

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1030274. 17325. 59.47
EXPRESSWAY (2) 184802. 3332. 55.46
2-WAY ART w/prk (3) 568278. 13979. 40.65
CENTROID CONNECT (5) 464420. 27628. 16.81
2-WAY ART wo/prk (6) 1190014. 27138. 43.85
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1963. 25150. 3967. 74. 137.
RURAL (5) 1899. 25687. 4151. 73. 135.
---TOTAL--- 3862. 50837. 8117. 147. 272.
(TONS) 4.25 55.99 8.94 0.16 0.30

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1120. 19164. 3371. 50. 92.
2-WAY ART w/prk (3) 490. 6123. 917. 19. 36.
CENTROID CONNECT (5) 719. 5364. 816. 17. 31.
2-WAY ART wo/prk (6) 1534. 20186. 3012. 61. 113.
---TOTAL--- 3862. 50837. 8117. 147. 272.
(TONS) 4.25 55.99 8.94 0.16 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1500019. 40709. 36.85
RURAL (5) 1471429. 34801. 42.28
TOTAL 2971450. 75511. 39.35

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1002461. 16213. 61.83
2-WAY ART w/prk (3) 387983. 9910. 39.15
CENTROID CONNECT (5) 343308. 19859. 17.29
2-WAY ART wo/prk (6) 1237696. 29529. 41.91
TOTAL 2971450. 75511. 39.35

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 2266. 31391. 5108. 89. 165.
SUBURBAN CBD (4) 46. 538. 80. 2. 3.
RURAL (5) 770. 8944. 1337. 27. 50.
---TOTAL--- 3082. 40873. 6525. 119. 219.
(TONS) 3.39 45.01 7.19 0.13 0.24

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1149. 18712. 3208. 50. 93.
2-WAY ART w/prk (3) 427. 5358. 802. 17. 31.
CENTROID CONNECT (5) 531. 3963. 603. 13. 23.
2-WAY ART wo/prk (6) 975. 12840. 1913. 39. 72.
---TOTAL--- 3082. 40873. 6525. 119. 219.
(TONS) 3.39 45.01 7.19 0.13 0.24

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1806708. 43348. 41.68
SUBURBAN CBD (4) 33265. 1042. 31.94
RURAL (5) 551847. 15614. 35.34
TOTAL 2391821. 60003. 39.86

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1013264. 17533. 57.79
2-WAY ART w/prk (3) 337730. 8624. 39.16
CENTROID CONNECT (5) 253663. 15106. 16.79
2-WAY ART wo/prk (6) 787162. 18740. 42.00
TOTAL 2391821. 60003. 39.86

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Shelby County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 700. 10027. 1696. 27. 51.
SUBURBAN CBD (4) 12. 144. 21. 0. 1.
RURAL (5) 1602. 22928. 3799. 63. 117.
---TOTAL--- 2314. 33098. 5517. 91. 169.
(TONS) 2.55 36.45 6.08 0.10 0.19
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Shelby County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 1279. 21811. 3825. 57. 105.
2-WAY ART w/prk (3) 53. 685. 103. 2. 4.
CENTROID CONNECT (5) 416. 3105. 472. 10. 18.
2-WAY ART wo/prk (6) 565. 7497. 1116. 23. 42.
---TOTAL--- 2314. 33098. 5517. 91. 169.
(TONS) 2.55 36.45 6.08 0.10 0.19
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DAILY TRAVEL STATS

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Shelby County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 554054. 13375. 41.42
SUBURBAN CBD (4) 8916. 256. 34.77
RURAL (5) 1280376. 27772. 46.10
TOTAL 1843346. 41404. 44.52
-----
Shelby County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1144194. 18595. 61.53
2-WAY ART w/prk (3) 42617. 1039. 41.00
CENTROID CONNECT (5) 198727. 10984. 18.09
2-WAY ART wo/prk (6) 457807. 10785. 42.45
TOTAL 1843346. 41404. 44.52
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Boone County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 328. 3607. 542. 11. 21.
SUBURBAN CBD (4) 9. 104. 16. 0. 1.
RURAL (5) 2486. 35316. 5769. 99. 183.
---TOTAL--- 2823. 39027. 6327. 111. 205.
(TONS) 3.11 42.98 6.97 0.12 0.23

Boone County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1403. 22803. 3901. 61. 113.
2-WAY ART w/prk (3) 130. 1571. 237. 5. 9.
CENTROID CONNECT (5) 467. 3487. 530. 11. 20.
2-WAY ART wo/prk (6) 823. 11166. 1659. 33. 62.
---TOTAL--- 2823. 39027. 6327. 111. 205.
(TONS) 3.11 42.98 6.97 0.12 0.23

DAILY TRAVEL STATS

Boone County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 327258. 9268. 35.31
SUBURBAN CBD (4) 6507. 203. 32.13
RURAL (5) 2002745. 43281. 46.27
TOTAL 2336510. 52751. 44.29

Boone County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1336450. 22867. 58.45
2-WAY ART w/prk (3) 99738. 2785. 35.82
CENTROID CONNECT (5) 223166. 11967. 18.65
2-WAY ART wo/prk (6) 677156. 15133. 44.75
TOTAL 2336510. 52751. 44.29

Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 398. 5158. 785. 15. 28.
SUBURBAN CBD (4) 2. 25. 4. 0. 0.
RURAL (5) 2484. 32367. 5033. 94. 174.
---TOTAL--- 2885. 37550. 5822. 109. 202.
(TONS) 3.18 41.35 6.41 0.12 0.22

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 358. 6142. 1082. 16. 29.
EXPRESSWAY (2) 141. 2341. 369. 6. 11.
2-WAY ART w/prk (3) 143. 1811. 271. 6. 10.
CENTROID CONNECT (5) 600. 4480. 682. 15. 26.
2-WAY ART wo/prk (6) 1642. 22776. 3419. 67. 124.
---TOTAL--- 2885. 37550. 5822. 109. 202.
(TONS) 3.18 41.35 6.41 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 305811. 8149. 37.53
SUBURBAN CBD (4) 1508. 41. 37.11
RURAL (5) 1897488. 46765. 40.57
TOTAL 2204807. 54954. 40.12

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 320953. 5182. 61.94
EXPRESSWAY (2) 125369. 2112. 59.36
2-WAY ART w/prk (3) 114244. 2854. 40.03
CENTROID CONNECT (5) 286727. 14938. 19.19
2-WAY ART wo/prk (6) 1357514. 29869. 45.45
TOTAL 2204807. 54954. 40.12

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1710. 20188. 3111. 61. 113.
 SUBURBAN CBD (4) 95. 1168. 175. 4. 7.
 RURAL (5) 2527. 33271. 5280. 96. 177.
 ---TOTAL--- 4332. 54627. 8566. 161. 296.
 (TONS) 4.77 60.16 9.43 0.18 0.33

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1087. 17866. 3065. 48. 88.
 2-WAY ART w/prk (3) 7. 87. 13. 0. 1.
 CENTROID CONNECT (5) 1079. 8056. 1226. 26. 47.
 2-WAY ART wo/prk (6) 2159. 28618. 4262. 87. 161.
 ---TOTAL--- 4332. 54627. 8566. 161. 296.
 (TONS) 4.77 60.16 9.43 0.18 0.33

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1231188. 38483. 31.99
 SUBURBAN CBD (4) 73318. 1998. 36.70
 RURAL (5) 1934190. 46690. 41.43
 TOTAL 3238696. 87171. 37.15

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 961715. 16392. 58.67
 2-WAY ART w/prk (3) 5505. 136. 40.36
 CENTROID CONNECT (5) 515575. 29757. 17.33
 2-WAY ART wo/prk (6) 1755901. 40886. 42.95
 TOTAL 3238696. 87171. 37.15

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1697. 21146. 3287. 64. 117.
CDB FRINGE (2) 16661. 206112. 32317. 628. 1159.
RESIDENTIAL (3) 30523. 376838. 59428. 1120. 2065.
SUBURBAN CBD (4) 872. 9936. 1495. 31. 57.
RURAL (5) 16737. 223590. 35600. 639. 1179.
---TOTAL--- 66490. 837622. 132127. 2482. 4578.
(TONS) 73.23 922.49 145.51 2.73 5.04

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 20871. 323566. 55040. 890. 1648.
EXPRESSWAY (2) 2729. 35389. 5354. 107. 197.
2-WAY ART w/prk (3) 12475. 149386. 22550. 471. 869.
ONE-WAY ARTERIAL (4) 930. 11060. 1674. 35. 65.
CENTROID CONNECT (5) 10541. 78695. 11972. 256. 461.
2-WAY ART wo/prk (6) 18598. 234087. 34991. 713. 1317.
FREEWAY RAMPS (7) 344. 5439. 547. 11. 21.
---TOTAL--- 66490. 837622. 132127. 2482. 4578.
(TONS) 73.23 922.49 145.51 2.73 5.04

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1278570. 37173. 34.39
CDB FRINGE (2) 12675249. 358473. 35.36
RESIDENTIAL (3) 22674086. 670834. 33.80
SUBURBAN CBD (4) 624751. 20096. 31.09
RURAL (5) 12888741. 310566. 41.50
TOTAL 50141528. 1397140. 35.89

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18115864. 341073. 53.11
EXPRESSWAY (2) 2155330. 55189. 39.05
2-WAY ART w/prk (3) 9500708. 273358. 34.76
ONE-WAY ARTERIAL (4) 708847. 20334. 34.86
CENTROID CONNECT (5) 5036498. 308889. 16.31
2-WAY ART wo/prk (6) 14397146. 387204. 37.18
FREEWAY RAMPS (7) 227011. 11094. 20.46
TOTAL 50141528. 1397140. 35.89

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:27:13 29NOV06

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	9.6020	53.9110	4.2730	0.0508	0.0915
Freeway	5	4.8750	37.6720	3.9930	0.0508	0.0915
Freeway	10	2.6440	24.5210	3.2060	0.0508	0.0915
Freeway	15	1.9990	20.5790	2.7820	0.0508	0.0915
Freeway	20	1.7150	19.4930	2.6910	0.0507	0.0915
Freeway	25	1.5740	18.8310	2.6370	0.0503	0.0915
Freeway	30	1.4760	18.4020	2.6130	0.0499	0.0915
Freeway	35	1.3890	18.4150	2.6120	0.0494	0.0915
Freeway	40	1.3380	19.0950	2.6580	0.0494	0.0915
Freeway	45	1.2950	19.8230	2.7410	0.0494	0.0915
Freeway	50	1.2560	20.5930	2.8630	0.0494	0.0915
Freeway	55	1.2210	21.4100	3.0350	0.0494	0.0915
Freeway	60	1.1950	22.3180	3.2760	0.0494	0.0915
Freeway	65	1.1740	23.3020	3.6130	0.0494	0.0915
Arterial	3	9.6020	53.9110	4.0080	0.0508	0.0915
Arterial	5	4.8750	37.6720	3.7280	0.0508	0.0915
Arterial	10	2.7520	25.7530	3.1510	0.0508	0.0915
Arterial	15	2.1280	22.0150	2.7780	0.0508	0.0915
Arterial	20	1.7750	20.0490	2.5650	0.0507	0.0915
Arterial	25	1.5930	18.9580	2.4370	0.0503	0.0915
Arterial	30	1.4800	18.4240	2.3650	0.0499	0.0915
Arterial	35	1.3890	18.4150	2.3470	0.0494	0.0915
Arterial	40	1.3380	19.0950	2.3930	0.0494	0.0915
Arterial	45	1.2950	19.8230	2.4760	0.0494	0.0915
Arterial	50	1.2560	20.5930	2.5980	0.0494	0.0915
Arterial	55	1.2210	21.4100	2.7700	0.0494	0.0915
Arterial	60	1.1950	22.3180	3.0110	0.0494	0.0915
Arterial	65	1.1740	23.3020	3.3480	0.0494	0.0915
Local	1	2.2070	18.8600	2.3840	0.0508	0.0915
Ramps	1	1.6330	28.7590	2.4520	0.0494	0.0915

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
 EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
 - RUN TIME: 07:27:13 29NOV06

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:02A

MOBILE6 INPUT FILE :

 Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	297.	5584.	824.	12.	23.
OTH. PRINC. ART.(2)	112.	915.	95.	1.	2.
MINOR ARTERIAL (6)	271.	3253.	397.	8.	14.
CENCON & INTRAS (9)	20.	174.	22.	0.	1.
SUBTOTAL	701.	9926.	1337.	22.	40.

-----URBAN-----

INTERSTATE (11)	12909.	215060.	30203.	505.	934.
OTH.FWY & XWAY (12)	826.	11639.	1472.	30.	55.
OTH. PRINC. ART.(14)	9048.	119908.	15078.	309.	570.
MINOR ARTERIAL (16)	9091.	121558.	15398.	319.	589.
CENCON & INTRAS (19)	4364.	37302.	4715.	100.	181.
SUBTOTAL	36238.	505466.	66866.	1263.	2330.

---TOTAL---	36939.	515392.	68204.	1285.	2370.
(TONS)	40.68	567.61	75.11	1.42	2.61

DAILY TRAVEL STATS

 Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	248055.	4181.	59.33
OTH. PRINC. ART.(2)	27311.	4189.	6.52
MINOR ARTERIAL (6)	152982.	6928.	22.08
CENCON & INTRAS (9)	9223.	461.	20.00
SUBTOTAL	437571.	15759.	27.77

-----URBAN-----

INTERSTATE (11)	10212290.	212305.	48.10
OTH.FWY & XWAY (12)	601068.	16207.	37.09
OTH. PRINC. ART.(14)	6234334.	193454.	32.23
MINOR ARTERIAL (16)	6442257.	190013.	33.90
CENCON & INTRAS (19)	1977841.	131810.	15.01
SUBTOTAL	25467788.	743787.	34.24
TOTAL	25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 467. 8407. 1210. 19. 35.
OTH. PRINC. ART.(2) 1006. 15509. 1942. 38. 71.
MINOR ARTERIAL (6) 282. 4025. 505. 10. 19.
CENCON & INTRAS (9) 454. 3880. 490. 10. 19.
SUBTOTAL 2209. 31822. 4147. 78. 145.

-----URBAN-----

INTERSTATE (11) 880. 13908. 1952. 34. 63.
OTH.FWY & XWAY (12) 1290. 17496. 2214. 45. 84.
OTH. PRINC. ART.(14) 1399. 18519. 2334. 48. 88.
MINOR ARTERIAL (16) 1585. 21573. 2727. 57. 104.
CENCON & INTRAS (19) 1159. 9904. 1252. 27. 48.
SUBTOTAL 6313. 81401. 10478. 210. 387.

---TOTAL--- 8522. 113223. 14625. 289. 532.
(TONS) 9.38 124.69 16.11 0.32 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 385721. 6753. 57.12
OTH. PRINC. ART.(2) 779011. 17137. 45.46
MINOR ARTERIAL (6) 210886. 5282. 39.93
CENCON & INTRAS (9) 205724. 10286. 20.00
SUBTOTAL 1581342. 39458. 40.08

-----URBAN-----

INTERSTATE (11) 687499. 14823. 46.38
OTH.FWY & XWAY (12) 914757. 26588. 34.40
OTH. PRINC. ART.(14) 961449. 29214. 32.91
MINOR ARTERIAL (16) 1141437. 31887. 35.80
CENCON & INTRAS (19) 525137. 34427. 15.25
SUBTOTAL 4230278. 136939. 30.89
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 742. 13760. 2012. 31. 57.
OTH. PRINC. ART.(2) 904. 14411. 1825. 35. 65.
MINOR ARTERIAL (6) 173. 2837. 362. 7. 13.
CENCON & INTRAS (9) 441. 3772. 477. 10. 18.
SUBTOTAL 2261. 34779. 4676. 83. 152.
-----URBAN-----
INTERSTATE (11) 492. 9143. 1342. 20. 38.
OTH.FWY & XWAY (12) 141. 2424. 312. 6. 10.
OTH. PRINC. ART.(14) 732. 10720. 1346. 27. 50.
MINOR ARTERIAL (16) 583. 8227. 1038. 21. 39.
CENCON & INTRAS (19) 584. 4987. 630. 13. 24.
SUBTOTAL 2531. 35502. 4668. 88. 162.
---TOTAL--- 4792. 70281. 9343. 171. 315.
(TONS) 5.28 77.40 10.29 0.19 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 619536. 10434. 59.38
OTH. PRINC. ART.(2) 709648. 14956. 47.45
MINOR ARTERIAL (6) 137417. 2788. 49.29
CENCON & INTRAS (9) 199981. 9999. 20.00
SUBTOTAL 1666583. 38177. 43.65
-----URBAN-----
INTERSTATE (11) 410738. 6891. 59.60
OTH.FWY & XWAY (12) 114325. 2127. 53.76
OTH. PRINC. ART.(14) 550842. 13387. 41.15
MINOR ARTERIAL (16) 430861. 11191. 38.50
CENCON & INTRAS (19) 264439. 17629. 15.00
SUBTOTAL 1771205. 51225. 34.58
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 729. 13922. 2086. 30. 56.
OTH. PRINC. ART.(2) 780. 11820. 1482. 29. 54.
MINOR ARTERIAL (6) 101. 1434. 180. 4. 7.
CENCON & INTRAS (9) 401. 3426. 433. 9. 17.
SUBTOTAL 2011. 30603. 4181. 73. 134.
-----URBAN-----
INTERSTATE (11) 461. 8813. 1322. 19. 36.
OTH. PRINC. ART.(14) 833. 12109. 1522. 31. 57.
MINOR ARTERIAL (16) 444. 6288. 790. 16. 30.
CENCON & INTRAS (19) 357. 3054. 386. 8. 15.
SUBTOTAL 2095. 30263. 4021. 75. 138.
---TOTAL--- 4106. 60866. 8202. 147. 272.
(TONS) 4.52 67.03 9.03 0.16 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 614160. 9941. 61.78
OTH. PRINC. ART.(2) 595091. 13744. 43.30
MINOR ARTERIAL (6) 75334. 1912. 39.39
CENCON & INTRAS (9) 181666. 9083. 20.00
SUBTOTAL 1466252. 34681. 42.28
-----URBAN-----
INTERSTATE (11) 388301. 6272. 61.91
OTH. PRINC. ART.(14) 624892. 15372. 40.65
MINOR ARTERIAL (16) 330100. 8404. 39.28
CENCON & INTRAS (19) 161902. 10782. 15.02
SUBTOTAL 1505196. 40830. 36.86
TOTAL 2971450. 75511. 39.35

Hancock County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
OTH. PRINC. ART.(2) 481. 7311. 916. 18. 34.
MINOR ARTERIAL (6) 99. 1407. 176. 4. 7.
CENCON & INTRAS (9) 239. 2042. 258. 6. 10.
SUBTOTAL 818. 10760. 1351. 27. 50.
-----URBAN-----
INTERSTATE (11) 1223. 22266. 3243. 50. 93.
OTH. PRINC. ART.(14) 559. 8129. 1019. 21. 38.
MINOR ARTERIAL (16) 356. 5050. 634. 13. 24.
CENCON & INTRAS (19) 321. 2742. 347. 7. 13.
SUBTOTAL 2459. 38188. 5243. 91. 168.
---TOTAL--- 3278. 48948. 6594. 119. 219.
(TONS) 3.61 53.91 7.26 0.13 0.24

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
OTH. PRINC. ART.(2) 369802. 8348. 44.30
MINOR ARTERIAL (6) 73767. 1852. 39.83
CENCON & INTRAS (9) 108277. 5414. 20.00
SUBTOTAL 551847. 15614. 35.34
-----URBAN-----
INTERSTATE (11) 1013264. 17533. 57.79
OTH. PRINC. ART.(14) 417360. 10392. 40.16
MINOR ARTERIAL (16) 263963. 6772. 38.98
CENCON & INTRAS (19) 145386. 9692. 15.00
SUBTOTAL 1839973. 44390. 41.45
TOTAL 2391821. 60003. 39.86

Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 909. 17263. 2574. 38. 70.
OTH. PRINC. ART.(2) 480. 7328. 916. 18. 34.
MINOR ARTERIAL (6) 13. 193. 25. 0. 1.
CENCON & INTRAS (9) 300. 2562. 324. 7. 12.
SUBTOTAL 1702. 27346. 3838. 63. 117.
-----URBAN-----
INTERSTATE (11) 451. 8620. 1293. 19. 35.
OTH. PRINC. ART.(14) 125. 1726. 218. 4. 8.
MINOR ARTERIAL (16) 39. 554. 70. 1. 3.
CENCON & INTRAS (19) 141. 1222. 154. 3. 6.
SUBTOTAL 756. 12122. 1735. 28. 52.
---TOTAL--- 2458. 39469. 5574. 91. 169.
(TONS) 2.71 43.47 6.14 0.10 0.19

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 764402. 12462. 61.34
OTH. PRINC. ART.(2) 370249. 8282. 44.70
MINOR ARTERIAL (6) 9861. 235. 41.93
CENCON & INTRAS (9) 135863. 6793. 20.00
SUBTOTAL 1280376. 27772. 46.10
-----URBAN-----
INTERSTATE (11) 379793. 6133. 61.92
OTH. PRINC. ART.(14) 89430. 2536. 35.27
MINOR ARTERIAL (16) 29014. 726. 39.96
CENCON & INTRAS (19) 64733. 4236. 15.28
SUBTOTAL 562970. 13631. 41.30
TOTAL 1843346. 41404. 44.52

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE   (1) 1493. 27138. 3944. 61. 113.
OTH. PRINC. ART.(2) 699. 10806. 1352. 27. 50.
MINOR ARTERIAL (6) 66. 945. 118. 2. 5.
CENCON & INTRAS (9) 385. 3294. 416. 9. 16.
      SUBTOTAL 2643. 42183. 5830. 99. 183.
-----URBAN-----
OTH. PRINC. ART.(14) 179. 2608. 327. 7. 12.
MINOR ARTERIAL (16) 72. 951. 121. 3. 5.
CENCON & INTRAS (19) 107. 915. 116. 2. 4.
      SUBTOTAL 358. 4474. 563. 12. 21.
---TOTAL---      3002. 46657. 6393. 111. 205.
(TONS)           3.31 51.38 7.04 0.12 0.23

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE   (1) 1236513. 21441. 57.67
OTH. PRINC. ART.(2) 542162. 11877. 45.65
MINOR ARTERIAL (6) 49406. 1229. 40.21
CENCON & INTRAS (9) 174665. 8733. 20.00
      SUBTOTAL 2002745. 43281. 46.27
-----URBAN-----
OTH. PRINC. ART.(14) 134994. 3256. 41.46
MINOR ARTERIAL (16) 50332. 1556. 32.35
CENCON & INTRAS (19) 48502. 3233. 15.00
      SUBTOTAL 333764. 9471. 35.24
TOTAL        2336510. 52751. 44.29

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 381. 7285. 1093. 16. 29.
OTH. PRINC. ART.(2) 1595. 25151. 3194. 61. 114.
MINOR ARTERIAL (6) 113. 1605. 201. 4. 8.
CENCON & INTRAS (9) 516. 4406. 557. 12. 21.
SUBTOTAL 2604. 38448. 5046. 93. 172.
-----URBAN-----
OTH. PRINC. ART.(14) 343. 5275. 679. 13. 24.
MINOR ARTERIAL (16) 40. 578. 72. 1. 3.
CENCON & INTRAS (19) 80. 681. 86. 2. 3.
SUBTOTAL 463. 6534. 838. 16. 30.
---TOTAL--- 3067. 44981. 5884. 109. 202.
(TONS) 3.38 49.54 6.48 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 320953. 5182. 61.94
OTH. PRINC. ART.(2) 1241825. 26945. 46.09
MINOR ARTERIAL (6) 84092. 2107. 39.91
CENCON & INTRAS (9) 233621. 11681. 20.00
SUBTOTAL 1880492. 45915. 40.96
-----URBAN-----
OTH. PRINC. ART.(14) 258054. 5885. 43.85
MINOR ARTERIAL (16) 30152. 746. 40.40
CENCON & INTRAS (19) 36109. 2407. 15.00
SUBTOTAL 324315. 9039. 35.88
TOTAL 2204807. 54954. 40.12

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Madison County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 927. 16954. 2466. 38. 70.
OTH. PRINC. ART.(2) 1123. 17268. 2161. 43. 79.
MINOR ARTERIAL (6) 7. 105. 13. 0. 1.
CENCON & INTRAS (9) 628. 5497. 695. 15. 27.
      SUBTOTAL 2686. 39824. 5335. 96. 177.
-----URBAN-----
INTERSTATE (11) 229. 4296. 633. 9. 18.
OTH. PRINC. ART.(14) 1164. 16868. 2116. 43. 80.
CENCON & INTRAS (19) 527. 4502. 569. 12. 22.
      SUBTOTAL 1919. 25666. 3318. 65. 119.
---TOTAL---      4605. 65491. 8653. 161. 296.
(TONS)           5.07 72.13 9.53 0.18 0.33

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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 769973. 13222. 58.23
OTH. PRINC. ART.(2) 868383. 19214. 45.20
MINOR ARTERIAL (6) 5505. 136. 40.36
CENCON & INTRAS (9) 290330. 14118. 20.56
      SUBTOTAL 1934190. 46690. 41.43
-----URBAN-----
INTERSTATE (11) 191742. 3170. 60.49
OTH. PRINC. ART.(14) 874064. 21398. 40.85
CENCON & INTRAS (19) 238699. 15913. 15.00
      SUBTOTAL 1304506. 40481. 32.23
TOTAL        3238696. 87171. 37.15

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----

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INTERSTATE (1) 5945. 110313. 16208. 245. 454.
OTH. PRINC. ART.(2) 7180. 110520. 13883. 272. 504.
MINOR ARTERIAL (6) 1126. 15805. 1977. 40. 73.
CENCON & INTRAS (9) 3385. 29054. 3672. 78. 141.
      SUBTOTAL 17635. 265691. 35741. 635. 1171.

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-----URBAN-----

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INTERSTATE (11) 16644. 282105. 39988. 656. 1215.
OTH.FWY & XWAY (12) 2256. 31560. 3998. 81. 149.
OTH. PRINC. ART.(14) 14382. 195863. 24639. 503. 928.
MINOR ARTERIAL (16) 12211. 164779. 20850. 432. 797.
CENCON & INTRAS (19) 7640. 65308. 8255. 176. 317.
      SUBTOTAL 53133. 739618. 97730. 1848. 3407.

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---TOTAL---      70769.1005308.133471. 2482. 4578.
(TONS)          77.94 1107.17 146.99 2.73 5.04

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----

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INTERSTATE (1) 4959314. 83614. 59.31
OTH. PRINC. ART.(2) 5503484. 124694. 44.14
MINOR ARTERIAL (6) 799252. 22470. 35.57
CENCON & INTRAS (9) 1539349. 76569. 20.10
      SUBTOTAL 12801399. 307347. 41.65

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-----URBAN-----

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INTERSTATE (11) 13383566. 268552. 49.84
OTH.FWY & XWAY (12) 1630150. 44922. 36.29
OTH. PRINC. ART.(14) 10145422. 294895. 34.40
MINOR ARTERIAL (16) 8718119. 251294. 34.69
CENCON & INTRAS (19) 3462749. 230131. 15.05
      SUBTOTAL 37340080. 1089792. 34.26

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TOTAL          50141528. 1397140. 35.89

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:27:13 29NOV06
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:02A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST HC	EXHST CO	TOTAL NOx	PM2.5	NH3
CBD	(1)	1811.	25455.	3321.	64.	117.	
CDB FRINGE	(2)	17112.	238564.	31382.	605.	1116.	
RESIDENTIAL	(3)	17276.	240732.	32066.	593.	1094.	
RURAL	(5)	740.	10641.	1435.	23.	43.	
---TOTAL---		36939.	515392.	68204.	1285.	2370.	
(TONS)		40.68	567.61	75.11	1.42	2.61	

Marion County

FACILITY		VOC	EXHST HC	EXHST CO	TOTAL NOx	PM2.5	NH3
FREEWAY	(1)	12835.	214115.	30470.	506.	936.	
EXPRESSWAY	(2)	807.	11369.	1438.	29.	54.	
2-WAY ART w/prk	(3)	9358.	124755.	15788.	327.	603.	
ONE-WAY ARTERIAL	(4)	992.	13334.	1689.	35.	65.	
CENTROID CONNECT	(5)	4383.	37458.	4735.	101.	182.	
2-WAY ART wo/prk	(6)	8193.	107832.	13527.	276.	510.	
FREEWAY RAMPS	(7)	371.	6529.	557.	11.	21.	
---TOTAL---		36939.	515392.	68204.	1285.	2370.	
(TONS)		40.68	567.61	75.11	1.42	2.61	

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY VMT	DAILY AVERAGE VHT	SPEED
CBD	(1)	1278570.	37173.	34.39
CDB FRINGE	(2)	12202720.	346284.	35.24
RESIDENTIAL	(3)	11955264.	359778.	33.23
RURAL	(5)	468815.	16312.	28.74
TOTAL		25905352.	759546.	34.11

Marion County

FACILITY TYPE		DAILY VMT	DAILY AVERAGE VHT	SPEED
FREEWAY	(1)	10233330.	205392.	49.82
EXPRESSWAY	(2)	586970.	15862.	37.00
2-WAY ART w/prk	(3)	6592286.	196863.	33.49
ONE-WAY ARTERIAL	(4)	707732.	20303.	34.86
CENTROID CONNECT	(5)	1986123.	132240.	15.02
2-WAY ART wo/prk	(6)	5571902.	177794.	31.34
FREEWAY RAMPS	(7)	227011.	11094.	20.46
TOTAL		25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 455. 6980. 958. 17. 31.
RESIDENTIAL (3) 5291. 67502. 8646. 175. 322.
SUBURBAN CBD (4) 492. 6279. 794. 16. 30.
RURAL (5) 2284. 32462. 4228. 80. 148.
---TOTAL--- 8522. 113223. 14625. 289. 532.
(TONS) 9.38 124.69 16.11 0.32 0.59

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1347. 22315. 3162. 53. 98.
EXPRESSWAY (2) 1729. 24416. 3082. 62. 115.
2-WAY ART w/prk (3) 1867. 25599. 3231. 67. 124.
ONE-WAY ARTERIAL (4) 2. 21. 3. 0. 0.
CENTROID CONNECT (5) 1688. 14424. 1823. 39. 70.
2-WAY ART wo/prk (6) 1889. 26449. 3324. 67. 125.
---TOTAL--- 8522. 113223. 14625. 289. 532.
(TONS) 9.38 124.69 16.11 0.32 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 343086. 8216. 41.76
RESIDENTIAL (3) 3524398. 116204. 30.33
SUBURBAN CBD (4) 328871. 10823. 30.39
RURAL (5) 1615266. 41154. 39.25
TOTAL 5811620. 176396. 32.95

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1073220. 21575. 49.74
EXPRESSWAY (2) 1258190. 33883. 37.13
2-WAY ART w/prk (3) 1352323. 37168. 36.38
ONE-WAY ARTERIAL (4) 1114. 31. 36.00
CENTROID CONNECT (5) 764783. 46410. 16.48
2-WAY ART wo/prk (6) 1361990. 37329. 36.49
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 188. 2460. 309. 6. 12.
RESIDENTIAL (3) 2082. 29728. 3942. 73. 134.
SUBURBAN CBD (4) 261. 3314. 417. 9. 16.
RURAL (5) 2261. 34779. 4676. 83. 152.
---TOTAL--- 4792. 70281. 9343. 171. 315.
(TONS) 5.28 77.40 10.29 0.19 0.35

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1234. 22903. 3354. 51. 94.
EXPRESSWAY (2) 225. 3978. 519. 9. 17.
2-WAY ART w/prk (3) 756. 11064. 1400. 28. 52.
CENTROID CONNECT (5) 1025. 8759. 1107. 24. 42.
2-WAY ART wo/prk (6) 1551. 23578. 2963. 59. 109.
---TOTAL--- 4792. 70281. 9343. 171. 315.
(TONS) 5.28 77.40 10.29 0.19 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 129445. 3973. 32.58
RESIDENTIAL (3) 1469394. 41519. 35.39
SUBURBAN CBD (4) 172366. 5733. 30.06
RURAL (5) 1666583. 38177. 43.65
TOTAL 3437786. 89402. 38.45

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1030274. 17325. 59.47
EXPRESSWAY (2) 184802. 3332. 55.46
2-WAY ART w/prk (3) 568278. 13979. 40.65
CENTROID CONNECT (5) 464420. 27628. 16.81
2-WAY ART wo/prk (6) 1190014. 27138. 43.85
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 2088. 30162. 4008. 74. 137.
RURAL (5) 2018. 30704. 4194. 73. 135.
---TOTAL--- 4106. 60866. 8202. 147. 272.
(TONS) 4.52 67.03 9.03 0.16 0.30

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1190. 22735. 3408. 50. 92.
2-WAY ART w/prk (3) 523. 7381. 928. 19. 36.
CENTROID CONNECT (5) 758. 6475. 818. 17. 31.
2-WAY ART wo/prk (6) 1636. 24275. 3047. 61. 113.
---TOTAL--- 4106. 60866. 8202. 147. 272.
(TONS) 4.52 67.03 9.03 0.16 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1500019. 40709. 36.85
RURAL (5) 1471429. 34801. 42.28
TOTAL 2971450. 75511. 39.35

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1002461. 16213. 61.83
2-WAY ART w/prk (3) 387983. 9910. 39.15
CENTROID CONNECT (5) 343308. 19859. 17.29
2-WAY ART wo/prk (6) 1237696. 29529. 41.91
TOTAL 2971450. 75511. 39.35

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 2410. 37541. 5162. 89. 165.
SUBURBAN CBD (4) 49. 647. 81. 2. 3.
RURAL (5) 818. 10760. 1351. 27. 50.
---TOTAL--- 3278. 48948. 6594. 119. 219.
(TONS) 3.61 53.91 7.26 0.13 0.24

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1223. 22266. 3243. 50. 93.
2-WAY ART w/prk (3) 455. 6457. 811. 17. 31.
CENTROID CONNECT (5) 560. 4784. 605. 13. 23.
2-WAY ART wo/prk (6) 1040. 15440. 1935. 39. 72.
---TOTAL--- 3278. 48948. 6594. 119. 219.
(TONS) 3.61 53.91 7.26 0.13 0.24

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1806708. 43348. 41.68
SUBURBAN CBD (4) 33265. 1042. 31.94
RURAL (5) 551847. 15614. 35.34
TOTAL 2391821. 60003. 39.86

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1013264. 17533. 57.79
2-WAY ART w/prk (3) 337730. 8624. 39.16
CENTROID CONNECT (5) 253663. 15106. 16.79
2-WAY ART wo/prk (6) 787162. 18740. 42.00
TOTAL 2391821. 60003. 39.86

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Shelby County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 743. 11949. 1714. 27. 51.
SUBURBAN CBD (4) 13. 173. 22. 0. 1.
RURAL (5) 1702. 27346. 3838. 63. 117.
---TOTAL--- 2458. 39469. 5574. 91. 169.
(TONS) 2.71 43.47 6.14 0.10 0.19
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Shelby County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 1360. 25883. 3867. 57. 105.
2-WAY ART w/prk (3) 57. 825. 104. 2. 4.
CENTROID CONNECT (5) 439. 3748. 474. 10. 18.
2-WAY ART wo/prk (6) 603. 9013. 1129. 23. 42.
---TOTAL--- 2458. 39469. 5574. 91. 169.
(TONS) 2.71 43.47 6.14 0.10 0.19
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DAILY TRAVEL STATS

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Shelby County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 554054. 13375. 41.42
SUBURBAN CBD (4) 8916. 256. 34.77
RURAL (5) 1280376. 27772. 46.10
TOTAL 1843346. 41404. 44.52
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Shelby County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1144194. 18595. 61.53
2-WAY ART w/prk (3) 42617. 1039. 41.00
CENTROID CONNECT (5) 198727. 10984. 18.09
2-WAY ART wo/prk (6) 457807. 10785. 42.45
TOTAL 1843346. 41404. 44.52
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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 349. 4348. 547. 11. 21.
SUBURBAN CBD (4) 10. 126. 16. 0. 1.
RURAL (5) 2643. 42183. 5830. 99. 183.
---TOTAL--- 3002. 46657. 6393. 111. 205.
(TONS) 3.31 51.38 7.04 0.12 0.23
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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 1493. 27138. 3944. 61. 113.
2-WAY ART w/prk (3) 138. 1896. 239. 5. 9.
CENTROID CONNECT (5) 493. 4209. 532. 11. 20.
2-WAY ART wo/prk (6) 878. 13414. 1678. 33. 62.
---TOTAL--- 3002. 46657. 6393. 111. 205.
(TONS) 3.31 51.38 7.04 0.12 0.23
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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 327258. 9268. 35.31
SUBURBAN CBD (4) 6507. 203. 32.13
RURAL (5) 2002745. 43281. 46.27
TOTAL 2336510. 52751. 44.29
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1336450. 22867. 58.45
2-WAY ART w/prk (3) 99738. 2785. 35.82
CENTROID CONNECT (5) 223166. 11967. 18.65
2-WAY ART wo/prk (6) 677156. 15133. 44.75
TOTAL 2336510. 52751. 44.29
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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 424. 6184. 793. 15. 28.
SUBURBAN CBD (4) 2. 29. 4. 0. 0.
RURAL (5) 2642. 38768. 5086. 94. 174.
---TOTAL--- 3067. 44981. 5884. 109. 202.
(TONS) 3.38 49.54 6.48 0.12 0.22

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 381. 7285. 1093. 16. 29.
EXPRESSWAY (2) 150. 2783. 374. 6. 11.
2-WAY ART w/prk (3) 153. 2183. 274. 6. 10.
CENTROID CONNECT (5) 633. 5408. 684. 15. 26.
2-WAY ART wo/prk (6) 1751. 27322. 3459. 67. 124.
---TOTAL--- 3067. 44981. 5884. 109. 202.
(TONS) 3.38 49.54 6.48 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 305811. 8149. 37.53
SUBURBAN CBD (4) 1508. 41. 37.11
RURAL (5) 1897488. 46765. 40.57
TOTAL 2204807. 54954. 40.12

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 320953. 5182. 61.94
EXPRESSWAY (2) 125369. 2112. 59.36
2-WAY ART w/prk (3) 114244. 2854. 40.03
CENTROID CONNECT (5) 286727. 14938. 19.19
2-WAY ART wo/prk (6) 1357514. 29869. 45.45
TOTAL 2204807. 54954. 40.12

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1817. 24259. 3141. 61. 113.
 SUBURBAN CBD (4) 102. 1407. 177. 4. 7.
 RURAL (5) 2686. 39824. 5335. 96. 177.
 ---TOTAL--- 4605. 65491. 8653. 161. 296.
 (TONS) 5.07 72.13 9.53 0.18 0.33

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1156. 21250. 3099. 48. 88.
 2-WAY ART w/prk (3) 7. 105. 13. 0. 1.
 CENTROID CONNECT (5) 1138. 9724. 1229. 26. 47.
 2-WAY ART wo/prk (6) 2304. 34412. 4312. 87. 161.
 ---TOTAL--- 4605. 65491. 8653. 161. 296.
 (TONS) 5.07 72.13 9.53 0.18 0.33

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1231188. 38483. 31.99
 SUBURBAN CBD (4) 73318. 1998. 36.70
 RURAL (5) 1934190. 46690. 41.43
 TOTAL 3238696. 87171. 37.15

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 961715. 16392. 58.67
 2-WAY ART w/prk (3) 5505. 136. 40.36
 CENTROID CONNECT (5) 515575. 29757. 17.33
 2-WAY ART wo/prk (6) 1755901. 40886. 42.95
 TOTAL 3238696. 87171. 37.15

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1811. 25455. 3321. 64. 117.
CDB FRINGE (2) 17755. 248004. 32649. 628. 1159.
RESIDENTIAL (3) 32482. 452404. 60019. 1120. 2065.
SUBURBAN CBD (4) 928. 11975. 1509. 31. 57.
RURAL (5) 17794. 267468. 35973. 639. 1179.
---TOTAL--- 70769. 1005308. 133471. 2482. 4578.
(TONS) 77.94 1107.17 146.99 2.73 5.04

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 22219. 385890. 55639. 890. 1648.
EXPRESSWAY (2) 2912. 42546. 5413. 107. 197.
2-WAY ART w/prk (3) 13314. 180264. 22787. 471. 869.
ONE-WAY ARTERIAL (4) 993. 13355. 1692. 35. 65.
CENTROID CONNECT (5) 11116. 94988. 12007. 256. 461.
2-WAY ART wo/prk (6) 19845. 281735. 35376. 713. 1317.
FREEWAY RAMPS (7) 371. 6529. 557. 11. 21.
---TOTAL--- 70769. 1005308. 133471. 2482. 4578.
(TONS) 77.94 1107.17 146.99 2.73 5.04

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1278570. 37173. 34.39
CDB FRINGE (2) 12675249. 358473. 35.36
RESIDENTIAL (3) 22674086. 670834. 33.80
SUBURBAN CBD (4) 624751. 20096. 31.09
RURAL (5) 12888741. 310566. 41.50
TOTAL 50141528. 1397140. 35.89

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18115864. 341073. 53.11
EXPRESSWAY (2) 2155330. 55189. 39.05
2-WAY ART w/prk (3) 9500708. 273358. 34.76
ONE-WAY ARTERIAL (4) 708847. 20334. 34.86
CENTROID CONNECT (5) 5036498. 308889. 16.31
2-WAY ART wo/prk (6) 14397146. 387204. 37.18
FREEWAY RAMPS (7) 227011. 11094. 20.46
TOTAL 50141528. 1397140. 35.89

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:26:03 29NOV06

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	7.3160	70.8530	5.0450	0.0521	0.0914
Freeway	5	4.1800	50.8460	4.7050	0.0521	0.0914
Freeway	10	2.4370	34.7950	3.7500	0.0521	0.0914
Freeway	15	1.8970	30.0480	3.2460	0.0521	0.0914
Freeway	20	1.7090	28.7760	3.1590	0.0521	0.0914
Freeway	25	1.5930	27.9970	3.1070	0.0516	0.0914
Freeway	30	1.5150	27.4900	3.0850	0.0512	0.0914
Freeway	35	1.4420	27.5160	3.0860	0.0508	0.0914
Freeway	40	1.4060	28.3520	3.1360	0.0508	0.0914
Freeway	45	1.3770	29.2410	3.2250	0.0508	0.0914
Freeway	50	1.3490	30.1780	3.3540	0.0508	0.0914
Freeway	55	1.3220	31.1650	3.5350	0.0508	0.0914
Freeway	60	1.3020	32.2540	3.7850	0.0508	0.0914
Freeway	65	1.2860	33.4280	4.1320	0.0508	0.0914
Arterial	3	7.3160	70.8530	4.7580	0.0521	0.0914
Arterial	5	4.1800	50.8460	4.4180	0.0521	0.0914
Arterial	10	2.5610	36.3100	3.7350	0.0521	0.0914
Arterial	15	2.0470	31.8150	3.2970	0.0521	0.0914
Arterial	20	1.7790	29.4620	3.0520	0.0521	0.0914
Arterial	25	1.6150	28.1550	2.9050	0.0516	0.0914
Arterial	30	1.5190	27.5180	2.8200	0.0512	0.0914
Arterial	35	1.4420	27.5160	2.7980	0.0508	0.0914
Arterial	40	1.4060	28.3520	2.8490	0.0508	0.0914
Arterial	45	1.3770	29.2410	2.9380	0.0508	0.0914
Arterial	50	1.3490	30.1780	3.0670	0.0508	0.0914
Arterial	55	1.3220	31.1650	3.2480	0.0508	0.0914
Arterial	60	1.3020	32.2540	3.4980	0.0508	0.0914
Arterial	65	1.2860	33.4280	3.8450	0.0508	0.0914
Local	1	2.0600	27.9210	2.8060	0.0521	0.0914
Ramps	1	1.7230	40.3520	2.9560	0.0508	0.0914

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:26:03 29NOV06

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:02A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	323.	8059.	950.	13.	23.
OTH. PRINC. ART.(2)	98.	1250.	113.	1.	2.
MINOR ARTERIAL (6)	268.	4737.	471.	8.	14.
CENCON & INTRAS (9)	19.	258.	26.	0.	1.
SUBTOTAL	709.	14303.	1560.	22.	40.

-----URBAN-----

INTERSTATE (11)	13845.	313915.	35257.	519.	933.
OTH.FWY & XWAY (12)	864.	17235.	1749.	31.	55.
OTH. PRINC. ART.(14)	9326.	177745.	17951.	318.	570.
MINOR ARTERIAL (16)	9431.	180802.	18341.	328.	589.
CENCON & INTRAS (19)	4074.	55223.	5550.	103.	181.
SUBTOTAL	37540.	744920.	78848.	1298.	2327.

---TOTAL---	38249.	759224.	80408.	1321.	2367.
(TONS)	42.12	836.15	88.56	1.45	2.61

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	248055.	4181.	59.33
OTH. PRINC. ART.(2)	27311.	4189.	6.52
MINOR ARTERIAL (6)	152982.	6928.	22.08
CENCON & INTRAS (9)	9223.	461.	20.00
SUBTOTAL	437571.	15759.	27.77

-----URBAN-----

INTERSTATE (11)	10212290.	212305.	48.10
OTH.FWY & XWAY (12)	601068.	16207.	37.09
OTH. PRINC. ART.(14)	6234334.	193454.	32.23
MINOR ARTERIAL (16)	6442257.	190013.	33.90
CENCON & INTRAS (19)	1977841.	131810.	15.01
SUBTOTAL	25467788.	743787.	34.24
TOTAL	25905352.	759546.	34.11

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 507. 12199. 1404. 20. 35.
OTH. PRINC. ART.(2) 1070. 22861. 2302. 40. 71.
MINOR ARTERIAL (6) 297. 5977. 601. 11. 19.
CENCON & INTRAS (9) 424. 5744. 577. 11. 19.
SUBTOTAL 2297. 46781. 4885. 81. 145.

-----URBAN-----

INTERSTATE (11) 938. 20440. 2287. 35. 63.
OTH.FWY & XWAY (12) 1340. 25962. 2634. 47. 84.
OTH. PRINC. ART.(14) 1441. 27440. 2776. 49. 88.
MINOR ARTERIAL (16) 1650. 32084. 3247. 58. 104.
CENCON & INTRAS (19) 1082. 14662. 1474. 27. 48.
SUBTOTAL 6452. 120588. 12419. 216. 387.

---TOTAL--- 8750. 167369. 17304. 297. 531.
(TONS) 9.64 184.33 19.06 0.33 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 385721. 6753. 57.12
OTH. PRINC. ART.(2) 779011. 17137. 45.46
MINOR ARTERIAL (6) 210886. 5282. 39.93
CENCON & INTRAS (9) 205724. 10286. 20.00
SUBTOTAL 1581342. 39458. 40.08

-----URBAN-----

INTERSTATE (11) 687499. 14823. 46.38
OTH.FWY & XWAY (12) 914757. 26588. 34.40
OTH. PRINC. ART.(14) 961449. 29214. 32.91
MINOR ARTERIAL (16) 1141437. 31887. 35.80
CENCON & INTRAS (19) 525137. 34427. 15.25
SUBTOTAL 4230278. 136939. 30.89
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 808. 19902. 2327. 31. 57.
OTH. PRINC. ART.(2) 966. 21166. 2156. 36. 65.
MINOR ARTERIAL (6) 185. 4155. 427. 7. 13.
CENCON & INTRAS (9) 412. 5584. 561. 10. 18.
SUBTOTAL 2372. 50807. 5471. 85. 152.
-----URBAN-----
INTERSTATE (11) 536. 13219. 1551. 21. 38.
OTH.FWY & XWAY (12) 152. 3535. 366. 6. 10.
OTH. PRINC. ART.(14) 772. 15863. 1599. 28. 50.
MINOR ARTERIAL (16) 611. 12214. 1234. 22. 39.
CENCON & INTRAS (19) 545. 7383. 742. 14. 24.
SUBTOTAL 2615. 52214. 5493. 90. 162.
---TOTAL--- 4987. 103021. 10963. 175. 314.
(TONS) 5.49 113.46 12.07 0.19 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 619536. 10434. 59.38
OTH. PRINC. ART.(2) 709648. 14956. 47.45
MINOR ARTERIAL (6) 137417. 2788. 49.29
CENCON & INTRAS (9) 199981. 9999. 20.00
SUBTOTAL 1666583. 38177. 43.65
-----URBAN-----
INTERSTATE (11) 410738. 6891. 59.60
OTH.FWY & XWAY (12) 114325. 2127. 53.76
OTH. PRINC. ART.(14) 550842. 13387. 41.15
MINOR ARTERIAL (16) 430861. 11191. 38.50
CENCON & INTRAS (19) 264439. 17629. 15.00
SUBTOTAL 1771205. 51225. 34.58
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 796. 20066. 2401. 31. 56.
OTH. PRINC. ART.(2) 827. 17428. 1758. 30. 54.
MINOR ARTERIAL (6) 106. 2131. 214. 4. 7.
CENCON & INTRAS (9) 374. 5072. 510. 9. 17.
SUBTOTAL 2103. 44698. 4882. 75. 134.
-----URBAN-----
INTERSTATE (11) 503. 12699. 1521. 20. 35.
OTH. PRINC. ART.(14) 877. 17931. 1809. 32. 57.
MINOR ARTERIAL (16) 466. 9340. 941. 17. 30.
CENCON & INTRAS (19) 333. 4521. 454. 8. 15.
SUBTOTAL 2180. 44491. 4725. 77. 138.
---TOTAL--- 4283. 89188. 9608. 151. 272.
(TONS) 4.72 98.22 10.58 0.17 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 614160. 9941. 61.78
OTH. PRINC. ART.(2) 595091. 13744. 43.30
MINOR ARTERIAL (6) 75334. 1912. 39.39
CENCON & INTRAS (9) 181666. 9083. 20.00
SUBTOTAL 1466252. 34681. 42.28
-----URBAN-----
INTERSTATE (11) 388301. 6272. 61.91
OTH. PRINC. ART.(14) 624892. 15372. 40.65
MINOR ARTERIAL (16) 330100. 8404. 39.28
CENCON & INTRAS (19) 161902. 10782. 15.02
SUBTOTAL 1505196. 40830. 36.86
TOTAL 2971450. 75511. 39.35

Hancock County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
OTH. PRINC. ART.(2) 510. 10789. 1087. 19. 34.
MINOR ARTERIAL (6) 104. 2090. 210. 4. 7.
CENCON & INTRAS (9) 223. 3023. 304. 6. 10.
SUBTOTAL 837. 15902. 1601. 28. 50.
-----URBAN-----
INTERSTATE (11) 1329. 32263. 3755. 51. 93.
OTH. PRINC. ART.(14) 589. 12027. 1211. 21. 38.
MINOR ARTERIAL (16) 374. 7495. 755. 13. 24.
CENCON & INTRAS (19) 299. 4059. 408. 8. 13.
SUBTOTAL 2591. 55845. 6129. 94. 168.
---TOTAL--- 3428. 71747. 7730. 122. 219.
(TONS) 3.78 79.02 8.51 0.13 0.24

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
OTH. PRINC. ART.(2) 369802. 8348. 44.30
MINOR ARTERIAL (6) 73767. 1852. 39.83
CENCON & INTRAS (9) 108277. 5414. 20.00
SUBTOTAL 551847. 15614. 35.34
-----URBAN-----
INTERSTATE (11) 1013264. 17533. 57.79
OTH. PRINC. ART.(14) 417360. 10392. 40.16
MINOR ARTERIAL (16) 263963. 6772. 38.98
CENCON & INTRAS (19) 145386. 9692. 15.00
SUBTOTAL 1839973. 44390. 41.45
TOTAL 2391821. 60003. 39.86

Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 992. 24897. 2965. 39. 70.
OTH. PRINC. ART.(2) 510. 10813. 1087. 19. 34.
MINOR ARTERIAL (6) 14. 286. 29. 1. 1.
CENCON & INTRAS (9) 280. 3793. 381. 7. 12.
SUBTOTAL 1796. 39788. 4462. 65. 117.
-----URBAN-----
INTERSTATE (11) 492. 12421. 1488. 19. 35.
OTH. PRINC. ART.(14) 130. 2557. 259. 5. 8.
MINOR ARTERIAL (16) 41. 823. 83. 1. 3.
CENCON & INTRAS (19) 132. 1809. 182. 3. 6.
SUBTOTAL 795. 17611. 2012. 29. 51.
---TOTAL--- 2591. 57399. 6475. 94. 168.
(TONS) 2.85 63.21 7.13 0.10 0.19

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 764402. 12462. 61.34
OTH. PRINC. ART.(2) 370249. 8282. 44.70
MINOR ARTERIAL (6) 9861. 235. 41.93
CENCON & INTRAS (9) 135863. 6793. 20.00
SUBTOTAL 1280376. 27772. 46.10
-----URBAN-----
INTERSTATE (11) 379793. 6133. 61.92
OTH. PRINC. ART.(14) 89430. 2536. 35.27
MINOR ARTERIAL (16) 29014. 726. 39.96
CENCON & INTRAS (19) 64733. 4236. 15.28
SUBTOTAL 562970. 13631. 41.30
TOTAL 1843346. 41404. 44.52

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 1622. 39331. 4569. 63. 113.
OTH. PRINC. ART.(2) 744. 15924. 1603. 28. 50.
MINOR ARTERIAL (6) 69. 1402. 141. 3. 5.
CENCON & INTRAS (9) 360. 4877. 490. 9. 16.
      SUBTOTAL 2795. 61535. 6802. 102. 183.
-----URBAN-----
OTH. PRINC. ART.(14) 189. 3864. 389. 7. 12.
MINOR ARTERIAL (16) 75. 1414. 144. 3. 5.
CENCON & INTRAS (19) 100. 1354. 136. 3. 4.
      SUBTOTAL 363. 6633. 668. 12. 21.
---TOTAL---      3159. 68168. 7471. 114. 204.
(TONS)           3.48 75.07 8.23 0.13 0.23

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1236513. 21441. 57.67
OTH. PRINC. ART.(2) 542162. 11877. 45.65
MINOR ARTERIAL (6) 49406. 1229. 40.21
CENCON & INTRAS (9) 174665. 8733. 20.00
      SUBTOTAL 2002745. 43281. 46.27
-----URBAN-----
OTH. PRINC. ART.(14) 134994. 3256. 41.46
MINOR ARTERIAL (16) 50332. 1556. 32.35
CENCON & INTRAS (19) 48502. 3233. 15.00
      SUBTOTAL 333764. 9471. 35.24
TOTAL          2336510. 52751. 44.29

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Morgan County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE   (1) 416. 10498. 1258. 16. 29.
OTH. PRINC. ART.(2) 1700. 36957. 3774. 63. 114.
MINOR ARTERIAL (6) 118. 2383. 240. 4. 8.
CENCON & INTRAS (9) 481. 6523. 656. 12. 21.
      SUBTOTAL 2716. 56361. 5927. 96. 172.
-----URBAN-----
OTH. PRINC. ART.(14) 362. 7735. 800. 13. 24.
MINOR ARTERIAL (16) 42. 857. 86. 2. 3.
CENCON & INTRAS (19) 74. 1008. 101. 2. 3.
      SUBTOTAL 479. 9601. 987. 17. 30.
---TOTAL---      3195. 65961. 6914. 112. 202.
(TONS)           3.52 72.64 7.61 0.12 0.22

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DAILY TRAVEL STATS

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Morgan County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE   (1) 320953.    5182. 61.94
OTH. PRINC. ART.(2) 1241825.    26945. 46.09
MINOR ARTERIAL (6) 84092.    2107. 39.91
CENCON & INTRAS (9) 233621.    11681. 20.00
      SUBTOTAL    1880492.    45915. 40.96
-----URBAN-----
OTH. PRINC. ART.(14) 258054.    5885. 43.85
MINOR ARTERIAL (16) 30152.    746. 40.40
CENCON & INTRAS (19) 36109.    2407. 15.00
      SUBTOTAL    324315.    9039. 35.88
TOTAL          2204807.    54954. 40.12

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 Madison County
 VOC EXHST EXHST TOTAL
 HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
 INTERSTATE (1) 1008. 24558. 2856. 39. 70.
 OTH. PRINC. ART.(2) 1195. 25458. 2563. 44. 79.
 MINOR ARTERIAL (6) 8. 156. 16. 0. 1.
 CENCON & INTRAS (9) 589. 8134. 818. 15. 27.
 SUBTOTAL 2799. 58307. 6252. 99. 177.
 -----URBAN-----
 INTERSTATE (11) 249. 6205. 730. 10. 18.
 OTH. PRINC. ART.(14) 1226. 24998. 2517. 44. 80.
 CENCON & INTRAS (19) 492. 6665. 670. 12. 22.
 SUBTOTAL 1967. 37867. 3917. 67. 119.
 ---TOTAL--- 4766. 96174. 10169. 165. 296.
 (TONS) 5.25 105.92 11.20 0.18 0.33

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 HPMS TYPE VMT VHT SPEED

-----RURAL-----
 INTERSTATE (1) 769973. 13222. 58.23
 OTH. PRINC. ART.(2) 868383. 19214. 45.20
 MINOR ARTERIAL (6) 5505. 136. 40.36
 CENCON & INTRAS (9) 290330. 14118. 20.56
 SUBTOTAL 1934190. 46690. 41.43
 -----URBAN-----
 INTERSTATE (11) 191742. 3170. 60.49
 OTH. PRINC. ART.(14) 874064. 21398. 40.85
 CENCON & INTRAS (19) 238699. 15913. 15.00
 SUBTOTAL 1304506. 40481. 32.23
 TOTAL 3238696. 87171. 37.15

Total Model Area
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 6472. 159511. 18729. 252. 453.
OTH. PRINC. ART.(2) 7621. 162647. 16442. 280. 503.
MINOR ARTERIAL (6) 1170. 23317. 2349. 41. 73.
CENCON & INTRAS (9) 3162. 43008. 4323. 80. 141.
SUBTOTAL 18424. 388483. 41843. 652. 1170.

-----URBAN-----

INTERSTATE (11) 17892. 411162. 46591. 675. 1214.
OTH.FWY & XWAY (12) 2356. 46731. 4750. 83. 149.
OTH. PRINC. ART.(14) 14913. 290162. 29310. 517. 927.
MINOR ARTERIAL (16) 12691. 245029. 24831. 444. 797.
CENCON & INTRAS (19) 7131. 96684. 9717. 180. 316.
SUBTOTAL 54983. 1089768. 115199. 1899. 3403.

---TOTAL--- 73407. 1478250. 157042. 2551. 4573.
(TONS) 80.84 1628.03 172.95 2.81 5.04

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 4959314. 83614. 59.31
OTH. PRINC. ART.(2) 5503484. 124694. 44.14
MINOR ARTERIAL (6) 799252. 22470. 35.57
CENCON & INTRAS (9) 1539349. 76569. 20.10
SUBTOTAL 12801399. 307347. 41.65

-----URBAN-----

INTERSTATE (11) 13383566. 268552. 49.84
OTH.FWY & XWAY (12) 1630150. 44922. 36.29
OTH. PRINC. ART.(14) 10145422. 294895. 34.40
MINOR ARTERIAL (16) 8718119. 251294. 34.69
CENCON & INTRAS (19) 3462749. 230131. 15.05
SUBTOTAL 37340080. 1089792. 34.26

TOTAL 50141528. 1397140. 35.89

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 07:26:03 29NOV06
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:02A
MOBILE6 INPUT FILE :

Marion County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1885. 37513. 3925. 65. 117.
CDB FRINGE (2) 17786. 352560. 37081. 622. 1115.
RESIDENTIAL (3) 17827. 353817. 37729. 610. 1092.
RURAL (5) 751. 15334. 1674. 24. 43.
---TOTAL--- 38249. 759224. 80408. 1321. 2367.
(TONS) 42.12 836.15 88.56 1.45 2.61

Marion County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 13778. 312813. 35536. 520. 935.
EXPRESSWAY (2) 844. 16833. 1709. 30. 54.
2-WAY ART w/prk (3) 9695. 185456. 18804. 336. 602.
ONE-WAY ARTERIAL (4) 1031. 19841. 2012. 36. 65.
CENTROID CONNECT (5) 4091. 55455. 5573. 103. 182.
2-WAY ART wo/prk (6) 8419. 159665. 16103. 284. 509.
FREEWAY RAMPS (7) 391. 9160. 671. 12. 21.
---TOTAL--- 38249. 759224. 80408. 1321. 2367.
(TONS) 42.12 836.15 88.56 1.45 2.61
DAILY TRAVEL STATS

Marion County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1278570. 37173. 34.39
CDB FRINGE (2) 12202720. 346284. 35.24
RESIDENTIAL (3) 11955264. 359778. 33.23
RURAL (5) 468815. 16312. 28.74
TOTAL 25905352. 759546. 34.11

Marion County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 10233330. 205392. 49.82
EXPRESSWAY (2) 586970. 15862. 37.00
2-WAY ART w/prk (3) 6592286. 196863. 33.49
ONE-WAY ARTERIAL (4) 707732. 20303. 34.86
CENTROID CONNECT (5) 1986123. 132240. 15.02
2-WAY ART wo/prk (6) 5571902. 177794. 31.34
FREEWAY RAMPS (7) 227011. 11094. 20.46
TOTAL 25905352. 759546. 34.11

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 481. 10246. 1124. 17. 31.
RESIDENTIAL (3) 5399. 100079. 10257. 180. 322.
SUBURBAN CBD (4) 502. 9315. 943. 17. 30.
RURAL (5) 2367. 47728. 4980. 82. 148.
---TOTAL--- 8750. 167369. 17304. 297. 531.
(TONS) 9.64 184.33 19.06 0.33 0.59

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1445. 32639. 3692. 55. 98.
EXPRESSWAY (2) 1809. 36140. 3662. 64. 115.
2-WAY ART w/prk (3) 1947. 38061. 3848. 69. 124.
ONE-WAY ARTERIAL (4) 2. 31. 3. 0. 0.
CENTROID CONNECT (5) 1575. 21354. 2146. 40. 70.
2-WAY ART wo/prk (6) 1972. 39145. 3953. 69. 124.
---TOTAL--- 8750. 167369. 17304. 297. 531.
(TONS) 9.64 184.33 19.06 0.33 0.59

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 343086. 8216. 41.76
RESIDENTIAL (3) 3524398. 116204. 30.33
SUBURBAN CBD (4) 328871. 10823. 30.39
RURAL (5) 1615266. 41154. 39.25
TOTAL 5811620. 176396. 32.95

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1073220. 21575. 49.74
EXPRESSWAY (2) 1258190. 33883. 37.13
2-WAY ART w/prk (3) 1352323. 37168. 36.38
ONE-WAY ARTERIAL (4) 1114. 31. 36.00
CENTROID CONNECT (5) 764783. 46410. 16.48
2-WAY ART wo/prk (6) 1361990. 37329. 36.49
TOTAL 5811620. 176396. 32.95

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 193. 3653. 368. 7. 12.
RESIDENTIAL (3) 2157. 43652. 4630. 75. 134.
SUBURBAN CBD (4) 265. 4909. 494. 9. 16.
RURAL (5) 2372. 50807. 5471. 85. 152.
---TOTAL--- 4987. 103021. 10963. 175. 314.
(TONS) 5.49 113.46 12.07 0.19 0.35

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1344. 33121. 3878. 52. 94.
EXPRESSWAY (2) 244. 5785. 607. 9. 17.
2-WAY ART w/prk (3) 797. 16368. 1661. 29. 52.
CENTROID CONNECT (5) 957. 12967. 1303. 24. 42.
2-WAY ART wo/prk (6) 1646. 34780. 3514. 60. 109.
---TOTAL--- 4987. 103021. 10963. 175. 314.
(TONS) 5.49 113.46 12.07 0.19 0.35

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 129445. 3973. 32.58
RESIDENTIAL (3) 1469394. 41519. 35.39
SUBURBAN CBD (4) 172366. 5733. 30.06
RURAL (5) 1666583. 38177. 43.65
TOTAL 3437786. 89402. 38.45

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1030274. 17325. 59.47
EXPRESSWAY (2) 184802. 3332. 55.46
2-WAY ART w/prk (3) 568278. 13979. 40.65
CENTROID CONNECT (5) 464420. 27628. 16.81
2-WAY ART wo/prk (6) 1190014. 27138. 43.85
TOTAL 3437786. 89402. 38.45

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 2173. 44341. 4710. 76. 137.
RURAL (5) 2111. 44847. 4897. 75. 134.
---TOTAL--- 4283. 89188. 9608. 151. 272.
(TONS) 4.72 98.22 10.58 0.17 0.30

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1299. 32765. 3922. 51. 92.
2-WAY ART w/prk (3) 548. 10966. 1105. 20. 35.
CENTROID CONNECT (5) 707. 9586. 963. 18. 31.
2-WAY ART wo/prk (6) 1729. 35871. 3618. 63. 113.
---TOTAL--- 4283. 89188. 9608. 151. 272.
(TONS) 4.72 98.22 10.58 0.17 0.30

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1500019. 40709. 36.85
RURAL (5) 1471429. 34801. 42.28
TOTAL 2971450. 75511. 39.35

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1002461. 16213. 61.83
2-WAY ART w/prk (3) 387983. 9910. 39.15
CENTROID CONNECT (5) 343308. 19859. 17.29
2-WAY ART wo/prk (6) 1237696. 29529. 41.91
TOTAL 2971450. 75511. 39.35

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Hancock County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 2540. 54888. 6033.  92. 165.
SUBURBAN CBD (4)  50.  957.  96.   2.   3.
RURAL (5) 837. 15902. 1601.  28.  50.
---TOTAL---    3428. 71747. 7730. 122. 219.
(TONS)         3.78 79.02  8.51  0.13  0.24
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Hancock County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 1329. 32263. 3755.  51.  93.
2-WAY ART w/prk (3) 478. 9585. 965.  17.  31.
CENTROID CONNECT (5) 523. 7083. 712.  13.  23.
2-WAY ART wo/prk (6) 1099. 22816. 2298.  40.  72.
---TOTAL---    3428. 71747. 7730. 122. 219.
(TONS)         3.78 79.02  8.51  0.13  0.24
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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 1806708.  43348. 41.68
SUBURBAN CBD (4)  33265.  1042. 31.94
RURAL (5) 551847.  15614. 35.34
TOTAL      2391821.  60003. 39.86
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Hancock County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1013264.  17533. 57.79
2-WAY ART w/prk (3) 337730.  8624. 39.16
CENTROID CONNECT (5) 253663.  15106. 16.79
2-WAY ART wo/prk (6) 787162.  18740. 42.00
TOTAL      2391821.  60003. 39.86
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Shelby County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 782. 17355. 1986. 28. 51.
SUBURBAN CBD (4) 13. 256. 26. 0. 1.
RURAL (5) 1796. 39788. 4462. 65. 117.
---TOTAL--- 2591. 57399. 6475. 94. 168.
(TONS) 2.85 63.21 7.13 0.10 0.19
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Shelby County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 1484. 37318. 4453. 58. 105.
2-WAY ART w/prk (3) 60. 1221. 124. 2. 4.
CENTROID CONNECT (5) 409. 5549. 558. 10. 18.
2-WAY ART wo/prk (6) 638. 13311. 1340. 23. 42.
---TOTAL--- 2591. 57399. 6475. 94. 168.
(TONS) 2.85 63.21 7.13 0.10 0.19
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DAILY TRAVEL STATS

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Shelby County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 554054. 13375. 41.42
SUBURBAN CBD (4) 8916. 256. 34.77
RURAL (5) 1280376. 27772. 46.10
TOTAL 1843346. 41404. 44.52
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Shelby County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1144194. 18595. 61.53
2-WAY ART w/prk (3) 42617. 1039. 41.00
CENTROID CONNECT (5) 198727. 10984. 18.09
2-WAY ART wo/prk (6) 457807. 10785. 42.45
TOTAL 1843346. 41404. 44.52
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Boone County						
	VOC	EXHST	EXHST	TOTAL		
AREA TYPE	HC	CO	NOx	PM2.5	NH3	

RESIDENTIAL	(3)	354.	6447.	650.	12.	21.
SUBURBAN CBD	(4)	10.	186.	19.	0.	1.
RURAL	(5)	2795.	61535.	6802.	102.	183.
---TOTAL---		3159.	68168.	7471.	114.	204.
(TONS)		3.48	75.07	8.23	0.13	0.23

Boone County						
	VOC	EXHST	EXHST	TOTAL		
FACILITY	HC	CO	NOx	PM2.5	NH3	

FREEWAY	(1)	1622.	39331.	4569.	63.	113.
2-WAY ART w/prk	(3)	144.	2817.	285.	5.	9.
CENTROID CONNECT	(5)	460.	6231.	626.	12.	20.
2-WAY ART wo/prk	(6)	933.	19789.	1991.	34.	62.
---TOTAL---		3159.	68168.	7471.	114.	204.
(TONS)		3.48	75.07	8.23	0.13	0.23

DAILY TRAVEL STATS

Boone County				
	DAILY	DAILY AVERAGE		
AREA TYPE	VMT	VHT	SPEED	

RESIDENTIAL	(3)	327258.	9268.	35.31
SUBURBAN CBD	(4)	6507.	203.	32.13
RURAL	(5)	2002745.	43281.	46.27
TOTAL		2336510.	52751.	44.29

Boone County				
	DAILY	DAILY AVERAGE		
FACILITY TYPE	VMT	VHT	SPEED	

FREEWAY	(1)	1336450.	22867.	58.45
2-WAY ART w/prk	(3)	99738.	2785.	35.82
CENTROID CONNECT	(5)	223166.	11967.	18.65
2-WAY ART wo/prk	(6)	677156.	15133.	44.75
TOTAL		2336510.	52751.	44.29

Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 442. 9082. 935. 16. 28.
SUBURBAN CBD (4) 2. 44. 4. 0. 0.
RURAL (5) 2751. 56835. 5975. 97. 173.
---TOTAL--- 3195. 65961. 6914. 112. 202.
(TONS) 3.52 72.64 7.61 0.12 0.22

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 416. 10498. 1258. 16. 29.
EXPRESSWAY (2) 164. 4026. 435. 6. 11.
2-WAY ART w/prk (3) 161. 3240. 326. 6. 10.
CENTROID CONNECT (5) 591. 8006. 805. 15. 26.
2-WAY ART wo/prk (6) 1864. 40191. 4091. 69. 124.
---TOTAL--- 3195. 65961. 6914. 112. 202.
(TONS) 3.52 72.64 7.61 0.12 0.22

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 305811. 8149. 37.53
SUBURBAN CBD (4) 1508. 41. 37.11
RURAL (5) 1897488. 46765. 40.57
TOTAL 2204807. 54954. 40.12

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 320953. 5182. 61.94
EXPRESSWAY (2) 125369. 2112. 59.36
2-WAY ART w/prk (3) 114244. 2854. 40.03
CENTROID CONNECT (5) 286727. 14938. 19.19
2-WAY ART wo/prk (6) 1357514. 29869. 45.45
TOTAL 2204807. 54954. 40.12

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1861. 35781. 3706. 63. 113.
 SUBURBAN CBD (4) 106. 2087. 210. 4. 7.
 RURAL (5) 2799. 58307. 6252. 99. 177.
 ---TOTAL--- 4766. 96174. 10169. 165. 296.
 (TONS) 5.25 105.92 11.20 0.18 0.33

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 1257. 30762. 3586. 49. 88.
 2-WAY ART w/prk (3) 8. 156. 16. 0. 1.
 CENTROID CONNECT (5) 1062. 14395. 1447. 27. 47.
 2-WAY ART wo/prk (6) 2439. 50860. 5120. 89. 160.
 ---TOTAL--- 4766. 96174. 10169. 165. 296.
 (TONS) 5.25 105.92 11.20 0.18 0.33

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1231188. 38483. 31.99
 SUBURBAN CBD (4) 73318. 1998. 36.70
 RURAL (5) 1934190. 46690. 41.43
 TOTAL 3238696. 87171. 37.15

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 961715. 16392. 58.67
 2-WAY ART w/prk (3) 5505. 136. 40.36
 CENTROID CONNECT (5) 515575. 29757. 17.33
 2-WAY ART wo/prk (6) 1755901. 40886. 42.95
 TOTAL 3238696. 87171. 37.15

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1885. 37513. 3925. 65. 117.
CDB FRINGE (2) 18460. 366459. 38573. 646. 1158.
RESIDENTIAL (3) 33535. 665442. 70637. 1152. 2063.
SUBURBAN CBD (4) 949. 17753. 1792. 32. 57.
RURAL (5) 18579. 391085. 42114. 657. 1178.
---TOTAL--- 73407.1478250. 157042. 2551. 4573.
(TONS) 80.84 1628.03 172.95 2.81 5.04

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 23973. 561513. 64649. 915. 1646.
EXPRESSWAY (2) 3061. 62784. 6413. 110. 197.
2-WAY ART w/prk (3) 13837. 267872. 27133. 484. 868.
ONE-WAY ARTERIAL (4) 1032. 19872. 2015. 36. 65.
CENTROID CONNECT (5) 10375. 140624. 14132. 262. 460.
2-WAY ART wo/prk (6) 20738. 416427. 42028. 733. 1316.
FREEWAY RAMPS (7) 391. 9160. 671. 12. 21.
---TOTAL--- 73407.1478250. 157042. 2551. 4573.
(TONS) 80.84 1628.03 172.95 2.81 5.04

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1278570. 37173. 34.39
CDB FRINGE (2) 12675249. 358473. 35.36
RESIDENTIAL (3) 22674086. 670834. 33.80
SUBURBAN CBD (4) 624751. 20096. 31.09
RURAL (5) 12888741. 310566. 41.50
TOTAL 50141528. 1397140. 35.89

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18115864. 341073. 53.11
EXPRESSWAY (2) 2155330. 55189. 39.05
2-WAY ART w/prk (3) 9500708. 273358. 34.76
ONE-WAY ARTERIAL (4) 708847. 20334. 34.86
CENTROID CONNECT (5) 5036498. 308889. 16.31
2-WAY ART wo/prk (6) 14397146. 387204. 37.18
FREEWAY RAMPS (7) 227011. 11094. 20.46
TOTAL 50141528. 1397140. 35.89

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2002 Autumn RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 33.4 52.1

ABSOLUTE HUMIDITY : 29.9

CLOUD COVER : 0.47

SUNRISE/SUNSET : 7 6

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 12.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2003

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~ 5.0 NON-RAMP

AVERAGE SPEED : 5.0 NON-RAMP

CALENDAR YEAR : 2003

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~10.0 NON-RAMP

AVERAGE SPEED : 10.0 NON-RAMP

CALENDAR YEAR : 2003

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~15.0 NON-RAMP

AVERAGE SPEED : 15.0 NON-RAMP

CALENDAR YEAR : 2003

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~20.0 NON-RAMP

AVERAGE SPEED : 20.0 NON-RAMP

CALENDAR YEAR : 2003

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~25.0 NON-RAMP
AVERAGE SPEED : 25.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~30.0 NON-RAMP
AVERAGE SPEED : 30.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~35.0 NON-RAMP
AVERAGE SPEED : 35.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~40.0 NON-RAMP
AVERAGE SPEED : 40.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~45.0 NON-RAMP
AVERAGE SPEED : 45.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~50.0 NON-RAMP
AVERAGE SPEED : 50.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~55.0 NON-RAMP
AVERAGE SPEED : 55.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~60.0 NON-RAMP
AVERAGE SPEED : 60.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~65.0 NON-RAMP
AVERAGE SPEED : 65.0 NON-RAMP
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~ 3.0 ARTERIAL
AVERAGE SPEED : 3.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~ 5.0 ARTERIAL
AVERAGE SPEED : 5.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~10.0 ARTERIAL
AVERAGE SPEED : 10.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~15.0 ARTERIAL
AVERAGE SPEED : 15.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~20.0 ARTERIAL
AVERAGE SPEED : 20.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~25.0 ARTERIAL
AVERAGE SPEED : 25.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~30.0 ARTERIAL
AVERAGE SPEED : 30.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~35.0 ARTERIAL
AVERAGE SPEED : 35.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~40.0 ARTERIAL
AVERAGE SPEED : 40.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~45.0 ARTERIAL
AVERAGE SPEED : 45.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~50.0 ARTERIAL
AVERAGE SPEED : 50.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~55.0 ARTERIAL
AVERAGE SPEED : 55.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~60.0 ARTERIAL
AVERAGE SPEED : 60.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~65.0 ARTERIAL
AVERAGE SPEED : 65.0 ARTERIAL
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\fvmt.def
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\rmpvmt.def
CALENDAR YEAR : 2003
EVALUATION MONTH : 1
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 : 318.00

END OF RUN

MOBILE6 INPUT FILE :
PARTICULATES
>Indy MPO 2002 Summer
RUN DATA
NO REFUELING :
EXPRESS HC AS VOC :
MIN/MAX TEMP : 60.5 82.2
ABSOLUTE HUMIDITY : 56.2
CLOUD COVER : 0.66
SUNRISE/SUNSET : 6 8
REG DIST : c:\I98\m6\IN_grpPM.d
FUEL RVP : 9.0

SCENARIO RECORD : ~ 3.0 NON-RAMP
AVERAGE SPEED : 3.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~ 5.0 NON-RAMP
AVERAGE SPEED : 5.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~10.0 NON-RAMP
AVERAGE SPEED : 10.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~15.0 NON-RAMP
AVERAGE SPEED : 15.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~20.0 NON-RAMP
AVERAGE SPEED : 20.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~25.0 NON-RAMP
AVERAGE SPEED : 25.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~30.0 NON-RAMP
AVERAGE SPEED : 30.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~35.0 NON-RAMP
AVERAGE SPEED : 35.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~40.0 NON-RAMP
AVERAGE SPEED : 40.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~45.0 NON-RAMP
AVERAGE SPEED : 45.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~50.0 NON-RAMP
AVERAGE SPEED : 50.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~55.0 NON-RAMP
AVERAGE SPEED : 55.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~60.0 NON-RAMP
AVERAGE SPEED : 60.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~65.0 NON-RAMP
AVERAGE SPEED : 65.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~ 3.0 ARTERIAL
AVERAGE SPEED : 3.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~ 5.0 ARTERIAL
AVERAGE SPEED : 5.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~10.0 ARTERIAL
AVERAGE SPEED : 10.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~15.0 ARTERIAL
AVERAGE SPEED : 15.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~20.0 ARTERIAL
AVERAGE SPEED : 20.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~25.0 ARTERIAL
AVERAGE SPEED : 25.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~30.0 ARTERIAL
AVERAGE SPEED : 30.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~35.0 ARTERIAL
AVERAGE SPEED : 35.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~40.0 ARTERIAL
AVERAGE SPEED : 40.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~45.0 ARTERIAL
AVERAGE SPEED : 45.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~50.0 ARTERIAL
AVERAGE SPEED : 50.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~55.0 ARTERIAL
AVERAGE SPEED : 55.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~60.0 ARTERIAL
AVERAGE SPEED : 60.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~65.0 ARTERIAL
AVERAGE SPEED : 65.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\fvmt.def
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\rmpvmt.def
CALENDAR YEAR : 2002
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 : 318.00

END OF RUN

MOBILE6 INPUT FILE :
PARTICULATES
>Indy MPO 2002 Spring
RUN DATA
NO REFUELING :
EXPRESS HC AS VOC :
MIN/MAX TEMP : 50.9 72.7
ABSOLUTE HUMIDITY : 58.2
CLOUD COVER : 0.60
SUNRISE/SUNSET : 6 7
REG DIST : c:\I98\m6\IN_grpPM.d
FUEL RVP : 10.0

SCENARIO RECORD : ~ 3.0 NON-RAMP
AVERAGE SPEED : 3.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~ 5.0 NON-RAMP
AVERAGE SPEED : 5.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~10.0 NON-RAMP
AVERAGE SPEED : 10.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~15.0 NON-RAMP
AVERAGE SPEED : 15.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~20.0 NON-RAMP
AVERAGE SPEED : 20.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~25.0 NON-RAMP
AVERAGE SPEED : 25.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~30.0 NON-RAMP
AVERAGE SPEED : 30.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~35.0 NON-RAMP
AVERAGE SPEED : 35.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~40.0 NON-RAMP
AVERAGE SPEED : 40.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~45.0 NON-RAMP
AVERAGE SPEED : 45.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~50.0 NON-RAMP
AVERAGE SPEED : 50.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~55.0 NON-RAMP
AVERAGE SPEED : 55.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~60.0 NON-RAMP
AVERAGE SPEED : 60.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~65.0 NON-RAMP
AVERAGE SPEED : 65.0 NON-RAMP
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~ 3.0 ARTERIAL
AVERAGE SPEED : 3.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~ 5.0 ARTERIAL
AVERAGE SPEED : 5.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~10.0 ARTERIAL
AVERAGE SPEED : 10.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~15.0 ARTERIAL
AVERAGE SPEED : 15.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~20.0 ARTERIAL
AVERAGE SPEED : 20.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~25.0 ARTERIAL
AVERAGE SPEED : 25.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~30.0 ARTERIAL
AVERAGE SPEED : 30.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~35.0 ARTERIAL
AVERAGE SPEED : 35.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~40.0 ARTERIAL
AVERAGE SPEED : 40.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~45.0 ARTERIAL
AVERAGE SPEED : 45.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~50.0 ARTERIAL
AVERAGE SPEED : 50.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~55.0 ARTERIAL
AVERAGE SPEED : 55.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~60.0 ARTERIAL
AVERAGE SPEED : 60.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~65.0 ARTERIAL
AVERAGE SPEED : 65.0 ARTERIAL
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\fvmt.def
CALENDAR YEAR : 2002
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\rmpvmt.def
CALENDAR YEAR : 2002
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 : 318.00

END OF RUN

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2002 Winter RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 23.7 41.7

ABSOLUTE HUMIDITY : 22.0

CLOUD COVER : 0.46

SUNRISE/SUNSET : 8 6

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 12.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2002

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~ 5.0 NON-RAMP

AVERAGE SPEED : 5.0 NON-RAMP

CALENDAR YEAR : 2002

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~10.0 NON-RAMP

AVERAGE SPEED : 10.0 NON-RAMP

CALENDAR YEAR : 2002

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~15.0 NON-RAMP

AVERAGE SPEED : 15.0 NON-RAMP

CALENDAR YEAR : 2002

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~20.0 NON-RAMP

AVERAGE SPEED : 20.0 NON-RAMP

CALENDAR YEAR : 2002

EVALUATION MONTH : 1

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 : 318.00

SCENARIO RECORD : ~25.0 NON-RAMP
AVERAGE SPEED : 25.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~30.0 NON-RAMP
AVERAGE SPEED : 30.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~35.0 NON-RAMP
AVERAGE SPEED : 35.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~40.0 NON-RAMP
AVERAGE SPEED : 40.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~45.0 NON-RAMP
AVERAGE SPEED : 45.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~50.0 NON-RAMP
AVERAGE SPEED : 50.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~55.0 NON-RAMP
AVERAGE SPEED : 55.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~60.0 NON-RAMP
AVERAGE SPEED : 60.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~65.0 NON-RAMP
AVERAGE SPEED : 65.0 NON-RAMP
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~ 3.0 ARTERIAL
AVERAGE SPEED : 3.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~ 5.0 ARTERIAL
AVERAGE SPEED : 5.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~10.0 ARTERIAL
AVERAGE SPEED : 10.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~15.0 ARTERIAL
AVERAGE SPEED : 15.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~20.0 ARTERIAL
AVERAGE SPEED : 20.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~25.0 ARTERIAL
AVERAGE SPEED : 25.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~30.0 ARTERIAL
AVERAGE SPEED : 30.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~35.0 ARTERIAL
AVERAGE SPEED : 35.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~40.0 ARTERIAL
AVERAGE SPEED : 40.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~45.0 ARTERIAL
AVERAGE SPEED : 45.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~50.0 ARTERIAL
AVERAGE SPEED : 50.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~55.0 ARTERIAL
AVERAGE SPEED : 55.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~60.0 ARTERIAL
AVERAGE SPEED : 60.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~65.0 ARTERIAL
AVERAGE SPEED : 65.0 ARTERIAL
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\fvmt.def
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

SCENARIO RECORD : ~VMT BY FACILITY
VMT BY FACILITY : c:\I98\m6\rmpvmt.def
CALENDAR YEAR : 2002
EVALUATION MONTH : 1
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 : 318.00

END OF RUN

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:58:12 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NO _x	PM	NH ₃
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	3.6400	35.3330	2.1150	0.0239	0.0929
Freeway	5	1.9360	25.9130	1.9600	0.0239	0.0929
Freeway	10	1.1070	17.9410	1.5320	0.0239	0.0929
Freeway	15	0.8610	15.4430	1.3050	0.0239	0.0929
Freeway	20	0.7610	14.8260	1.2610	0.0239	0.0929
Freeway	25	0.7090	14.4500	1.2350	0.0238	0.0929
Freeway	30	0.6730	14.2030	1.2240	0.0238	0.0929
Freeway	35	0.6410	14.2280	1.2240	0.0238	0.0929
Freeway	40	0.6220	14.6880	1.2470	0.0238	0.0929
Freeway	45	0.6070	15.1700	1.2880	0.0238	0.0929
Freeway	50	0.5930	15.6710	1.3480	0.0238	0.0929
Freeway	55	0.5790	16.1930	1.4340	0.0238	0.0929
Freeway	60	0.5700	16.7710	1.5530	0.0238	0.0929
Freeway	65	0.5630	17.3830	1.7190	0.0238	0.0929
Arterial	3	3.6400	35.3330	2.0660	0.0239	0.0929
Arterial	5	1.9360	25.9130	1.9100	0.0239	0.0929
Arterial	10	1.1560	18.7890	1.6000	0.0239	0.0929
Arterial	15	0.9190	16.4340	1.4020	0.0239	0.0929
Arterial	20	0.7880	15.2170	1.2900	0.0239	0.0929
Arterial	25	0.7170	14.5430	1.2220	0.0238	0.0929
Arterial	30	0.6740	14.2200	1.1840	0.0238	0.0929
Arterial	35	0.6410	14.2280	1.1740	0.0238	0.0929
Arterial	40	0.6220	14.6880	1.1970	0.0238	0.0929
Arterial	45	0.6070	15.1700	1.2380	0.0238	0.0929
Arterial	50	0.5930	15.6710	1.2990	0.0238	0.0929
Arterial	55	0.5790	16.1930	1.3840	0.0238	0.0929
Arterial	60	0.5700	16.7710	1.5030	0.0238	0.0929
Arterial	65	0.5630	17.3830	1.6690	0.0238	0.0929
Local	1	0.9550	15.0290	1.2650	0.0239	0.0929
Ramps	1	0.7010	17.9110	1.2640	0.0238	0.0929

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:58:12 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:10A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	110.	3273.	308.	5.	18.
OTH. PRINC. ART.(2)	2.	48.	4.	0.	0.
MINOR ARTERIAL (6)	234.	4618.	378.	7.	27.
CENCON & INTRAS (9)	21.	333.	28.	1.	2.
SUBTOTAL	367.	8272.	718.	12.	48.

-----URBAN-----

INTERSTATE (11)	6558.	169892.	14832.	257.	1005.
OTH.FWY & XWAY (12)	444.	9807.	812.	16.	62.
OTH. PRINC. ART.(14)	5381.	117154.	9682.	191.	744.
MINOR ARTERIAL (16)	5859.	125536.	10388.	204.	797.
CENCON & INTRAS (19)	2325.	36594.	3080.	58.	226.
SUBTOTAL	20567.	458982.	38794.	726.	2834.

---TOTAL---	20934.	467254.	39512.	739.	2881.
(TONS)	23.06	514.60	43.52	0.81	3.17

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	193018.	3301.	58.48
OTH. PRINC. ART.(2)	32585.	14992.	2.17
MINOR ARTERIAL (6)	293384.	14317.	20.49
CENCON & INTRAS (9)	22137.	1107.	20.00
SUBTOTAL	541124.	33717.	16.05

-----URBAN-----

INTERSTATE (11)	10853381.	246010.	44.12
OTH.FWY & XWAY (12)	664269.	21213.	31.31
OTH. PRINC. ART.(14)	8113337.	328572.	24.69
MINOR ARTERIAL (16)	8586289.	294637.	29.14
CENCON & INTRAS (19)	2434930.	162341.	15.00
SUBTOTAL	30652236.	1052771.	29.12
TOTAL	31193356.	1086488.	28.71

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Hamilton County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 264. 7110. 619. 11. 42.
OTH. PRINC. ART.(2) 606. 14938. 1220. 24. 92.
MINOR ARTERIAL (6) 359. 8095. 665. 13. 52.
CENCON & INTRAS (9) 428. 6731. 567. 11. 42.
      SUBTOTAL 1657. 36874. 3072. 58. 227.
-----URBAN-----
INTERSTATE (11) 440. 10546. 911. 17. 66.
OTH.FWY & XWAY (12) 722. 15543. 1291. 25. 98.
OTH. PRINC. ART.(14) 891. 20395. 1696. 33. 128.
MINOR ARTERIAL (16) 1234. 26449. 2191. 43. 166.
CENCON & INTRAS (19) 679. 10690. 900. 17. 66.
      SUBTOTAL 3967. 83623. 6989. 134. 524.
---TOTAL---      5623. 120498. 10060. 193. 751.
(TONS)           6.19 132.71 11.08 0.21 0.83

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DAILY TRAVEL STATS

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Hamilton County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 448844. 8735. 51.38
OTH. PRINC. ART.(2) 991996. 22745. 43.61
MINOR ARTERIAL (6) 558921. 15767. 35.45
CENCON & INTRAS (9) 447855. 22393. 20.00
      SUBTOTAL 2447616. 69640. 35.15
-----URBAN-----
INTERSTATE (11) 705106. 17914. 39.36
OTH.FWY & XWAY (12) 1052127. 36182. 29.08
OTH. PRINC. ART.(14) 1378055. 39546. 34.85
MINOR ARTERIAL (16) 1789507. 62120. 28.81
CENCON & INTRAS (19) 711274. 46571. 15.27
      SUBTOTAL 5636067. 202334. 27.86
TOTAL          8083680. 271974. 29.72

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Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 165. 4893. 459. 7. 27.
OTH. PRINC. ART.(2) 764. 18042. 1493. 29. 112.
MINOR ARTERIAL (6) 192. 4408. 365. 7. 27.
CENCON & INTRAS (9) 328. 5161. 434. 8. 32.
SUBTOTAL 1449. 32504. 2752. 51. 198.
-----URBAN-----
INTERSTATE (11) 157. 4708. 452. 7. 26.
OTH.FWY & XWAY (12) 92. 2153. 176. 3. 14.
OTH. PRINC. ART.(14) 599. 13071. 1082. 21. 82.
MINOR ARTERIAL (16) 419. 9265. 766. 15. 59.
CENCON & INTRAS (19) 293. 4612. 388. 7. 29.
SUBTOTAL 1560. 33809. 2864. 53. 208.
---TOTAL--- 3009. 66313. 5616. 104. 406.
(TONS) 3.31 73.03 6.18 0.11 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 289686. 4750. 60.99
OTH. PRINC. ART.(2) 1200218. 32325. 37.13
MINOR ARTERIAL (6) 294570. 8653. 34.04
CENCON & INTRAS (9) 343405. 17170. 20.00
SUBTOTAL 2127878. 62898. 33.83
-----URBAN-----
INTERSTATE (11) 276187. 4463. 61.89
OTH.FWY & XWAY (12) 147033. 3723. 39.49
OTH. PRINC. ART.(14) 881844. 29288. 30.11
MINOR ARTERIAL (16) 630432. 19843. 31.77
CENCON & INTRAS (19) 306895. 20460. 15.00
SUBTOTAL 2242390. 77777. 28.83
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 484. 14394. 1351. 20. 79.
OTH. PRINC. ART.(2) 529. 12926. 1060. 20. 79.
MINOR ARTERIAL (6) 100. 2173. 180. 4. 14.
CENCON & INTRAS (9) 333. 5239. 441. 8. 32.
SUBTOTAL 1446. 34732. 3032. 53. 205.

-----URBAN-----

INTERSTATE (11) 334. 9267. 830. 14. 53.
OTH. PRINC. ART.(14) 561. 12939. 1059. 21. 81.
MINOR ARTERIAL (16) 332. 7685. 630. 13. 49.
CENCON & INTRAS (19) 201. 3170. 267. 5. 20.
SUBTOTAL 1429. 33062. 2786. 52. 203.

---TOTAL--- 2875. 67794. 5818. 104. 408.
(TONS) 3.17 74.66 6.41 0.12 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 852085. 13970. 60.99
OTH. PRINC. ART.(2) 855643. 20579. 41.58
MINOR ARTERIAL (6) 150040. 4730. 31.72
CENCON & INTRAS (9) 348564. 17428. 20.00
SUBTOTAL 2206333. 56707. 38.91

-----URBAN-----

INTERSTATE (11) 573062. 10646. 53.83
OTH. PRINC. ART.(14) 870376. 24237. 35.91
MINOR ARTERIAL (16) 526841. 13881. 37.95
CENCON & INTRAS (19) 210936. 14045. 15.02
SUBTOTAL 2181215. 62810. 34.73
TOTAL 4387548. 119517. 36.71

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 307. 7547. 618. 12. 46.
MINOR ARTERIAL ( 6) 98. 2271. 186. 4. 14.
CENCON & INTRAS ( 9) 169. 2653. 223. 4. 16.
      SUBTOTAL 574. 12471. 1027. 20. 77.
-----URBAN-----
INTERSTATE (11) 539. 15796. 1463. 22. 88.
OTH. PRINC. ART.(14) 424. 9855. 808. 16. 62.
MINOR ARTERIAL (16) 347. 7491. 621. 12. 47.
CENCON & INTRAS (19) 184. 2902. 244. 5. 18.
      SUBTOTAL 1495. 36043. 3136. 55. 215.
---TOTAL---      2069. 48514. 4164. 75. 292.
(TONS)           2.28 53.43 4.59 0.08 0.32

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 500147. 11736. 42.62
MINOR ARTERIAL ( 6) 155903. 4117. 37.87
CENCON & INTRAS ( 9) 176516. 8826. 20.00
      SUBTOTAL 832566. 24679. 33.74
-----URBAN-----
INTERSTATE (11) 944578. 15884. 59.47
OTH. PRINC. ART.(14) 666582. 17961. 37.11
MINOR ARTERIAL (16) 510259. 17125. 29.80
CENCON & INTRAS (19) 193064. 12871. 15.00
      SUBTOTAL 2314482. 63841. 36.25
TOTAL        3147050. 88520. 35.55

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Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 525. 15388. 1427. 22. 85.
OTH. PRINC. ART.(2) 322. 7964. 652. 12. 49.
MINOR ARTERIAL (6) 14. 342. 28. 1. 2.
CENCON & INTRAS (9) 148. 2330. 196. 4. 14.
SUBTOTAL 1009. 26024. 2304. 39. 151.
-----URBAN-----
INTERSTATE (11) 270. 7904. 729. 11. 44.
OTH. PRINC. ART.(14) 108. 2517. 207. 4. 16.
MINOR ARTERIAL (16) 35. 809. 66. 1. 5.
CENCON & INTRAS (19) 85. 1350. 114. 2. 8.
SUBTOTAL 499. 12579. 1116. 19. 73.
---TOTAL--- 1507. 38603. 3420. 57. 224.
(TONS) 1.66 42.51 3.77 0.06 0.25

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 919299. 15423. 59.61
OTH. PRINC. ART.(2) 524825. 12167. 43.13
MINOR ARTERIAL (6) 22834. 550. 41.52
CENCON & INTRAS (9) 155021. 7751. 20.00
SUBTOTAL 1621979. 35891. 45.19
-----URBAN-----
INTERSTATE (11) 473401. 7983. 59.30
OTH. PRINC. ART.(14) 168917. 4631. 36.47
MINOR ARTERIAL (16) 55589. 1452. 38.30
CENCON & INTRAS (19) 89841. 5895. 15.24
SUBTOTAL 787747. 19961. 39.46
TOTAL 2409726. 55852. 43.14

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Boone County
VOC EXHST EXHST TOTAL
HPMS TYPE      HC   CO   NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 489. 14582. 1377. 20. 80.
OTH. PRINC. ART.(2) 676. 16067. 1320. 26. 100.
MINOR ARTERIAL (6) 126. 2690. 223. 4. 17.
CENCON & INTRAS (9) 250. 3937. 331. 6. 24.
SUBTOTAL 1541. 37276. 3252. 57. 221.
-----URBAN-----
OTH. PRINC. ART.(14) 131. 2896. 240. 5. 18.
MINOR ARTERIAL (16) 50. 1086. 90. 2. 7.
CENCON & INTRAS (19) 46. 717. 60. 1. 4.
SUBTOTAL 226. 4700. 390. 8. 29.
---TOTAL--- 1767. 41976. 3641. 64. 251.
(TONS)      1.95 46.23 4.01 0.07 0.28

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DAILY TRAVEL STATS

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Boone County
DAILY DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 860488. 14007. 61.43
OTH. PRINC. ART.(2) 1077623. 27630. 39.00
MINOR ARTERIAL (6) 181496. 6429. 28.23
CENCON & INTRAS (9) 261951. 13098. 20.00
SUBTOTAL 2381558. 61163. 38.94
-----URBAN-----
OTH. PRINC. ART.(14) 194863. 6271. 31.08
MINOR ARTERIAL (16) 74702. 2376. 31.45
CENCON & INTRAS (19) 47712. 3181. 15.00
SUBTOTAL 317276. 11827. 26.83
TOTAL 2698834. 72990. 36.98

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 215. 6395. 602. 9. 35.
OTH. PRINC. ART.(2) 863. 21384. 1780. 33. 129.
MINOR ARTERIAL (6) 81. 1876. 153. 3. 12.
CENCON & INTRAS (9) 302. 5200. 446. 8. 32.
SUBTOTAL 1461. 34854. 2982. 53. 208.
-----URBAN-----
OTH. PRINC. ART.(14) 166. 4415. 380. 7. 26.
MINOR ARTERIAL (16) 23. 544. 44. 1. 3.
CENCON & INTRAS (19) 28. 438. 37. 1. 3.
SUBTOTAL 217. 5396. 461. 8. 32.
---TOTAL--- 1678. 40250. 3443. 61. 240.
(TONS) 1.85 44.33 3.79 0.07 0.26

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 377866. 6171. 61.24
OTH. PRINC. ART.(2) 1388291. 33933. 40.91
MINOR ARTERIAL (6) 128947. 3369. 38.28
CENCON & INTRAS (9) 339214. 15018. 22.59
SUBTOTAL 2234318. 58491. 38.20
-----URBAN-----
OTH. PRINC. ART.(14) 279478. 5711. 48.94
MINOR ARTERIAL (16) 37107. 941. 39.41
CENCON & INTRAS (19) 29136. 1942. 15.00
SUBTOTAL 345721. 8595. 40.22
TOTAL 2580040. 67086. 38.46

 Madison County
 VOC EXHST EXHST TOTAL
 HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
 INTERSTATE (1) 537. 14745. 1305. 22. 85.
 OTH. PRINC. ART.(2) 621. 15471. 1266. 24. 95.
 MINOR ARTERIAL (6) 10. 241. 20. 0. 2.
 CENCON & INTRAS (9) 305. 4910. 413. 8. 30.
 SUBTOTAL 1473. 35367. 3004. 54. 212.
 -----URBAN-----
 INTERSTATE (11) 136. 3839. 342. 6. 22.
 OTH. PRINC. ART.(14) 591. 13798. 1132. 22. 87.
 CENCON & INTRAS (19) 260. 4084. 344. 6. 25.
 SUBTOTAL 987. 21721. 1818. 34. 134.
 ---TOTAL--- 2460. 57088. 4821. 89. 346.
 (TONS) 2.71 62.87 5.31 0.10 0.38

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 HPMS TYPE VMT VHT SPEED

-----RURAL-----
 INTERSTATE (1) 918041. 17255. 53.20
 OTH. PRINC. ART.(2) 1019152. 23053. 44.21
 MINOR ARTERIAL (6) 16415. 412. 39.89
 CENCON & INTRAS (9) 326057. 15744. 20.71
 SUBTOTAL 2279666. 56463. 40.37
 -----URBAN-----
 INTERSTATE (11) 235915. 4237. 55.68
 OTH. PRINC. ART.(14) 935315. 24747. 37.80
 CENCON & INTRAS (19) 271743. 18116. 15.00
 SUBTOTAL 1442974. 47099. 30.64
 TOTAL 3722642. 103562. 35.95

Total Model Area
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 2788. 80781. 7451. 116. 451.
OTH. PRINC. ART.(2) 4691. 114388. 9413. 180. 702.
MINOR ARTERIAL (6) 1214. 26714. 2199. 43. 167.
CENCON & INTRAS (9) 2283. 36492. 3080. 58. 225.
SUBTOTAL 10976. 258375. 22143. 396. 1546.

-----URBAN-----

INTERSTATE (11) 8435. 221952. 19559. 334. 1303.
OTH.FWY & XWAY (12) 1258. 27502. 2279. 44. 173.
OTH. PRINC. ART.(14) 8852. 197041. 16286. 319. 1243.
MINOR ARTERIAL (16) 8299. 178865. 14796. 291. 1134.
CENCON & INTRAS (19) 4101. 64556. 5434. 103. 399.
SUBTOTAL 30945. 689916. 58353. 1090. 4252.

---TOTAL--- 41922. 948293. 80496. 1486. 5798.
(TONS) 46.17 1044.38 88.65 1.64 6.39

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 4859328. 83611. 58.12
OTH. PRINC. ART.(2) 7590475. 199160. 38.11
MINOR ARTERIAL (6) 1802510. 58343. 30.89
CENCON & INTRAS (9) 2420722. 118534. 20.42
SUBTOTAL 16673038. 459649. 36.27

-----URBAN-----

INTERSTATE (11) 14061628. 307137. 45.78
OTH.FWY & XWAY (12) 1863429. 61118. 30.49
OTH. PRINC. ART.(14) 13488757. 480963. 28.05
MINOR ARTERIAL (16) 12210725. 412375. 29.61
CENCON & INTRAS (19) 4295532. 285423. 15.05
SUBTOTAL 45920128. 1547017. 29.68

TOTAL 62593156. 2006665. 31.19

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:58:12 23MAR09

EMISSIONS IN KILOGRAMS PER DAY +++ ALTERNATIVE IS:10A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

CBD	(1)	1017.	22758.	1912.	37.	142.
CDB FRINGE	(2)	9537.	213893.	17982.	342.	1335.
RESIDENTIAL	(3)	9997.	221863.	18857.	347.	1354.
RURAL	(5)	383.	8740.	762.	13.	50.
---TOTAL---		20934.	467254.	39512.	739.	2881.
(TONS)		23.06	514.60	43.52	0.81	3.17

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

FREEWAY	(1)	6478.	168331.	14799.	256.	998.
EXPRESSWAY	(2)	444.	9807.	812.	16.	62.
2-WAY ART w/prk	(3)	6109.	130327.	10783.	212.	825.
ONE-WAY ARTERIAL	(4)	590.	13010.	1075.	21.	84.
CENTROID CONNECT	(5)	2345.	36907.	3107.	59.	228.
2-WAY ART wo/prk	(6)	4778.	104039.	8596.	169.	660.
FREEWAY RAMPS	(7)	189.	4834.	341.	6.	25.
---TOTAL---		20934.	467254.	39512.	739.	2881.
(TONS)		23.06	514.60	43.52	0.81	3.17

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED

CBD	(1)	1533429.	47716.	32.14
CDB FRINGE	(2)	14371063.	444076.	32.36
RESIDENTIAL	(3)	14720710.	560537.	26.26
RURAL	(5)	568114.	34161.	16.63
TOTAL		31193356.	1086488.	28.71

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED

FREEWAY	(1)	10776507.	236247.	45.62
EXPRESSWAY	(2)	664269.	21213.	31.31
2-WAY ART w/prk	(3)	8890855.	310497.	28.63
ONE-WAY ARTERIAL	(4)	899097.	27316.	32.91
CENTROID CONNECT	(5)	2455735.	163402.	15.03
2-WAY ART wo/prk	(6)	7236968.	314750.	22.99
FREEWAY RAMPS	(7)	269891.	13063.	20.66
TOTAL		31193356.	1086488.	28.71

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 203. 4905. 425. 7. 29.
RESIDENTIAL (3) 3461. 71844. 5983. 116. 452.
SUBURBAN CBD (4) 260. 5626. 465. 9. 35.
RURAL (5) 1699. 38123. 3187. 60. 234.
---TOTAL--- 5623. 120498. 10060. 193. 751.
(TONS) 6.19 132.71 11.08 0.21 0.83

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 747. 18905. 1646. 29. 114.
EXPRESSWAY (2) 957. 21419. 1771. 34. 134.
2-WAY ART w/prk (3) 1434. 30793. 2550. 50. 195.
ONE-WAY ARTERIAL (4) 1. 13. 1. 0. 0.
CENTROID CONNECT (5) 1107. 17421. 1466. 28. 108.
2-WAY ART wo/prk (6) 1378. 31947. 2626. 51. 201.
---TOTAL--- 5623. 120498. 10060. 193. 751.
(TONS) 6.19 132.71 11.08 0.21 0.83

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 314124. 8814. 35.64
RESIDENTIAL (3) 4867144. 179603. 27.10
SUBURBAN CBD (4) 380319. 12675. 30.00
RURAL (5) 2522096. 70881. 35.58
TOTAL 8083680. 271974. 29.72

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1228430. 27891. 44.04
EXPRESSWAY (2) 1439170. 44768. 32.15
2-WAY ART w/prk (3) 2094048. 71532. 29.27
ONE-WAY ARTERIAL (4) 851. 19. 45.00
CENTROID CONNECT (5) 1159129. 68964. 16.81
2-WAY ART wo/prk (6) 2162058. 58800. 36.77
TOTAL 8083680. 271974. 29.72

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 139. 3039. 250. 5. 19.
RESIDENTIAL (3) 1270. 27602. 2352. 43. 169.
SUBURBAN CBD (4) 150. 3168. 262. 5. 20.
RURAL (5) 1449. 32504. 2752. 51. 198.
---TOTAL--- 3009. 66313. 5616. 104. 406.
(TONS) 3.31 73.03 6.18 0.11 0.45

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 321. 9602. 912. 13. 53.
EXPRESSWAY (2) 144. 3598. 298. 6. 22.
2-WAY ART w/prk (3) 612. 13673. 1131. 22. 86.
CENTROID CONNECT (5) 621. 9773. 823. 16. 60.
2-WAY ART wo/prk (6) 1310. 29668. 2453. 47. 185.
---TOTAL--- 3009. 66313. 5616. 104. 406.
(TONS) 3.31 73.03 6.18 0.11 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 208114. 6476. 32.14
RESIDENTIAL (3) 1817930. 63774. 28.51
SUBURBAN CBD (4) 216346. 7527. 28.74
RURAL (5) 2127878. 62898. 33.83
TOTAL 4370270. 140675. 31.07

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 565873. 9213. 61.42
EXPRESSWAY (2) 237145. 5408. 43.85
2-WAY ART w/prk (3) 925001. 28496. 32.46
CENTROID CONNECT (5) 650300. 37630. 17.28
2-WAY ART wo/prk (6) 1991950. 59928. 33.24
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1429. 33062. 2786. 52. 203.
RURAL (5) 1446. 34732. 3032. 53. 205.
---TOTAL--- 2875. 67794. 5818. 104. 408.
(TONS) 3.17 74.66 6.41 0.12 0.45

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 819. 23662. 2181. 34. 132.
2-WAY ART w/prk (3) 389. 8825. 725. 14. 56.
CENTROID CONNECT (5) 534. 8403. 707. 13. 52.
2-WAY ART wo/prk (6) 1134. 26904. 2204. 43. 167.
---TOTAL--- 2875. 67794. 5818. 104. 408.
(TONS) 3.17 74.66 6.41 0.12 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2181215. 62810. 34.73
RURAL (5) 2206333. 56707. 38.91
TOTAL 4387548. 119517. 36.71

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1425147. 24616. 57.89
2-WAY ART w/prk (3) 607634. 16968. 35.81
CENTROID CONNECT (5) 559108. 31464. 17.77
2-WAY ART wo/prk (6) 1795659. 46469. 38.64
TOTAL 4387548. 119517. 36.71

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1471. 35503. 3092. 54. 212.
SUBURBAN CBD (4) 23. 540. 44. 1. 3.
RURAL (5) 574. 12471. 1027. 20. 77.
---TOTAL--- 2069. 48514. 4164. 75. 292.
(TONS) 2.28 53.43 4.59 0.08 0.32

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 539. 15796. 1463. 22. 88.
2-WAY ART w/prk (3) 445. 9762. 807. 16. 62.
CENTROID CONNECT (5) 353. 5554. 468. 9. 34.
2-WAY ART wo/prk (6) 731. 17402. 1427. 28. 108.
---TOTAL--- 2069. 48514. 4164. 75. 292.
(TONS) 2.28 53.43 4.59 0.08 0.32

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2278500. 62824. 36.27
SUBURBAN CBD (4) 35983. 1017. 35.37
RURAL (5) 832566. 24679. 33.74
TOTAL 3147050. 88520. 35.55

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 944578. 15884. 59.47
2-WAY ART w/prk (3) 666162. 21242. 31.36
CENTROID CONNECT (5) 369580. 21697. 17.03
2-WAY ART wo/prk (6) 1166728. 29697. 39.29
TOTAL 3147050. 88520. 35.55

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Shelby County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 492. 12428. 1103. 19. 72.
SUBURBAN CBD (4) 7. 151. 12. 0. 1.
RURAL (5) 1009. 26024. 2304. 39. 151.
---TOTAL--- 1507. 38603. 3420. 57. 224.
(TONS) 1.66 42.51 3.77 0.06 0.25
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Shelby County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 795. 23291. 2156. 33. 129.
2-WAY ART w/prk (3) 52. 1245. 103. 2. 8.
CENTROID CONNECT (5) 232. 3647. 307. 6. 23.
2-WAY ART wo/prk (6) 428. 10421. 854. 16. 64.
---TOTAL--- 1507. 38603. 3420. 57. 224.
(TONS) 1.66 42.51 3.77 0.06 0.25
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DAILY TRAVEL STATS

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-----
Shelby County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 777533. 19683. 39.50
SUBURBAN CBD (4) 10214. 278. 36.72
RURAL (5) 1621979. 35891. 45.19
TOTAL 2409726. 55852. 43.14
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Shelby County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1392700. 23406. 59.50
2-WAY ART w/prk (3) 84330. 2119. 39.79
CENTROID CONNECT (5) 242639. 13592. 17.85
2-WAY ART wo/prk (6) 690057. 16735. 41.23
TOTAL 2409726. 55852. 43.14
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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 221. 4585. 381.  7.  29.
SUBURBAN CBD (4)  5. 115.  9.  0.  1.
RURAL (5) 1541. 37276. 3252. 57. 221.
---TOTAL---    1767. 41976. 3641. 64. 251.
(TONS)         1.95 46.23 4.01 0.07 0.28
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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 489. 14582. 1377. 20. 80.
2-WAY ART w/prk (3) 175. 3776. 313.  6. 24.
CENTROID CONNECT (5) 296. 4654. 392.  7. 29.
2-WAY ART wo/prk (6) 807. 18964. 1559. 30. 118.
---TOTAL---    1767. 41976. 3641. 64. 251.
(TONS)         1.95 46.23 4.01 0.07 0.28
-----

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 309713.  11629. 26.63
SUBURBAN CBD (4)  7563.   198. 38.13
RURAL (5) 2381558.  61163. 38.94
TOTAL      2698834.  72990. 36.98
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE  VMT    VHT  SPEED
-----
FREEWAY (1) 860488.  14007. 61.43
2-WAY ART w/prk (3) 256198.  8804. 29.10
CENTROID CONNECT (5) 309663.  16278. 19.02
2-WAY ART wo/prk (6) 1272486.  33900. 37.54
TOTAL      2698834.  72990. 36.98
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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 195. 4746. 400. 7. 29.
SUBURBAN CBD (4) 1. 27. 2. 0. 0.
RURAL (5) 1481. 35478. 3041. 54. 211.
---TOTAL--- 1678. 40250. 3443. 61. 240.
(TONS) 1.85 44.33 3.79 0.07 0.26

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 269. 7997. 753. 11. 44.
EXPRESSWAY (2) 88. 2523. 222. 4. 14.
2-WAY ART w/prk (3) 104. 2420. 198. 4. 15.
CENTROID CONNECT (5) 296. 4659. 392. 7. 29.
2-WAY ART wo/prk (6) 921. 22652. 1879. 35. 137.
---TOTAL--- 1678. 40250. 3443. 61. 240.
(TONS) 1.85 44.33 3.79 0.07 0.26

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 307322. 7958. 38.62
SUBURBAN CBD (4) 1769. 47. 37.93
RURAL (5) 2270950. 59081. 38.44
TOTAL 2580040. 67086. 38.46

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 472861. 7737. 61.12
EXPRESSWAY (2) 152799. 2645. 57.76
2-WAY ART w/prk (3) 166054. 4310. 38.52
CENTROID CONNECT (5) 309986. 15985. 19.39
2-WAY ART wo/prk (6) 1478340. 36409. 40.60
TOTAL 2580040. 67086. 38.46

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 949. 20821. 1744. 33. 128.
 SUBURBAN CBD (4) 38. 900. 74. 1. 6.
 RURAL (5) 1473. 35367. 3004. 54. 212.
 ---TOTAL--- 2460. 57088. 4821. 89. 346.
 (TONS) 2.71 62.87 5.31 0.10 0.38

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 673. 18584. 1648. 27. 107.
 2-WAY ART w/prk (3) 10. 241. 20. 0. 2.
 CENTROID CONNECT (5) 553. 8699. 732. 14. 54.
 2-WAY ART wo/prk (6) 1224. 29565. 2422. 47. 183.
 ---TOTAL--- 2460. 57088. 4821. 89. 346.
 (TONS) 2.71 62.87 5.31 0.10 0.38

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1382376. 45538. 30.36
 SUBURBAN CBD (4) 60597. 1562. 38.80
 RURAL (5) 2279666. 56463. 40.37
 TOTAL 3722642. 103562. 35.95

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1153956. 21492. 53.69
 2-WAY ART w/prk (3) 16415. 412. 39.89
 CENTROID CONNECT (5) 578797. 33469. 17.29
 2-WAY ART wo/prk (6) 1973472. 48190. 40.95
 TOTAL 3722642. 103562. 35.95

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1017. 22758. 1912. 37. 142.
CDB FRINGE (2) 9879. 221837. 18657. 355. 1383.
RESIDENTIAL (3) 19486. 432453. 36697. 679. 2647.
SUBURBAN CBD (4) 485. 10526. 869. 17. 66.
RURAL (5) 11055. 260716. 22361. 400. 1559.
---TOTAL--- 41922. 948293. 80496. 1486. 5798.
(TONS) 46.17 1044.38 88.65 1.64 6.39

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 11131. 300751. 26935. 447. 1745.
EXPRESSWAY (2) 1633. 37346. 3103. 59. 232.
2-WAY ART w/prk (3) 9331. 201062. 16629. 326. 1273.
ONE-WAY ARTERIAL (4) 591. 13022. 1076. 21. 84.
CENTROID CONNECT (5) 6336. 99716. 8393. 159. 616.
2-WAY ART wo/prk (6) 12710. 291559. 24019. 467. 1824.
FREEWAY RAMPS (7) 189. 4834. 341. 6. 25.
---TOTAL--- 41922. 948293. 80496. 1486. 5798.
(TONS) 46.17 1044.38 88.65 1.64 6.39

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1533429. 47716. 32.14
CDB FRINGE (2) 14893302. 459366. 32.42
RESIDENTIAL (3) 28642444. 1014355. 28.24
SUBURBAN CBD (4) 712791. 23305. 30.59
RURAL (5) 16811138. 461924. 36.39
TOTAL 62593156. 2006665. 31.19

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18820544. 380491. 49.46
EXPRESSWAY (2) 2493383. 74035. 33.68
2-WAY ART w/prk (3) 13706679. 464380. 29.52
ONE-WAY ARTERIAL (4) 899948. 27335. 32.92
CENTROID CONNECT (5) 6634934. 402481. 16.49
2-WAY ART wo/prk (6) 19767702. 644879. 30.65
FREEWAY RAMPS (7) 269891. 13063. 20.66
TOTAL 62593156. 2006665. 31.19

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:57:50 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	4.3010	24.6510	2.0480	0.0250	0.0927
Freeway	5	2.1560	17.5660	1.8960	0.0250	0.0927
Freeway	10	1.1950	11.5450	1.4880	0.0250	0.0927
Freeway	15	0.9190	9.6340	1.2680	0.0250	0.0927
Freeway	20	0.7900	9.0840	1.2170	0.0250	0.0927
Freeway	25	0.7300	8.7820	1.1860	0.0250	0.0927
Freeway	30	0.6890	8.5870	1.1710	0.0249	0.0927
Freeway	35	0.6530	8.6000	1.1700	0.0249	0.0927
Freeway	40	0.6300	8.9350	1.1910	0.0249	0.0927
Freeway	45	0.6110	9.2900	1.2330	0.0249	0.0927
Freeway	50	0.5940	9.6640	1.2950	0.0249	0.0927
Freeway	55	0.5790	10.0570	1.3840	0.0249	0.0927
Freeway	60	0.5680	10.5080	1.5090	0.0249	0.0927
Freeway	65	0.5600	10.9890	1.6850	0.0249	0.0927
Arterial	3	4.3010	24.6510	1.9930	0.0250	0.0927
Arterial	5	2.1560	17.5660	1.8420	0.0250	0.0927
Arterial	10	1.2360	12.1640	1.5380	0.0250	0.0927
Arterial	15	0.9690	10.3570	1.3430	0.0250	0.0927
Arterial	20	0.8130	9.3640	1.2310	0.0250	0.0927
Arterial	25	0.7370	8.8480	1.1630	0.0250	0.0927
Arterial	30	0.6900	8.5990	1.1250	0.0249	0.0927
Arterial	35	0.6530	8.6000	1.1150	0.0249	0.0927
Arterial	40	0.6300	8.9350	1.1370	0.0249	0.0927
Arterial	45	0.6110	9.2900	1.1780	0.0249	0.0927
Arterial	50	0.5940	9.6640	1.2400	0.0249	0.0927
Arterial	55	0.5790	10.0570	1.3290	0.0249	0.0927
Arterial	60	0.5680	10.5080	1.4540	0.0249	0.0927
Arterial	65	0.5600	10.9890	1.6300	0.0249	0.0927
Local	1	1.0250	9.3170	1.2200	0.0250	0.0927
Ramps	1	0.7060	11.3500	1.1880	0.0249	0.0927

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:57:50 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:10A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	110.	2056.	300.	5.	18.
OTH. PRINC. ART.(2)	2.	29.	4.	0.	0.
MINOR ARTERIAL (6)	244.	2864.	360.	7.	27.
CENCON & INTRAS (9)	23.	206.	27.	1.	2.
SUBTOTAL	379.	5157.	691.	13.	47.

-----URBAN-----

INTERSTATE (11)	6599.	104929.	14277.	269.	1003.
OTH.FWY & XWAY (12)	453.	5982.	773.	17.	62.
OTH. PRINC. ART.(14)	5502.	71315.	9206.	200.	742.
MINOR ARTERIAL (16)	6002.	76437.	9879.	214.	795.
CENCON & INTRAS (19)	2495.	22685.	2970.	61.	226.
SUBTOTAL	21052.	281348.	37106.	760.	2828.

---TOTAL---	21430.	286505.	37797.	773.	2875.
(TONS)	23.60	315.53	41.63	0.85	3.17

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	193018.	3301.	58.48
OTH. PRINC. ART.(2)	32585.	14992.	2.17
MINOR ARTERIAL (6)	293384.	14317.	20.49
CENCON & INTRAS (9)	22137.	1107.	20.00
SUBTOTAL	541124.	33717.	16.05

-----URBAN-----

INTERSTATE (11)	10853381.	246010.	44.12
OTH.FWY & XWAY (12)	664269.	21213.	31.31
OTH. PRINC. ART.(14)	8113337.	328572.	24.69
MINOR ARTERIAL (16)	8586289.	294637.	29.14
CENCON & INTRAS (19)	2434930.	162341.	15.00
SUBTOTAL	30652236.	1052771.	29.12
TOTAL	31193356.	1086488.	28.71

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Hamilton County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----

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INTERSTATE (1) 265. 4395. 596. 11. 42.
OTH. PRINC. ART.(2) 611. 9135. 1161. 25. 92.
MINOR ARTERIAL (6) 365. 4912. 632. 14. 52.
CENCON & INTRAS (9) 459. 4173. 546. 11. 42.
      SUBTOTAL 1700. 22615. 2935. 61. 227.

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-----URBAN-----

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INTERSTATE (11) 446. 6444. 873. 18. 65.
OTH.FWY & XWAY (12) 740. 9487. 1229. 26. 98.
OTH. PRINC. ART.(14) 906. 12441. 1615. 34. 128.
MINOR ARTERIAL (16) 1265. 16150. 2085. 45. 166.
CENCON & INTRAS (19) 729. 6627. 868. 18. 66.
      SUBTOTAL 4086. 51149. 6670. 141. 522.

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---TOTAL---      5785. 73763. 9605. 201. 749.
(TONS)           6.37 81.24 10.58 0.22 0.83

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DAILY TRAVEL STATS

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Hamilton County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----

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INTERSTATE (1) 448844. 8735. 51.38
OTH. PRINC. ART.(2) 991996. 22745. 43.61
MINOR ARTERIAL (6) 558921. 15767. 35.45
CENCON & INTRAS (9) 447855. 22393. 20.00
      SUBTOTAL 2447616. 69640. 35.15

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-----URBAN-----

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INTERSTATE (11) 705106. 17914. 39.36
OTH.FWY & XWAY (12) 1052127. 36182. 29.08
OTH. PRINC. ART.(14) 1378055. 39546. 34.85
MINOR ARTERIAL (16) 1789507. 62120. 28.81
CENCON & INTRAS (19) 711274. 46571. 15.27
      SUBTOTAL 5636067. 202334. 27.86
TOTAL          8083680. 271974. 29.72

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Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 164. 3072. 447. 7. 27.
OTH. PRINC. ART.(2) 774. 11039. 1423. 30. 111.
MINOR ARTERIAL (6) 196. 2696. 347. 7. 27.
CENCON & INTRAS (9) 352. 3200. 419. 9. 32.
SUBTOTAL 1486. 20005. 2636. 53. 197.

-----URBAN-----

INTERSTATE (11) 156. 2962. 442. 7. 26.
OTH.FWY & XWAY (12) 93. 1309. 167. 4. 14.
OTH. PRINC. ART.(14) 612. 7982. 1029. 22. 82.
MINOR ARTERIAL (16) 428. 5645. 728. 16. 58.
CENCON & INTRAS (19) 315. 2859. 374. 8. 28.
SUBTOTAL 1604. 20757. 2740. 56. 208.

---TOTAL--- 3090. 40763. 5377. 109. 405.
(TONS) 3.40 44.89 5.92 0.12 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 289686. 4750. 60.99
OTH. PRINC. ART.(2) 1200218. 32325. 37.13
MINOR ARTERIAL (6) 294570. 8653. 34.04
CENCON & INTRAS (9) 343405. 17170. 20.00
SUBTOTAL 2127878. 62898. 33.83

-----URBAN-----

INTERSTATE (11) 276187. 4463. 61.89
OTH.FWY & XWAY (12) 147033. 3723. 39.49
OTH. PRINC. ART.(14) 881844. 29288. 30.11
MINOR ARTERIAL (16) 630432. 19843. 31.77
CENCON & INTRAS (19) 306895. 20460. 15.00
SUBTOTAL 2242390. 77777. 28.83
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 483. 9035. 1315. 21. 79.
OTH. PRINC. ART.(2) 535. 7912. 1009. 21. 79.
MINOR ARTERIAL (6) 102. 1319. 171. 4. 14.
CENCON & INTRAS (9) 357. 3248. 425. 9. 32.
SUBTOTAL 1476. 21514. 2921. 55. 205.

-----URBAN-----

INTERSTATE (11) 334. 5759. 802. 14. 53.
OTH. PRINC. ART.(14) 571. 7898. 1007. 22. 81.
MINOR ARTERIAL (16) 337. 4669. 598. 13. 49.
CENCON & INTRAS (19) 216. 1965. 257. 5. 20.
SUBTOTAL 1458. 20291. 2665. 54. 202.

---TOTAL--- 2934. 41805. 5586. 109. 407.
(TONS) 3.23 46.04 6.15 0.12 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 852085. 13970. 60.99
OTH. PRINC. ART.(2) 855643. 20579. 41.58
MINOR ARTERIAL (6) 150040. 4730. 31.72
CENCON & INTRAS (9) 348564. 17428. 20.00
SUBTOTAL 2206333. 56707. 38.91

-----URBAN-----

INTERSTATE (11) 573062. 10646. 53.83
OTH. PRINC. ART.(14) 870376. 24237. 35.91
MINOR ARTERIAL (16) 526841. 13881. 37.95
CENCON & INTRAS (19) 210936. 14045. 15.02
SUBTOTAL 2181215. 62810. 34.73
TOTAL 4387548. 119517. 36.71

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 310. 4618. 588. 12. 46.
MINOR ARTERIAL ( 6) 100. 1379. 177. 4. 14.
CENCON & INTRAS ( 9) 181. 1645. 215. 4. 16.
      SUBTOTAL 591. 7641. 980. 21. 77.
-----URBAN-----
INTERSTATE (11) 538. 9890. 1421. 24. 88.
OTH. PRINC. ART.(14) 430. 6007. 769. 17. 62.
MINOR ARTERIAL (16) 355. 4565. 590. 13. 47.
CENCON & INTRAS (19) 198. 1799. 236. 5. 18.
      SUBTOTAL 1521. 22261. 3016. 58. 215.
---TOTAL---      2112. 29902. 3996. 78. 292.
(TONS)           2.33 32.93 4.40 0.09 0.32

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 500147. 11736. 42.62
MINOR ARTERIAL ( 6) 155903. 4117. 37.87
CENCON & INTRAS ( 9) 176516. 8826. 20.00
      SUBTOTAL 832566. 24679. 33.74
-----URBAN-----
INTERSTATE (11) 944578. 15884. 59.47
OTH. PRINC. ART.(14) 666582. 17961. 37.11
MINOR ARTERIAL (16) 510259. 17125. 29.80
CENCON & INTRAS (19) 193064. 12871. 15.00
      SUBTOTAL 2314482. 63841. 36.25
TOTAL 3147050. 88520. 35.55

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Shelby County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 523. 9637. 1387. 23. 85.
OTH. PRINC. ART.(2) 324. 4879. 621. 13. 49.
MINOR ARTERIAL (6) 14. 209. 27. 1. 2.
CENCON & INTRAS (9) 159. 1444. 189. 4. 14.
      SUBTOTAL 1021. 16170. 2224. 40. 150.
-----URBAN-----
INTERSTATE (11) 270. 4947. 708. 12. 44.
OTH. PRINC. ART.(14) 110. 1537. 197. 4. 16.
MINOR ARTERIAL (16) 35. 491. 63. 1. 5.
CENCON & INTRAS (19) 91. 836. 109. 2. 8.
      SUBTOTAL 506. 7811. 1077. 20. 73.
---TOTAL---      1527. 23980. 3301. 60. 223.
(TONS)           1.68 26.41 3.64 0.07 0.25

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DAILY TRAVEL STATS

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Shelby County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 919299. 15423. 59.61
OTH. PRINC. ART.(2) 524825. 12167. 43.13
MINOR ARTERIAL (6) 22834. 550. 41.52
CENCON & INTRAS (9) 155021. 7751. 20.00
      SUBTOTAL 1621979. 35891. 45.19
-----URBAN-----
INTERSTATE (11) 473401. 7983. 59.30
OTH. PRINC. ART.(14) 168917. 4631. 36.47
MINOR ARTERIAL (16) 55589. 1452. 38.30
CENCON & INTRAS (19) 89841. 5895. 15.24
      SUBTOTAL 787747. 19961. 39.46
TOTAL        2409726. 55852. 43.14

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 487. 9161. 1342. 21. 80.
OTH. PRINC. ART.(2) 684. 9808. 1255. 27. 100.
MINOR ARTERIAL (6) 129. 1643. 212. 5. 17.
CENCON & INTRAS (9) 268. 2441. 320. 7. 24.
      SUBTOTAL 1568. 23053. 3129. 59. 221.
-----URBAN-----
OTH. PRINC. ART.(14) 133. 1769. 228. 5. 18.
MINOR ARTERIAL (16) 51. 660. 85. 2. 7.
CENCON & INTRAS (19) 49. 445. 58. 1. 4.
      SUBTOTAL 233. 2874. 372. 8. 29.
---TOTAL---      1801. 25926. 3501. 67. 250.
(TONS)           1.98 28.55 3.86 0.07 0.28

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 860488. 14007. 61.43
OTH. PRINC. ART.(2) 1077623. 27630. 39.00
MINOR ARTERIAL (6) 181496. 6429. 28.23
CENCON & INTRAS (9) 261951. 13098. 20.00
      SUBTOTAL 2381558. 61163. 38.94
-----URBAN-----
OTH. PRINC. ART.(14) 194863. 6271. 31.08
MINOR ARTERIAL (16) 74702. 2376. 31.45
CENCON & INTRAS (19) 47712. 3181. 15.00
      SUBTOTAL 317276. 11827. 26.83
TOTAL          2698834. 72990. 36.98

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Morgan County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 214. 4016. 587. 9. 35.
OTH. PRINC. ART.(2) 872. 13151. 1699. 35. 129.
MINOR ARTERIAL (6) 82. 1139. 146. 3. 12.
CENCON & INTRAS (9) 321. 3230. 431. 8. 31.
      SUBTOTAL 1489. 21536. 2862. 56. 207.
-----URBAN-----
OTH. PRINC. ART.(14) 167. 2730. 365. 7. 26.
MINOR ARTERIAL (16) 23. 331. 42. 1. 3.
CENCON & INTRAS (19) 30. 271. 36. 1. 3.
      SUBTOTAL 220. 3332. 443. 9. 32.
---TOTAL---      1709. 24868. 3305. 64. 239.
(TONS)           1.88 27.39 3.64 0.07 0.26

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DAILY TRAVEL STATS

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Morgan County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 377866. 6171. 61.24
OTH. PRINC. ART.(2) 1388291. 33933. 40.91
MINOR ARTERIAL (6) 128947. 3369. 38.28
CENCON & INTRAS (9) 339214. 15018. 22.59
      SUBTOTAL 2234318. 58491. 38.20
-----URBAN-----
OTH. PRINC. ART.(14) 279478. 5711. 48.94
MINOR ARTERIAL (16) 37107. 941. 39.41
CENCON & INTRAS (19) 29136. 1942. 15.00
      SUBTOTAL 345721. 8595. 40.22
TOTAL          2580040. 67086. 38.46

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Madison County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 537. 9147. 1260. 23. 85.
OTH. PRINC. ART.(2) 626. 9477. 1205. 25. 94.
MINOR ARTERIAL (6) 10. 147. 19. 0. 2.
CENCON & INTRAS (9) 326. 3042. 398. 8. 30.
      SUBTOTAL 1499. 21813. 2881. 57. 211.
-----URBAN-----
INTERSTATE (11) 136. 2387. 331. 6. 22.
OTH. PRINC. ART.(14) 600. 8404. 1076. 23. 87.
CENCON & INTRAS (19) 279. 2532. 332. 7. 25.
      SUBTOTAL 1014. 13323. 1738. 36. 134.
---TOTAL---      2513. 35137. 4619. 93. 345.
(TONS)           2.77 38.70 5.09 0.10 0.38

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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 918041. 17255. 53.20
OTH. PRINC. ART.(2) 1019152. 23053. 44.21
MINOR ARTERIAL (6) 16415. 412. 39.89
CENCON & INTRAS (9) 326057. 15744. 20.71
      SUBTOTAL 2279666. 56463. 40.37
-----URBAN-----
INTERSTATE (11) 235915. 4237. 55.68
OTH. PRINC. ART.(14) 935315. 24747. 37.80
CENCON & INTRAS (19) 271743. 18116. 15.00
      SUBTOTAL 1442974. 47099. 30.64
TOTAL        3722642. 103562. 35.95

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Total Model Area
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 2782. 50519. 7234. 121. 450.
OTH. PRINC. ART.(2) 4738. 70048. 8964. 188. 701.
MINOR ARTERIAL (6) 1242. 16308. 2092. 45. 167.
CENCON & INTRAS (9) 2447. 22628. 2971. 61. 224.
SUBTOTAL 11208. 159503. 21261. 415. 1543.

-----URBAN-----

INTERSTATE (11) 8479. 137319. 18854. 349. 1300.
OTH.FWY & XWAY (12) 1286. 16777. 2168. 46. 173.
OTH. PRINC. ART.(14) 9031. 120082. 15492. 333. 1241.
MINOR ARTERIAL (16) 8497. 108948. 14072. 304. 1131.
CENCON & INTRAS (19) 4401. 40020. 5240. 107. 398.
SUBTOTAL 31694. 423146. 55827. 1141. 4243.

---TOTAL--- 42901. 582648. 77088. 1555. 5786.
(TONS) 47.25 641.68 84.90 1.71 6.37

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 4859328. 83611. 58.12
OTH. PRINC. ART.(2) 7590475. 199160. 38.11
MINOR ARTERIAL (6) 1802510. 58343. 30.89
CENCON & INTRAS (9) 2420722. 118534. 20.42
SUBTOTAL 16673038. 459649. 36.27

-----URBAN-----

INTERSTATE (11) 14061628. 307137. 45.78
OTH.FWY & XWAY (12) 1863429. 61118. 30.49
OTH. PRINC. ART.(14) 13488757. 480963. 28.05
MINOR ARTERIAL (16) 12210725. 412375. 29.61
CENCON & INTRAS (19) 4295532. 285423. 15.05
SUBTOTAL 45920128. 1547017. 29.68

TOTAL 62593156. 2006665. 31.19

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:57:50 23MAR09
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:10A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

CBD	(1)	1037.	13897.	1825.	38.	142.
CDB FRINGE	(2)	9743.	130740.	17176.	358.	1332.
RESIDENTIAL	(3)	10256.	136417.	18063.	363.	1351.
RURAL	(5)	394.	5452.	734.	13.	50.
---TOTAL---		21430.	286505.	37797.	773.	2875.
(TONS)		23.60	315.53	41.63	0.85	3.17

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

FREEWAY	(1)	6518.	103922.	14257.	267.	996.
EXPRESSWAY	(2)	453.	5982.	773.	17.	62.
2-WAY ART w/prk	(3)	6263.	79410.	10256.	221.	824.
ONE-WAY ARTERIAL	(4)	602.	7895.	1021.	22.	83.
CENTROID CONNECT	(5)	2517.	22880.	2996.	61.	228.
2-WAY ART wo/prk	(6)	4887.	63352.	8174.	177.	658.
FREEWAY RAMPS	(7)	191.	3063.	321.	7.	25.
---TOTAL---		21430.	286505.	37797.	773.	2875.
(TONS)		23.60	315.53	41.63	0.85	3.17

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

CBD	(1)	1533429.	47716.	32.14	
CDB FRINGE	(2)	14371063.	444076.	32.36	
RESIDENTIAL	(3)	14720710.	560537.	26.26	
RURAL	(5)	568114.	34161.	16.63	
TOTAL		31193356.	1086488.	28.71	

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

FREEWAY	(1)	10776507.	236247.	45.62	
EXPRESSWAY	(2)	664269.	21213.	31.31	
2-WAY ART w/prk	(3)	8890855.	310497.	28.63	
ONE-WAY ARTERIAL	(4)	899097.	27316.	32.91	
CENTROID CONNECT	(5)	2455735.	163402.	15.03	
2-WAY ART wo/prk	(6)	7236968.	314750.	22.99	
FREEWAY RAMPS	(7)	269891.	13063.	20.66	
TOTAL		31193356.	1086488.	28.71	

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 206. 3028. 409. 8. 29.
RESIDENTIAL (3) 3570. 43902. 5706. 121. 451.
SUBURBAN CBD (4) 267. 3436. 443. 9. 35.
RURAL (5) 1742. 23397. 3048. 63. 234.
---TOTAL--- 5785. 73763. 9605. 201. 749.
(TONS) 6.37 81.24 10.58 0.22 0.83

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 753. 11622. 1582. 31. 114.
EXPRESSWAY (2) 976. 13086. 1686. 36. 133.
2-WAY ART w/prk (3) 1469. 18778. 2425. 52. 194.
ONE-WAY ARTERIAL (4) 1. 8. 1. 0. 0.
CENTROID CONNECT (5) 1188. 10800. 1414. 29. 107.
2-WAY ART wo/prk (6) 1398. 19470. 2497. 54. 200.
---TOTAL--- 5785. 73763. 9605. 201. 749.
(TONS) 6.37 81.24 10.58 0.22 0.83

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 314124. 8814. 35.64
RESIDENTIAL (3) 4867144. 179603. 27.10
SUBURBAN CBD (4) 380319. 12675. 30.00
RURAL (5) 2522096. 70881. 35.58
TOTAL 8083680. 271974. 29.72

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1228430. 27891. 44.04
EXPRESSWAY (2) 1439170. 44768. 32.15
2-WAY ART w/prk (3) 2094048. 71532. 29.27
ONE-WAY ARTERIAL (4) 851. 19. 45.00
CENTROID CONNECT (5) 1159129. 68964. 16.81
2-WAY ART wo/prk (6) 2162058. 58800. 36.77
TOTAL 8083680. 271974. 29.72

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 142. 1849. 238. 5. 19.
RESIDENTIAL (3) 1307. 16976. 2253. 45. 169.
SUBURBAN CBD (4) 155. 1932. 249. 5. 20.
RURAL (5) 1486. 20005. 2636. 53. 197.
---TOTAL--- 3090. 40763. 5377. 109. 405.
(TONS) 3.40 44.89 5.92 0.12 0.45

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 320. 6034. 889. 14. 52.
EXPRESSWAY (2) 146. 2204. 284. 6. 22.
2-WAY ART w/prk (3) 624. 8341. 1076. 23. 86.
CENTROID CONNECT (5) 667. 6059. 793. 16. 60.
2-WAY ART wo/prk (6) 1334. 18125. 2334. 50. 185.
---TOTAL--- 3090. 40763. 5377. 109. 405.
(TONS) 3.40 44.89 5.92 0.12 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 208114. 6476. 32.14
RESIDENTIAL (3) 1817930. 63774. 28.51
SUBURBAN CBD (4) 216346. 7527. 28.74
RURAL (5) 2127878. 62898. 33.83
TOTAL 4370270. 140675. 31.07

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 565873. 9213. 61.42
EXPRESSWAY (2) 237145. 5408. 43.85
2-WAY ART w/prk (3) 925001. 28496. 32.46
CENTROID CONNECT (5) 650300. 37630. 17.28
2-WAY ART wo/prk (6) 1991950. 59928. 33.24
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1458. 20291. 2665. 54. 202.
RURAL (5) 1476. 21514. 2921. 55. 205.
---TOTAL--- 2934. 41805. 5586. 109. 407.
(TONS) 3.23 46.04 6.15 0.12 0.45

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 817. 14795. 2118. 35. 132.
2-WAY ART w/prk (3) 396. 5358. 689. 15. 56.
CENTROID CONNECT (5) 573. 5209. 682. 14. 52.
2-WAY ART wo/prk (6) 1149. 16444. 2097. 45. 166.
---TOTAL--- 2934. 41805. 5586. 109. 407.
(TONS) 3.23 46.04 6.15 0.12 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2181215. 62810. 34.73
RURAL (5) 2206333. 56707. 38.91
TOTAL 4387548. 119517. 36.71

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1425147. 24616. 57.89
2-WAY ART w/prk (3) 607634. 16968. 35.81
CENTROID CONNECT (5) 559108. 31464. 17.77
2-WAY ART wo/prk (6) 1795659. 46469. 38.64
TOTAL 4387548. 119517. 36.71

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1497. 21930. 2974. 57. 211.
SUBURBAN CBD (4) 24. 330. 42. 1. 3.
RURAL (5) 591. 7641. 980. 21. 77.
---TOTAL--- 2112. 29902. 3996. 78. 292.
(TONS) 2.33 32.93 4.40 0.09 0.32

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 538. 9890. 1421. 24. 88.
2-WAY ART w/prk (3) 455. 5944. 767. 17. 62.
CENTROID CONNECT (5) 379. 3443. 451. 9. 34.
2-WAY ART wo/prk (6) 740. 10624. 1357. 29. 108.
---TOTAL--- 2112. 29902. 3996. 78. 292.
(TONS) 2.33 32.93 4.40 0.09 0.32

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2278500. 62824. 36.27
SUBURBAN CBD (4) 35983. 1017. 35.37
RURAL (5) 832566. 24679. 33.74
TOTAL 3147050. 88520. 35.55

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 944578. 15884. 59.47
2-WAY ART w/prk (3) 666162. 21242. 31.36
CENTROID CONNECT (5) 369580. 21697. 17.03
2-WAY ART wo/prk (6) 1166728. 29697. 39.29
TOTAL 3147050. 88520. 35.55

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Shelby County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 499. 7718. 1065. 19. 72.
SUBURBAN CBD (4) 7. 92. 12. 0. 1.
RURAL (5) 1021. 16170. 2224. 40. 150.
---TOTAL--- 1527. 23980. 3301. 60. 223.
(TONS) 1.68 26.41 3.64 0.07 0.25
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Shelby County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 793. 14584. 2095. 35. 129.
2-WAY ART w/prk (3) 53. 758. 98. 2. 8.
CENTROID CONNECT (5) 249. 2261. 296. 6. 22.
2-WAY ART wo/prk (6) 432. 6377. 812. 17. 64.
---TOTAL--- 1527. 23980. 3301. 60. 223.
(TONS) 1.68 26.41 3.64 0.07 0.25
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DAILY TRAVEL STATS

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Shelby County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 777533. 19683. 39.50
SUBURBAN CBD (4) 10214. 278. 36.72
RURAL (5) 1621979. 35891. 45.19
TOTAL 2409726. 55852. 43.14
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Shelby County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1392700. 23406. 59.50
2-WAY ART w/prk (3) 84330. 2119. 39.79
CENTROID CONNECT (5) 242639. 13592. 17.85
2-WAY ART wo/prk (6) 690057. 16735. 41.23
TOTAL 2409726. 55852. 43.14
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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 228. 2803. 363.  8.  29.
SUBURBAN CBD (4)  5.  71.  9.  0.  1.
RURAL (5) 1568. 23053. 3129. 59. 221.
---TOTAL---    1801. 25926. 3501. 67. 250.
(TONS)         1.98 28.55 3.86 0.07 0.28
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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 487. 9161. 1342. 21. 80.
2-WAY ART w/prk (3) 179. 2303. 298.  6. 24.
CENTROID CONNECT (5) 317. 2885. 378.  8. 29.
2-WAY ART wo/prk (6) 818. 11577. 1483. 32. 118.
---TOTAL---    1801. 25926. 3501. 67. 250.
(TONS)         1.98 28.55 3.86 0.07 0.28
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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 309713. 11629. 26.63
SUBURBAN CBD (4)  7563.  198. 38.13
RURAL (5) 2381558. 61163. 38.94
TOTAL      2698834. 72990. 36.98
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 860488. 14007. 61.43
2-WAY ART w/prk (3) 256198. 8804. 29.10
CENTROID CONNECT (5) 309663. 16278. 19.02
2-WAY ART wo/prk (6) 1272486. 33900. 37.54
TOTAL      2698834. 72990. 36.98
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Morgan County						
	VOC	EXHST	EXHST	TOTAL		
AREA TYPE	HC	CO	NOx	PM2.5	NH3	

RESIDENTIAL	(3)	198.	2924.	383.	8.	28.
SUBURBAN CBD	(4)	1.	16.	2.	0.	0.
RURAL	(5)	1509.	21928.	2920.	57.	211.
---TOTAL---		1709.	24868.	3305.	64.	239.
(TONS)		1.88	27.39	3.64	0.07	0.26

Morgan County						
	VOC	EXHST	EXHST	TOTAL		
FACILITY	HC	CO	NOx	PM2.5	NH3	
<hr/>						
FREEWAY	(1)	268.	5021.	733.	12.	44.
EXPRESSWAY	(2)	88.	1575.	214.	4.	14.
2-WAY ART w/prk	(3)	106.	1470.	188.	4.	15.
CENTROID CONNECT	(5)	318.	2888.	378.	8.	29.
2-WAY ART wo/prk	(6)	930.	13914.	1792.	37.	137.
---TOTAL---		1709.	24868.	3305.	64.	239.
(TONS)		1.88	27.39	3.64	0.07	0.26

DAILY TRAVEL STATS

Morgan County				
AREA TYPE		DAILY VMT	DAILY VHT	AVERAGE SPEED
<hr/>				
RESIDENTIAL	(3)	307322.	7958.	38.62
SUBURBAN CBD	(4)	1769.	47.	37.93
RURAL	(5)	2270950.	59081.	38.44
TOTAL		2580040.	67086.	38.46

Morgan County				
FACILITY TYPE	DAILY	DAILY	AVERAGE	
	VMT	VMT	VHT	SPEED
<hr/>				
FREEWAY	(1)	472861.	7737.	61.12
EXPRESSWAY	(2)	152799.	2645.	57.76
2-WAY ART w/prk	(3)	166054.	4310.	38.52
CENTROID CONNECT	(5)	309986.	15985.	19.39
2-WAY ART wo/prk	(6)	1478340.	36409.	40.60
TOTAL		2580040.	67086.	38.46

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 976. 12774. 1668. 34. 128.
 SUBURBAN CBD (4) 39. 549. 70. 2. 6.
 RURAL (5) 1499. 21813. 2881. 57. 211.
 ---TOTAL--- 2513. 35137. 4619. 93. 345.
 (TONS) 2.77 38.70 5.09 0.10 0.38

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 673. 11534. 1590. 29. 107.
 2-WAY ART w/prk (3) 10. 147. 19. 0. 2.
 CENTROID CONNECT (5) 593. 5393. 706. 14. 54.
 2-WAY ART wo/prk (6) 1237. 18063. 2304. 49. 183.
 ---TOTAL--- 2513. 35137. 4619. 93. 345.
 (TONS) 2.77 38.70 5.09 0.10 0.38

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1382376. 45538. 30.36
 SUBURBAN CBD (4) 60597. 1562. 38.80
 RURAL (5) 2279666. 56463. 40.37
 TOTAL 3722642. 103562. 35.95

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1153956. 21492. 53.69
 2-WAY ART w/prk (3) 16415. 412. 39.89
 CENTROID CONNECT (5) 578797. 33469. 17.29
 2-WAY ART wo/prk (6) 1973472. 48190. 40.95
 TOTAL 3722642. 103562. 35.95

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1037. 13897. 1825. 38. 142.
CDB FRINGE (2) 10090. 135617. 17822. 371. 1380.
RESIDENTIAL (3) 19990. 265736. 35140. 710. 2642.
SUBURBAN CBD (4) 497. 6426. 827. 18. 66.
RURAL (5) 11287. 160973. 21474. 418. 1556.
---TOTAL--- 42901. 582648. 77088. 1555. 5786.
(TONS) 47.25 641.68 84.90 1.71 6.37

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 11166. 186563. 26027. 468. 1741.
EXPRESSWAY (2) 1662. 22847. 2956. 62. 231.
2-WAY ART w/prk (3) 9555. 122508. 15816. 341. 1270.
ONE-WAY ARTERIAL (4) 602. 7903. 1022. 22. 83.
CENTROID CONNECT (5) 6801. 61818. 8095. 166. 615.
2-WAY ART wo/prk (6) 12925. 177947. 22851. 489. 1820.
FREEWAY RAMPS (7) 191. 3063. 321. 7. 25.
---TOTAL--- 42901. 582648. 77088. 1555. 5786.
(TONS) 47.25 641.68 84.90 1.71 6.37

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1533429. 47716. 32.14
CDB FRINGE (2) 14893302. 459366. 32.42
RESIDENTIAL (3) 28642444. 1014355. 28.24
SUBURBAN CBD (4) 712791. 23305. 30.59
RURAL (5) 16811138. 461924. 36.39
TOTAL 62593156. 2006665. 31.19

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18820544. 380491. 49.46
EXPRESSWAY (2) 2493383. 74035. 33.68
2-WAY ART w/prk (3) 13706679. 464380. 29.52
ONE-WAY ARTERIAL (4) 899948. 27335. 32.92
CENTROID CONNECT (5) 6634934. 402481. 16.49
2-WAY ART wo/prk (6) 19767702. 644879. 30.65
FREEWAY RAMPS (7) 269891. 13063. 20.66
TOTAL 62593156. 2006665. 31.19

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:57:23 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	4.5710	29.9000	2.0450	0.0250	0.0927
Freeway	5	2.2930	21.4140	1.8980	0.0250	0.0927
Freeway	10	1.2680	14.2440	1.4920	0.0250	0.0927
Freeway	15	0.9770	11.9930	1.2730	0.0250	0.0927
Freeway	20	0.8470	11.4140	1.2240	0.0250	0.0927
Freeway	25	0.7830	11.0630	1.1940	0.0250	0.0927
Freeway	30	0.7390	10.8330	1.1810	0.0249	0.0927
Freeway	35	0.7000	10.8490	1.1810	0.0249	0.0927
Freeway	40	0.6760	11.2510	1.2040	0.0249	0.0927
Freeway	45	0.6550	11.6740	1.2460	0.0249	0.0927
Freeway	50	0.6370	12.1170	1.3100	0.0249	0.0927
Freeway	55	0.6200	12.5800	1.4000	0.0249	0.0927
Freeway	60	0.6090	13.1000	1.5260	0.0249	0.0927
Freeway	65	0.6000	13.6520	1.7020	0.0249	0.0927
Arterial	3	4.5710	29.9000	1.9900	0.0250	0.0927
Arterial	5	2.2930	21.4140	1.8430	0.0250	0.0927
Arterial	10	1.3150	14.9890	1.5430	0.0250	0.0927
Arterial	15	1.0330	12.8630	1.3500	0.0250	0.0927
Arterial	20	0.8730	11.7560	1.2390	0.0250	0.0927
Arterial	25	0.7910	11.1450	1.1730	0.0250	0.0927
Arterial	30	0.7400	10.8480	1.1350	0.0249	0.0927
Arterial	35	0.7000	10.8490	1.1260	0.0249	0.0927
Arterial	40	0.6760	11.2510	1.1490	0.0249	0.0927
Arterial	45	0.6550	11.6740	1.1910	0.0249	0.0927
Arterial	50	0.6370	12.1170	1.2550	0.0249	0.0927
Arterial	55	0.6200	12.5800	1.3450	0.0249	0.0927
Arterial	60	0.6090	13.1000	1.4710	0.0249	0.0927
Arterial	65	0.6000	13.6520	1.6480	0.0249	0.0927
Local	1	1.0860	11.6020	1.2240	0.0250	0.0927
Ramps	1	0.7600	14.1690	1.2060	0.0249	0.0927

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:57:23 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:10A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	117.	2561.	304.	5.	18.
OTH. PRINC. ART.(2)	2.	37.	4.	0.	0.
MINOR ARTERIAL (6)	262.	3585.	363.	7.	27.
CENCON & INTRAS (9)	24.	257.	27.	1.	2.
SUBTOTAL	405.	6439.	698.	13.	47.

-----URBAN-----

INTERSTATE (11)	7075.	131486.	14433.	269.	1003.
OTH.FWY & XWAY (12)	486.	7525.	780.	17.	62.
OTH. PRINC. ART.(14)	5899.	89773.	9292.	200.	742.
MINOR ARTERIAL (16)	6435.	96215.	9969.	214.	795.
CENCON & INTRAS (19)	2644.	28249.	2980.	61.	226.
SUBTOTAL	22538.	353248.	37454.	760.	2828.

---TOTAL---	22944.	359687.	38152.	773.	2875.
(TONS)	25.27	396.13	42.02	0.85	3.17

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	193018.	3301.	58.48
OTH. PRINC. ART.(2)	32585.	14992.	2.17
MINOR ARTERIAL (6)	293384.	14317.	20.49
CENCON & INTRAS (9)	22137.	1107.	20.00
SUBTOTAL	541124.	33717.	16.05

-----URBAN-----

INTERSTATE (11)	10853381.	246010.	44.12
OTH.FWY & XWAY (12)	664269.	21213.	31.31
OTH. PRINC. ART.(14)	8113337.	328572.	24.69
MINOR ARTERIAL (16)	8586289.	294637.	29.14
CENCON & INTRAS (19)	2434930.	162341.	15.00
SUBTOTAL	30652236.	1052771.	29.12
TOTAL	31193356.	1086488.	28.71

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Hamilton County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 284. 5506. 603. 11. 42.
OTH. PRINC. ART.(2) 655. 11484. 1174. 25. 92.
MINOR ARTERIAL (6) 391. 6190. 639. 14. 52.
CENCON & INTRAS (9) 486. 5196. 548. 11. 42.
      SUBTOTAL 1817. 28376. 2963. 61. 227.
-----URBAN-----
INTERSTATE (11) 478. 8103. 882. 18. 65.
OTH.FWY & XWAY (12) 793. 11932. 1240. 26. 98.
OTH. PRINC. ART.(14) 972. 15650. 1631. 34. 128.
MINOR ARTERIAL (16) 1355. 20306. 2103. 45. 166.
CENCON & INTRAS (19) 772. 8252. 871. 18. 66.
      SUBTOTAL 4370. 64243. 6727. 141. 522.
---TOTAL---      6187. 92620. 9690. 201. 749.
(TONS)           6.81 102.00 10.67 0.22 0.83

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DAILY TRAVEL STATS

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Hamilton County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 448844. 8735. 51.38
OTH. PRINC. ART.(2) 991996. 22745. 43.61
MINOR ARTERIAL (6) 558921. 15767. 35.45
CENCON & INTRAS (9) 447855. 22393. 20.00
      SUBTOTAL 2447616. 69640. 35.15
-----URBAN-----
INTERSTATE (11) 705106. 17914. 39.36
OTH.FWY & XWAY (12) 1052127. 36182. 29.08
OTH. PRINC. ART.(14) 1378055. 39546. 34.85
MINOR ARTERIAL (16) 1789507. 62120. 28.81
CENCON & INTRAS (19) 711274. 46571. 15.27
      SUBTOTAL 5636067. 202334. 27.86
TOTAL          8083680. 271974. 29.72

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Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 176. 3826. 452. 7. 27.
OTH. PRINC. ART.(2) 830. 13874. 1437. 30. 111.
MINOR ARTERIAL (6) 210. 3388. 351. 7. 27.
CENCON & INTRAS (9) 373. 3984. 420. 9. 32.
SUBTOTAL 1589. 25074. 2661. 53. 197.
-----URBAN-----
INTERSTATE (11) 167. 3687. 446. 7. 26.
OTH.FWY & XWAY (12) 100. 1648. 169. 4. 14.
OTH. PRINC. ART.(14) 656. 10037. 1039. 22. 82.
MINOR ARTERIAL (16) 459. 7104. 735. 16. 58.
CENCON & INTRAS (19) 333. 3561. 376. 8. 28.
SUBTOTAL 1715. 26037. 2764. 56. 208.
---TOTAL--- 3304. 51111. 5425. 109. 405.
(TONS) 3.64 56.29 5.97 0.12 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 289686. 4750. 60.99
OTH. PRINC. ART.(2) 1200218. 32325. 37.13
MINOR ARTERIAL (6) 294570. 8653. 34.04
CENCON & INTRAS (9) 343405. 17170. 20.00
SUBTOTAL 2127878. 62898. 33.83
-----URBAN-----
INTERSTATE (11) 276187. 4463. 61.89
OTH.FWY & XWAY (12) 147033. 3723. 39.49
OTH. PRINC. ART.(14) 881844. 29288. 30.11
MINOR ARTERIAL (16) 630432. 19843. 31.77
CENCON & INTRAS (19) 306895. 20460. 15.00
SUBTOTAL 2242390. 77777. 28.83
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 517. 11256. 1330. 21. 79.
OTH. PRINC. ART.(2) 573. 9944. 1020. 21. 79.
MINOR ARTERIAL (6) 109. 1662. 173. 4. 14.
CENCON & INTRAS (9) 379. 4044. 427. 9. 32.
SUBTOTAL 1578. 26906. 2949. 55. 205.
-----URBAN-----
INTERSTATE (11) 358. 7201. 811. 14. 53.
OTH. PRINC. ART.(14) 612. 9934. 1018. 22. 81.
MINOR ARTERIAL (16) 361. 5881. 605. 13. 49.
CENCON & INTRAS (19) 229. 2447. 258. 5. 20.
SUBTOTAL 1561. 25463. 2692. 54. 202.
---TOTAL--- 3139. 52369. 5641. 109. 407.
(TONS) 3.46 57.68 6.21 0.12 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 852085. 13970. 60.99
OTH. PRINC. ART.(2) 855643. 20579. 41.58
MINOR ARTERIAL (6) 150040. 4730. 31.72
CENCON & INTRAS (9) 348564. 17428. 20.00
SUBTOTAL 2206333. 56707. 38.91
-----URBAN-----
INTERSTATE (11) 573062. 10646. 53.83
OTH. PRINC. ART.(14) 870376. 24237. 35.91
MINOR ARTERIAL (16) 526841. 13881. 37.95
CENCON & INTRAS (19) 210936. 14045. 15.02
SUBTOTAL 2181215. 62810. 34.73
TOTAL 4387548. 119517. 36.71

Hancock County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
OTH. PRINC. ART.(2) 332. 5804. 595. 12. 46.
MINOR ARTERIAL (6) 107. 1738. 178. 4. 14.
CENCON & INTRAS (9) 192. 2048. 216. 4. 16.
SUBTOTAL 631. 9590. 989. 21. 77.
-----URBAN-----
INTERSTATE (11) 576. 12333. 1437. 24. 88.
OTH. PRINC. ART.(14) 461. 7559. 777. 17. 62.
MINOR ARTERIAL (16) 380. 5744. 596. 13. 47.
CENCON & INTRAS (19) 210. 2240. 236. 5. 18.
SUBTOTAL 1628. 27876. 3046. 58. 215.
---TOTAL--- 2259. 37465. 4035. 78. 292.
(TONS) 2.49 41.26 4.44 0.09 0.32

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
OTH. PRINC. ART.(2) 500147. 11736. 42.62
MINOR ARTERIAL (6) 155903. 4117. 37.87
CENCON & INTRAS (9) 176516. 8826. 20.00
SUBTOTAL 832566. 24679. 33.74
-----URBAN-----
INTERSTATE (11) 944578. 15884. 59.47
OTH. PRINC. ART.(14) 666582. 17961. 37.11
MINOR ARTERIAL (16) 510259. 17125. 29.80
CENCON & INTRAS (19) 193064. 12871. 15.00
SUBTOTAL 2314482. 63841. 36.25
TOTAL 3147050. 88520. 35.55

Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 561. 12016. 1403. 23. 85.
OTH. PRINC. ART.(2) 348. 6130. 628. 13. 49.
MINOR ARTERIAL (6) 15. 263. 27. 1. 2.
CENCON & INTRAS (9) 168. 1799. 190. 4. 14.
SUBTOTAL 1092. 20208. 2247. 40. 150.
-----URBAN-----
INTERSTATE (11) 289. 6169. 716. 12. 44.
OTH. PRINC. ART.(14) 118. 1933. 199. 4. 16.
MINOR ARTERIAL (16) 38. 619. 64. 1. 5.
CENCON & INTRAS (19) 97. 1042. 110. 2. 8.
SUBTOTAL 541. 9763. 1088. 20. 73.
---TOTAL--- 1633. 29971. 3335. 60. 223.
(TONS) 1.80 33.01 3.67 0.07 0.25

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 919299. 15423. 59.61
OTH. PRINC. ART.(2) 524825. 12167. 43.13
MINOR ARTERIAL (6) 22834. 550. 41.52
CENCON & INTRAS (9) 155021. 7751. 20.00
SUBTOTAL 1621979. 35891. 45.19
-----URBAN-----
INTERSTATE (11) 473401. 7983. 59.30
OTH. PRINC. ART.(14) 168917. 4631. 36.47
MINOR ARTERIAL (16) 55589. 1452. 38.30
CENCON & INTRAS (19) 89841. 5895. 15.24
SUBTOTAL 787747. 19961. 39.46
TOTAL 2409726. 55852. 43.14

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 522. 11409. 1357. 21. 80.
OTH. PRINC. ART.(2) 734. 12337. 1269. 27. 100.
MINOR ARTERIAL (6) 138. 2066. 214. 5. 17.
CENCON & INTRAS (9) 284. 3039. 321. 7. 24.
      SUBTOTAL 1678. 28852. 3160. 59. 221.
-----URBAN-----
OTH. PRINC. ART.(14) 143. 2225. 230. 5. 18.
MINOR ARTERIAL (16) 54. 831. 86. 2. 7.
CENCON & INTRAS (19) 52. 554. 58. 1. 4.
      SUBTOTAL 249. 3610. 375. 8. 29.
---TOTAL---      1928. 32462. 3535. 67. 250.
(TONS)           2.12 35.75 3.89 0.07 0.28

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 860488. 14007. 61.43
OTH. PRINC. ART.(2) 1077623. 27630. 39.00
MINOR ARTERIAL (6) 181496. 6429. 28.23
CENCON & INTRAS (9) 261951. 13098. 20.00
      SUBTOTAL 2381558. 61163. 38.94
-----URBAN-----
OTH. PRINC. ART.(14) 194863. 6271. 31.08
MINOR ARTERIAL (16) 74702. 2376. 31.45
CENCON & INTRAS (19) 47712. 3181. 15.00
      SUBTOTAL 317276. 11827. 26.83
TOTAL          2698834. 72990. 36.98

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 229. 5002. 593. 9. 35.
OTH. PRINC. ART.(2) 934. 16501. 1717. 35. 129.
MINOR ARTERIAL (6) 88. 1435. 147. 3. 12.
CENCON & INTRAS (9) 341. 4023. 433. 8. 31.
SUBTOTAL 1592. 26961. 2891. 56. 207.
-----URBAN-----
OTH. PRINC. ART.(14) 179. 3419. 369. 7. 26.
MINOR ARTERIAL (16) 25. 416. 43. 1. 3.
CENCON & INTRAS (19) 32. 338. 36. 1. 3.
SUBTOTAL 236. 4173. 447. 9. 32.
---TOTAL--- 1828. 31135. 3338. 64. 239.
(TONS) 2.01 34.29 3.68 0.07 0.26

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 377866. 6171. 61.24
OTH. PRINC. ART.(2) 1388291. 33933. 40.91
MINOR ARTERIAL (6) 128947. 3369. 38.28
CENCON & INTRAS (9) 339214. 15018. 22.59
SUBTOTAL 2234318. 58491. 38.20
-----URBAN-----
OTH. PRINC. ART.(14) 279478. 5711. 48.94
MINOR ARTERIAL (16) 37107. 941. 39.41
CENCON & INTRAS (19) 29136. 1942. 15.00
SUBTOTAL 345721. 8595. 40.22
TOTAL 2580040. 67086. 38.46

 Madison County
 VOC EXHST EXHST TOTAL
 HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
 INTERSTATE (1) 575. 11444. 1274. 23. 85.
 OTH. PRINC. ART.(2) 671. 11908. 1218. 25. 94.
 MINOR ARTERIAL (6) 11. 185. 19. 0. 2.
 CENCON & INTRAS (9) 346. 3790. 399. 8. 30.
 SUBTOTAL 1603. 27327. 2910. 57. 211.
 -----URBAN-----
 INTERSTATE (11) 146. 2985. 334. 6. 22.
 OTH. PRINC. ART.(14) 643. 10579. 1087. 23. 87.
 CENCON & INTRAS (19) 295. 3153. 333. 7. 25.
 SUBTOTAL 1084. 16716. 1754. 36. 134.
 ---TOTAL--- 2687. 44043. 4665. 93. 345.
 (TONS) 2.96 48.51 5.14 0.10 0.38

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 HPMS TYPE VMT VHT SPEED

-----RURAL-----
 INTERSTATE (1) 918041. 17255. 53.20
 OTH. PRINC. ART.(2) 1019152. 23053. 44.21
 MINOR ARTERIAL (6) 16415. 412. 39.89
 CENCON & INTRAS (9) 326057. 15744. 20.71
 SUBTOTAL 2279666. 56463. 40.37
 -----URBAN-----
 INTERSTATE (11) 235915. 4237. 55.68
 OTH. PRINC. ART.(14) 935315. 24747. 37.80
 CENCON & INTRAS (19) 271743. 18116. 15.00
 SUBTOTAL 1442974. 47099. 30.64
 TOTAL 3722642. 103562. 35.95

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----

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INTERSTATE (1) 2982. 63021. 7315. 121. 450.
OTH. PRINC. ART.(2) 5080. 88020. 9061. 188. 701.
MINOR ARTERIAL (6) 1331. 20511. 2111. 45. 167.
CENCON & INTRAS (9) 2593. 28180. 2981. 61. 224.
      SUBTOTAL 11986. 199733. 21468. 415. 1543.

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-----URBAN-----

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INTERSTATE (11) 9090. 171963. 19060. 349. 1300.
OTH.FWY & XWAY (12) 1378. 21105. 2188. 46. 173.
OTH. PRINC. ART.(14) 9683. 151110. 15641. 333. 1241.
MINOR ARTERIAL (16) 9109. 137117. 14201. 304. 1131.
CENCON & INTRAS (19) 4663. 49835. 5257. 107. 398.
      SUBTOTAL 33923. 531130. 56348. 1141. 4243.

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---TOTAL---      45909. 730863. 77817. 1555. 5786.
(TONS)          50.56 804.92 85.70 1.71 6.37

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----

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INTERSTATE (1) 4859328. 83611. 58.12
OTH. PRINC. ART.(2) 7590475. 199160. 38.11
MINOR ARTERIAL (6) 1802510. 58343. 30.89
CENCON & INTRAS (9) 2420722. 118534. 20.42
      SUBTOTAL 16673038. 459649. 36.27

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-----URBAN-----

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INTERSTATE (11) 14061628. 307137. 45.78
OTH.FWY & XWAY (12) 1863429. 61118. 30.49
OTH. PRINC. ART.(14) 13488757. 480963. 28.05
MINOR ARTERIAL (16) 12210725. 412375. 29.61
CENCON & INTRAS (19) 4295532. 285423. 15.05
      SUBTOTAL 45920128. 1547017. 29.68

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TOTAL          62593156. 2006665. 31.19

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:57:23 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:10A

MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3
CBD	(1)	1112.	17479.	1842.	38.	142.
CDB FRINGE	(2)	10436.	164323.	17340.	358.	1332.
RESIDENTIAL	(3)	10974.	171079.	18229.	363.	1351.
RURAL	(5)	422.	6807.	740.	13.	50.
---TOTAL---		22944.	359687.	38152.	773.	2875.
(TONS)		25.27	396.13	42.02	0.85	3.17

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3
FREEWAY	(1)	6987.	130223.	14411.	267.	996.
EXPRESSWAY	(2)	486.	7525.	780.	17.	62.
2-WAY ART w/prk	(3)	6714.	99935.	10349.	221.	824.
ONE-WAY ARTERIAL	(4)	645.	9949.	1031.	22.	83.
CENTROID CONNECT	(5)	2667.	28491.	3006.	61.	228.
2-WAY ART wo/prk	(6)	5239.	79740.	8250.	177.	658.
FREEWAY RAMPS	(7)	205.	3824.	325.	7.	25.
---TOTAL---		22944.	359687.	38152.	773.	2875.
(TONS)		25.27	396.13	42.02	0.85	3.17

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED
CBD	(1)	1533429.	47716.	32.14
CDB FRINGE	(2)	14371063.	444076.	32.36
RESIDENTIAL	(3)	14720710.	560537.	26.26
RURAL	(5)	568114.	34161.	16.63
TOTAL		31193356.	1086488.	28.71

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED
FREEWAY	(1)	10776507.	236247.	45.62
EXPRESSWAY	(2)	664269.	21213.	31.31
2-WAY ART w/prk	(3)	8890855.	310497.	28.63
ONE-WAY ARTERIAL	(4)	899097.	27316.	32.91
CENTROID CONNECT	(5)	2455735.	163402.	15.03
2-WAY ART wo/prk	(6)	7236968.	314750.	22.99
FREEWAY RAMPS	(7)	269891.	13063.	20.66
TOTAL		31193356.	1086488.	28.71

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 221. 3795. 413. 8. 29.
RESIDENTIAL (3) 3819. 55155. 5754. 121. 451.
SUBURBAN CBD (4) 286. 4318. 447. 9. 35.
RURAL (5) 1862. 29352. 3077. 63. 234.
---TOTAL--- 6187. 92620. 9690. 201. 749.
(TONS) 6.81 102.00 10.67 0.22 0.83

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 807. 14584. 1599. 31. 114.
EXPRESSWAY (2) 1046. 16454. 1702. 36. 133.
2-WAY ART w/prk (3) 1575. 23621. 2448. 52. 194.
ONE-WAY ARTERIAL (4) 1. 10. 1. 0. 0.
CENTROID CONNECT (5) 1259. 13448. 1419. 29. 107.
2-WAY ART wo/prk (6) 1500. 24502. 2523. 54. 200.
---TOTAL--- 6187. 92620. 9690. 201. 749.
(TONS) 6.81 102.00 10.67 0.22 0.83

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 314124. 8814. 35.64
RESIDENTIAL (3) 4867144. 179603. 27.10
SUBURBAN CBD (4) 380319. 12675. 30.00
RURAL (5) 2522096. 70881. 35.58
TOTAL 8083680. 271974. 29.72

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1228430. 27891. 44.04
EXPRESSWAY (2) 1439170. 44768. 32.15
2-WAY ART w/prk (3) 2094048. 71532. 29.27
ONE-WAY ARTERIAL (4) 851. 19. 45.00
CENTROID CONNECT (5) 1159129. 68964. 16.81
2-WAY ART wo/prk (6) 2162058. 58800. 36.77
TOTAL 8083680. 271974. 29.72

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 152. 2327. 240. 5. 19.
RESIDENTIAL (3) 1398. 21281. 2273. 45. 169.
SUBURBAN CBD (4) 166. 2428. 252. 5. 20.
RURAL (5) 1589. 25074. 2661. 53. 197.
---TOTAL--- 3304. 51111. 5425. 109. 405.
(TONS) 3.64 56.29 5.97 0.12 0.45

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 343. 7513. 898. 14. 52.
EXPRESSWAY (2) 156. 2769. 287. 6. 22.
2-WAY ART w/prk (3) 669. 10492. 1086. 23. 86.
CENTROID CONNECT (5) 706. 7545. 796. 16. 60.
2-WAY ART wo/prk (6) 1430. 22791. 2357. 50. 185.
---TOTAL--- 3304. 51111. 5425. 109. 405.
(TONS) 3.64 56.29 5.97 0.12 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 208114. 6476. 32.14
RESIDENTIAL (3) 1817930. 63774. 28.51
SUBURBAN CBD (4) 216346. 7527. 28.74
RURAL (5) 2127878. 62898. 33.83
TOTAL 4370270. 140675. 31.07

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 565873. 9213. 61.42
EXPRESSWAY (2) 237145. 5408. 43.85
2-WAY ART w/prk (3) 925001. 28496. 32.46
CENTROID CONNECT (5) 650300. 37630. 17.28
2-WAY ART wo/prk (6) 1991950. 59928. 33.24
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1561. 25463. 2692. 54. 202.
RURAL (5) 1578. 26906. 2949. 55. 205.
---TOTAL--- 3139. 52369. 5641. 109. 407.
(TONS) 3.46 57.68 6.21 0.12 0.45

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 876. 18457. 2141. 35. 132.
2-WAY ART w/prk (3) 424. 6751. 696. 15. 56.
CENTROID CONNECT (5) 607. 6487. 684. 14. 52.
2-WAY ART wo/prk (6) 1232. 20675. 2119. 45. 166.
---TOTAL--- 3139. 52369. 5641. 109. 407.
(TONS) 3.46 57.68 6.21 0.12 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2181215. 62810. 34.73
RURAL (5) 2206333. 56707. 38.91
TOTAL 4387548. 119517. 36.71

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1425147. 24616. 57.89
2-WAY ART w/prk (3) 607634. 16968. 35.81
CENTROID CONNECT (5) 559108. 31464. 17.77
2-WAY ART wo/prk (6) 1795659. 46469. 38.64
TOTAL 4387548. 119517. 36.71

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Hancock County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 1602. 27461. 3003.  57. 211.
SUBURBAN CBD (4)  26.  415.  43.   1.   3.
RURAL (5) 631. 9590. 989.  21.  77.
---TOTAL---      2259. 37465. 4035.  78. 292.
(TONS)          2.49 41.26 4.44 0.09 0.32
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Hancock County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 576. 12333. 1437.  24.  88.
2-WAY ART w/prk (3) 487. 7482. 774.  17.  62.
CENTROID CONNECT (5) 401. 4288. 452.   9.  34.
2-WAY ART wo/prk (6) 794. 13363. 1371.  29. 108.
---TOTAL---      2259. 37465. 4035.  78. 292.
(TONS)          2.49 41.26 4.44 0.09 0.32
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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 2278500.  62824. 36.27
SUBURBAN CBD (4)  35983.  1017. 35.37
RURAL (5) 832566.  24679. 33.74
TOTAL      3147050.  88520. 35.55
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Hancock County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 944578.  15884. 59.47
2-WAY ART w/prk (3) 666162.  21242. 31.36
CENTROID CONNECT (5) 369580.  21697. 17.03
2-WAY ART wo/prk (6) 1166728.  29697. 39.29
TOTAL      3147050.  88520. 35.55
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Shelby County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 534. 9647. 1076. 19. 72.
SUBURBAN CBD (4) 7. 116. 12. 0. 1.
RURAL (5) 1092. 20208. 2247. 40. 150.
---TOTAL--- 1633. 29971. 3335. 60. 223.
(TONS) 1.80 33.01 3.67 0.07 0.25

Shelby County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 850. 18186. 2118. 35. 129.
2-WAY ART w/prk (3) 57. 955. 99. 2. 8.
CENTROID CONNECT (5) 264. 2815. 297. 6. 22.
2-WAY ART wo/prk (6) 463. 8016. 821. 17. 64.
---TOTAL--- 1633. 29971. 3335. 60. 223.
(TONS) 1.80 33.01 3.67 0.07 0.25

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 777533. 19683. 39.50
SUBURBAN CBD (4) 10214. 278. 36.72
RURAL (5) 1621979. 35891. 45.19
TOTAL 2409726. 55852. 43.14

Shelby County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1392700. 23406. 59.50
2-WAY ART w/prk (3) 84330. 2119. 39.79
CENTROID CONNECT (5) 242639. 13592. 17.85
2-WAY ART wo/prk (6) 690057. 16735. 41.23
TOTAL 2409726. 55852. 43.14

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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 244. 3521. 366. 8. 29.
SUBURBAN CBD (4) 5. 89. 9. 0. 1.
RURAL (5) 1678. 28852. 3160. 59. 221.
---TOTAL--- 1928. 32462. 3535. 67. 250.
(TONS) 2.12 35.75 3.89 0.07 0.28
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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 522. 11409. 1357. 21. 80.
2-WAY ART w/prk (3) 192. 2898. 301. 6. 24.
CENTROID CONNECT (5) 336. 3593. 379. 8. 29.
2-WAY ART wo/prk (6) 877. 14562. 1499. 32. 118.
---TOTAL--- 1928. 32462. 3535. 67. 250.
(TONS) 2.12 35.75 3.89 0.07 0.28
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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 309713. 11629. 26.63
SUBURBAN CBD (4) 7563. 198. 38.13
RURAL (5) 2381558. 61163. 38.94
TOTAL 2698834. 72990. 36.98
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 860488. 14007. 61.43
2-WAY ART w/prk (3) 256198. 8804. 29.10
CENTROID CONNECT (5) 309663. 16278. 19.02
2-WAY ART wo/prk (6) 1272486. 33900. 37.54
TOTAL 2698834. 72990. 36.98
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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 212. 3665. 387. 8. 28.
SUBURBAN CBD (4) 1. 20. 2. 0. 0.
RURAL (5) 1615. 27449. 2949. 57. 211.
---TOTAL--- 1828. 31135. 3338. 64. 239.
(TONS) 2.01 34.29 3.68 0.07 0.26

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 287. 6255. 741. 12. 44.
EXPRESSWAY (2) 94. 1966. 216. 4. 14.
2-WAY ART w/prk (3) 113. 1851. 190. 4. 15.
CENTROID CONNECT (5) 337. 3596. 379. 8. 29.
2-WAY ART wo/prk (6) 997. 17466. 1811. 37. 137.
---TOTAL--- 1828. 31135. 3338. 64. 239.
(TONS) 2.01 34.29 3.68 0.07 0.26

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 307322. 7958. 38.62
SUBURBAN CBD (4) 1769. 47. 37.93
RURAL (5) 2270950. 59081. 38.44
TOTAL 2580040. 67086. 38.46

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 472861. 7737. 61.12
EXPRESSWAY (2) 152799. 2645. 57.76
2-WAY ART w/prk (3) 166054. 4310. 38.52
CENTROID CONNECT (5) 309986. 15985. 19.39
2-WAY ART wo/prk (6) 1478340. 36409. 40.60
TOTAL 2580040. 67086. 38.46

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1043. 16025. 1683. 34. 128.
 SUBURBAN CBD (4) 42. 691. 71. 2. 6.
 RURAL (5) 1603. 27327. 2910. 57. 211.
 ---TOTAL--- 2687. 44043. 4665. 93. 345.
 (TONS) 2.96 48.51 5.14 0.10 0.38

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 721. 14429. 1608. 29. 107.
 2-WAY ART w/prk (3) 11. 185. 19. 0. 2.
 CENTROID CONNECT (5) 629. 6715. 708. 14. 54.
 2-WAY ART wo/prk (6) 1326. 22715. 2329. 49. 183.
 ---TOTAL--- 2687. 44043. 4665. 93. 345.
 (TONS) 2.96 48.51 5.14 0.10 0.38

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1382376. 45538. 30.36
 SUBURBAN CBD (4) 60597. 1562. 38.80
 RURAL (5) 2279666. 56463. 40.37
 TOTAL 3722642. 103562. 35.95

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1153956. 21492. 53.69
 2-WAY ART w/prk (3) 16415. 412. 39.89
 CENTROID CONNECT (5) 578797. 33469. 17.29
 2-WAY ART wo/prk (6) 1973472. 48190. 40.95
 TOTAL 3722642. 103562. 35.95

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1112. 17479. 1842. 38. 142.
CDB FRINGE (2) 10809. 170445. 17993. 371. 1380.
RESIDENTIAL (3) 21386. 333297. 35463. 710. 2642.
SUBURBAN CBD (4) 532. 8077. 835. 18. 66.
RURAL (5) 12070. 201564. 21683. 418. 1556.
---TOTAL--- 45909. 730863. 77817. 1555. 5786.
(TONS) 50.56 804.92 85.70 1.71 6.37

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 11969. 233388. 26311. 468. 1741.
EXPRESSWAY (2) 1782. 28714. 2985. 62. 231.
2-WAY ART w/prk (3) 10243. 154169. 15961. 341. 1270.
ONE-WAY ARTERIAL (4) 646. 9959. 1032. 22. 83.
CENTROID CONNECT (5) 7206. 76979. 8121. 166. 615.
2-WAY ART wo/prk (6) 13858. 223829. 23081. 489. 1820.
FREEWAY RAMPS (7) 205. 3824. 325. 7. 25.
---TOTAL--- 45909. 730863. 77817. 1555. 5786.
(TONS) 50.56 804.92 85.70 1.71 6.37

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1533429. 47716. 32.14
CDB FRINGE (2) 14893302. 459366. 32.42
RESIDENTIAL (3) 28642444. 1014355. 28.24
SUBURBAN CBD (4) 712791. 23305. 30.59
RURAL (5) 16811138. 461924. 36.39
TOTAL 62593156. 2006665. 31.19

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18820544. 380491. 49.46
EXPRESSWAY (2) 2493383. 74035. 33.68
2-WAY ART w/prk (3) 13706679. 464380. 29.52
ONE-WAY ARTERIAL (4) 899948. 27335. 32.92
CENTROID CONNECT (5) 6634934. 402481. 16.49
2-WAY ART wo/prk (6) 19767702. 644879. 30.65
FREEWAY RAMPS (7) 269891. 13063. 20.66
TOTAL 62593156. 2006665. 31.19

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:56:56 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	3.3270	39.5330	2.5000	0.0260	0.0927
Freeway	5	1.8620	29.2000	2.3150	0.0260	0.0927
Freeway	10	1.0970	20.5290	1.8090	0.0260	0.0927
Freeway	15	0.8650	17.8330	1.5410	0.0260	0.0927
Freeway	20	0.7840	17.1620	1.4910	0.0260	0.0927
Freeway	25	0.7330	16.7530	1.4610	0.0260	0.0927
Freeway	30	0.6990	16.4840	1.4480	0.0260	0.0927
Freeway	35	0.6680	16.5110	1.4470	0.0259	0.0927
Freeway	40	0.6500	17.0070	1.4740	0.0259	0.0927
Freeway	45	0.6370	17.5260	1.5220	0.0259	0.0927
Freeway	50	0.6230	18.0670	1.5920	0.0259	0.0927
Freeway	55	0.6110	18.6290	1.6920	0.0259	0.0927
Freeway	60	0.6020	19.2530	1.8310	0.0259	0.0927
Freeway	65	0.5950	19.9130	2.0230	0.0259	0.0927
Arterial	3	3.3280	39.5330	2.4400	0.0260	0.0927
Arterial	5	1.8620	29.2000	2.2560	0.0260	0.0927
Arterial	10	1.1500	21.4380	1.8900	0.0260	0.0927
Arterial	15	0.9290	18.8950	1.6560	0.0260	0.0927
Arterial	20	0.8130	17.5790	1.5240	0.0260	0.0927
Arterial	25	0.7420	16.8520	1.4450	0.0260	0.0927
Arterial	30	0.7010	16.5020	1.3990	0.0260	0.0927
Arterial	35	0.6680	16.5110	1.3880	0.0259	0.0927
Arterial	40	0.6500	17.0070	1.4140	0.0259	0.0927
Arterial	45	0.6370	17.5260	1.4620	0.0259	0.0927
Arterial	50	0.6230	18.0670	1.5330	0.0259	0.0927
Arterial	55	0.6110	18.6290	1.6320	0.0259	0.0927
Arterial	60	0.6020	19.2530	1.7710	0.0259	0.0927
Arterial	65	0.5950	19.9130	1.9640	0.0259	0.0927
Local	1	0.9510	17.2960	1.4910	0.0260	0.0927
Ramps	1	0.7370	20.6530	1.4970	0.0259	0.0927

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:56:56 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:10A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	116.	3755.	363.	5.	18.
OTH. PRINC. ART.(2)	2.	56.	5.	0.	0.
MINOR ARTERIAL (6)	239.	5325.	447.	8.	27.
CENCON & INTRAS (9)	21.	383.	33.	1.	2.
SUBTOTAL	379.	9519.	848.	13.	47.

-----URBAN-----

INTERSTATE (11)	6882.	195884.	17512.	280.	1003.
OTH.FWY & XWAY (12)	462.	11351.	960.	17.	62.
OTH. PRINC. ART.(14)	5589.	135693.	11441.	208.	742.
MINOR ARTERIAL (16)	6078.	145404.	12277.	223.	795.
CENCON & INTRAS (19)	2315.	42114.	3630.	63.	226.
SUBTOTAL	21326.	530445.	45820.	791.	2828.

---TOTAL---	21704.	539964.	46667.	804.	2875.
(TONS)	23.90	594.67	51.40	0.89	3.17

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	193018.	3301.	58.48
OTH. PRINC. ART.(2)	32585.	14992.	2.17
MINOR ARTERIAL (6)	293384.	14317.	20.49
CENCON & INTRAS (9)	22137.	1107.	20.00
SUBTOTAL	541124.	33717.	16.05

-----URBAN-----

INTERSTATE (11)	10853381.	246010.	44.12
OTH.FWY & XWAY (12)	664269.	21213.	31.31
OTH. PRINC. ART.(14)	8113337.	328572.	24.69
MINOR ARTERIAL (16)	8586289.	294637.	29.14
CENCON & INTRAS (19)	2434930.	162341.	15.00
SUBTOTAL	30652236.	1052771.	29.12
TOTAL	31193356.	1086488.	28.71

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 278. 8191. 731. 12. 42.
OTH. PRINC. ART.(2) 635. 17267. 1441. 26. 92.
MINOR ARTERIAL (6) 374. 9382. 786. 14. 52.
CENCON & INTRAS (9) 426. 7746. 668. 12. 42.
SUBTOTAL 1713. 42587. 3626. 63. 227.

-----URBAN-----

INTERSTATE (11) 461. 12196. 1076. 18. 65.
OTH.FWY & XWAY (12) 749. 17990. 1525. 27. 98.
OTH. PRINC. ART.(14) 929. 23603. 2004. 36. 128.
MINOR ARTERIAL (16) 1278. 30614. 2589. 46. 166.
CENCON & INTRAS (19) 676. 12302. 1061. 18. 66.
SUBTOTAL 4094. 96705. 8255. 146. 522.

---TOTAL--- 5807. 139292. 11881. 210. 749.
(TONS) 6.40 153.41 13.08 0.23 0.83

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 448844. 8735. 51.38
OTH. PRINC. ART.(2) 991996. 22745. 43.61
MINOR ARTERIAL (6) 558921. 15767. 35.45
CENCON & INTRAS (9) 447855. 22393. 20.00
SUBTOTAL 2447616. 69640. 35.15

-----URBAN-----

INTERSTATE (11) 705106. 17914. 39.36
OTH.FWY & XWAY (12) 1052127. 36182. 29.08
OTH. PRINC. ART.(14) 1378055. 39546. 34.85
MINOR ARTERIAL (16) 1789507. 62120. 28.81
CENCON & INTRAS (19) 711274. 46571. 15.27
SUBTOTAL 5636067. 202334. 27.86
TOTAL 8083680. 271974. 29.72

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 174. 5615. 541. 8. 27.
OTH. PRINC. ART.(2) 798. 20858. 1764. 31. 111.
MINOR ARTERIAL (6) 200. 5097. 431. 8. 27.
CENCON & INTRAS (9) 327. 5940. 512. 9. 32.
SUBTOTAL 1499. 37510. 3248. 55. 197.
-----URBAN-----
INTERSTATE (11) 166. 5400. 533. 7. 26.
OTH.FWY & XWAY (12) 96. 2493. 208. 4. 14.
OTH. PRINC. ART.(14) 621. 15125. 1278. 23. 82.
MINOR ARTERIAL (16) 436. 10728. 905. 16. 58.
CENCON & INTRAS (19) 292. 5308. 458. 8. 28.
SUBTOTAL 1611. 39054. 3380. 58. 208.
---TOTAL--- 3110. 76564. 6629. 113. 405.
(TONS) 3.42 84.32 7.30 0.12 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 289686. 4750. 60.99
OTH. PRINC. ART.(2) 1200218. 32325. 37.13
MINOR ARTERIAL (6) 294570. 8653. 34.04
CENCON & INTRAS (9) 343405. 17170. 20.00
SUBTOTAL 2127878. 62898. 33.83
-----URBAN-----
INTERSTATE (11) 276187. 4463. 61.89
OTH.FWY & XWAY (12) 147033. 3723. 39.49
OTH. PRINC. ART.(14) 881844. 29288. 30.11
MINOR ARTERIAL (16) 630432. 19843. 31.77
CENCON & INTRAS (19) 306895. 20460. 15.00
SUBTOTAL 2242390. 77777. 28.83
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 512. 16517. 1593. 22. 79.
OTH. PRINC. ART.(2) 554. 14938. 1252. 22. 79.
MINOR ARTERIAL (6) 104. 2518. 213. 4. 14.
CENCON & INTRAS (9) 331. 6029. 520. 9. 32.
SUBTOTAL 1501. 40003. 3577. 57. 205.
-----URBAN-----
INTERSTATE (11) 352. 10663. 980. 15. 53.
OTH. PRINC. ART.(14) 585. 14971. 1251. 23. 81.
MINOR ARTERIAL (16) 347. 8902. 744. 14. 49.
CENCON & INTRAS (19) 200. 3648. 314. 5. 20.
SUBTOTAL 1484. 38184. 3289. 57. 202.
---TOTAL--- 2985. 78187. 6866. 114. 407.
(TONS) 3.29 86.11 7.56 0.13 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 852085. 13970. 60.99
OTH. PRINC. ART.(2) 855643. 20579. 41.58
MINOR ARTERIAL (6) 150040. 4730. 31.72
CENCON & INTRAS (9) 348564. 17428. 20.00
SUBTOTAL 2206333. 56707. 38.91
-----URBAN-----
INTERSTATE (11) 573062. 10646. 53.83
OTH. PRINC. ART.(14) 870376. 24237. 35.91
MINOR ARTERIAL (16) 526841. 13881. 37.95
CENCON & INTRAS (19) 210936. 14045. 15.02
SUBTOTAL 2181215. 62810. 34.73
TOTAL 4387548. 119517. 36.71

Hancock County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
OTH. PRINC. ART.(2) 322. 8722. 730. 13. 46.
MINOR ARTERIAL (6) 103. 2631. 220. 4. 14.
CENCON & INTRAS (9) 168. 3053. 263. 5. 16.
SUBTOTAL 593. 14406. 1213. 22. 77.
-----URBAN-----
INTERSTATE (11) 570. 18136. 1724. 24. 88.
OTH. PRINC. ART.(14) 443. 11406. 955. 17. 62.
MINOR ARTERIAL (16) 360. 8674. 733. 13. 47.
CENCON & INTRAS (19) 184. 3339. 288. 5. 18.
SUBTOTAL 1556. 41556. 3701. 60. 215.
---TOTAL--- 2148. 55962. 4914. 82. 292.
(TONS) 2.37 61.63 5.41 0.09 0.32

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
OTH. PRINC. ART.(2) 500147. 11736. 42.62
MINOR ARTERIAL (6) 155903. 4117. 37.87
CENCON & INTRAS (9) 176516. 8826. 20.00
SUBTOTAL 832566. 24679. 33.74
-----URBAN-----
INTERSTATE (11) 944578. 15884. 59.47
OTH. PRINC. ART.(14) 666582. 17961. 37.11
MINOR ARTERIAL (16) 510259. 17125. 29.80
CENCON & INTRAS (19) 193064. 12871. 15.00
SUBTOTAL 2314482. 63841. 36.25
TOTAL 3147050. 88520. 35.55

Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 554. 17667. 1683. 24. 85.
OTH. PRINC. ART.(2) 337. 9201. 770. 14. 49.
MINOR ARTERIAL (6) 15. 396. 34. 1. 2.
CENCON & INTRAS (9) 147. 2681. 231. 4. 14.
SUBTOTAL 1054. 29945. 2718. 42. 150.
-----URBAN-----
INTERSTATE (11) 286. 9076. 860. 12. 44.
OTH. PRINC. ART.(14) 113. 2912. 244. 4. 16.
MINOR ARTERIAL (16) 36. 937. 78. 1. 5.
CENCON & INTRAS (19) 85. 1553. 134. 2. 8.
SUBTOTAL 520. 14478. 1316. 20. 73.
---TOTAL--- 1573. 44423. 4033. 62. 223.
(TONS) 1.73 48.92 4.44 0.07 0.25

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 919299. 15423. 59.61
OTH. PRINC. ART.(2) 524825. 12167. 43.13
MINOR ARTERIAL (6) 22834. 550. 41.52
CENCON & INTRAS (9) 155021. 7751. 20.00
SUBTOTAL 1621979. 35891. 45.19
-----URBAN-----
INTERSTATE (11) 473401. 7983. 59.30
OTH. PRINC. ART.(14) 168917. 4631. 36.47
MINOR ARTERIAL (16) 55589. 1452. 38.30
CENCON & INTRAS (19) 89841. 5895. 15.24
SUBTOTAL 787747. 19961. 39.46
TOTAL 2409726. 55852. 43.14

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 516. 16730. 1623. 22. 80.
OTH. PRINC. ART.(2) 707. 18584. 1559. 28. 100.
MINOR ARTERIAL (6) 130. 3113. 264. 5. 17.
CENCON & INTRAS (9) 249. 4531. 391. 7. 24.
      SUBTOTAL 1603. 42958. 3836. 62. 221.
-----URBAN-----
OTH. PRINC. ART.(14) 136. 3351. 283. 5. 18.
MINOR ARTERIAL (16) 52. 1259. 106. 2. 7.
CENCON & INTRAS (19) 45. 825. 71. 1. 4.
      SUBTOTAL 233. 5435. 461. 8. 29.
---TOTAL---      1836. 48393. 4297. 70. 250.
(TONS)           2.02 53.30 4.73 0.08 0.28

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DAILY TRAVEL STATS

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Boone County
      DAILY      DAILY AVERAGE
HPMS TYPE      VMT      VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 860488. 14007. 61.43
OTH. PRINC. ART.(2) 1077623. 27630. 39.00
MINOR ARTERIAL (6) 181496. 6429. 28.23
CENCON & INTRAS (9) 261951. 13098. 20.00
      SUBTOTAL 2381558. 61163. 38.94
-----URBAN-----
OTH. PRINC. ART.(14) 194863. 6271. 31.08
MINOR ARTERIAL (16) 74702. 2376. 31.45
CENCON & INTRAS (19) 47712. 3181. 15.00
      SUBTOTAL 317276. 11827. 26.83
TOTAL          2698834. 72990. 36.98

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 227. 7337. 710. 10. 35.
OTH. PRINC. ART.(2) 904. 24681. 2101. 36. 129.
MINOR ARTERIAL (6) 85. 2173. 181. 3. 12.
CENCON & INTRAS (9) 302. 5981. 526. 9. 31.
SUBTOTAL 1517. 40173. 3518. 58. 207.
-----URBAN-----
OTH. PRINC. ART.(14) 175. 5087. 448. 7. 26.
MINOR ARTERIAL (16) 24. 630. 53. 1. 3.
CENCON & INTRAS (19) 28. 504. 43. 1. 3.
SUBTOTAL 227. 6221. 544. 9. 32.
---TOTAL--- 1744. 46393. 4063. 67. 239.
(TONS) 1.92 51.09 4.47 0.07 0.26

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 377866. 6171. 61.24
OTH. PRINC. ART.(2) 1388291. 33933. 40.91
MINOR ARTERIAL (6) 128947. 3369. 38.28
CENCON & INTRAS (9) 339214. 15018. 22.59
SUBTOTAL 2234318. 58491. 38.20
-----URBAN-----
OTH. PRINC. ART.(14) 279478. 5711. 48.94
MINOR ARTERIAL (16) 37107. 941. 39.41
CENCON & INTRAS (19) 29136. 1942. 15.00
SUBTOTAL 345721. 8595. 40.22
TOTAL 2580040. 67086. 38.46

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Madison County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 565. 16973. 1541. 24. 85.
OTH. PRINC. ART.(2) 651. 17873. 1495. 26. 94.
MINOR ARTERIAL (6) 11. 279. 23. 0. 2.
CENCON & INTRAS (9) 304. 5651. 487. 8. 30.
      SUBTOTAL 1531. 40776. 3545. 59. 211.
-----URBAN-----
INTERSTATE (11) 144. 4415. 404. 6. 22.
OTH. PRINC. ART.(14) 618. 15972. 1337. 24. 87.
CENCON & INTRAS (19) 258. 4700. 405. 7. 25.
      SUBTOTAL 1020. 25087. 2146. 37. 134.
---TOTAL---      2551. 65863. 5691. 96. 345.
(TONS)           2.81 72.54 6.27 0.11 0.38

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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 918041. 17255. 53.20
OTH. PRINC. ART.(2) 1019152. 23053. 44.21
MINOR ARTERIAL (6) 16415. 412. 39.89
CENCON & INTRAS (9) 326057. 15744. 20.71
      SUBTOTAL 2279666. 56463. 40.37
-----URBAN-----
INTERSTATE (11) 235915. 4237. 55.68
OTH. PRINC. ART.(14) 935315. 24747. 37.80
CENCON & INTRAS (19) 271743. 18116. 15.00
      SUBTOTAL 1442974. 47099. 30.64
TOTAL        3722642. 103562. 35.95

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Total Model Area
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 2942. 92786. 8784. 126. 450.
OTH. PRINC. ART.(2) 4911. 132180. 11117. 196. 701.
MINOR ARTERIAL (6) 1260. 30916. 2598. 47. 167.
CENCON & INTRAS (9) 2276. 41995. 3630. 63. 224.
SUBTOTAL 11390. 297877. 26129. 431. 1543.

-----URBAN-----

INTERSTATE (11) 8860. 255770. 23088. 363. 1300.
OTH.FWY & XWAY (12) 1307. 31835. 2693. 48. 173.
OTH. PRINC. ART.(14) 9208. 228119. 19242. 347. 1241.
MINOR ARTERIAL (16) 8611. 207148. 17485. 317. 1131.
CENCON & INTRAS (19) 4084. 74294. 6404. 112. 398.
SUBTOTAL 32070. 797164. 68912. 1187. 4243.

---TOTAL--- 43459. 1095041. 95041. 1619. 5786.
(TONS) 47.86 1205.99 104.67 1.78 6.37

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 4859328. 83611. 58.12
OTH. PRINC. ART.(2) 7590475. 199160. 38.11
MINOR ARTERIAL (6) 1802510. 58343. 30.89
CENCON & INTRAS (9) 2420722. 118534. 20.42
SUBTOTAL 16673038. 459649. 36.27

-----URBAN-----

INTERSTATE (11) 14061628. 307137. 45.78
OTH.FWY & XWAY (12) 1863429. 61118. 30.49
OTH. PRINC. ART.(14) 13488757. 480963. 28.05
MINOR ARTERIAL (16) 12210725. 412375. 29.61
CENCON & INTRAS (19) 4295532. 285423. 15.05
SUBTOTAL 45920128. 1547017. 29.68

TOTAL 62593156. 2006665. 31.19

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:56:57 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:10A

MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

CBD	(1)	1058.	26340.	2259.	40.	142.
CDB FRINGE	(2)	9907.	247391.	21243.	373.	1332.
RESIDENTIAL	(3)	10343.	256178.	22267.	378.	1351.
RURAL	(5)	395.	10056.	899.	14.	50.
---TOTAL---		21704.	539964.	46667.	804.	2875.
(TONS)		23.90	594.67	51.40	0.89	3.17

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

FREEWAY	(1)	6800.	194065.	17471.	278.	996.
EXPRESSWAY	(2)	462.	11351.	960.	17.	62.
2-WAY ART w/prk	(3)	6332.	150929.	12743.	231.	824.
ONE-WAY ARTERIAL	(4)	614.	15079.	1270.	23.	83.
CENTROID CONNECT	(5)	2335.	42474.	3661.	64.	228.
2-WAY ART wo/prk	(6)	4962.	120491.	10158.	184.	658.
FREEWAY RAMPS	(7)	199.	5574.	404.	7.	25.
---TOTAL---		21704.	539964.	46667.	804.	2875.
(TONS)		23.90	594.67	51.40	0.89	3.17

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED

CBD	(1)	1533429.	47716.	32.14
CDB FRINGE	(2)	14371063.	444076.	32.36
RESIDENTIAL	(3)	14720710.	560537.	26.26
RURAL	(5)	568114.	34161.	16.63
TOTAL		31193356.	1086488.	28.71

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE
		VMT	VHT	SPEED

FREEWAY	(1)	10776507.	236247.	45.62
EXPRESSWAY	(2)	664269.	21213.	31.31
2-WAY ART w/prk	(3)	8890855.	310497.	28.63
ONE-WAY ARTERIAL	(4)	899097.	27316.	32.91
CENTROID CONNECT	(5)	2455735.	163402.	15.03
2-WAY ART wo/prk	(6)	7236968.	314750.	22.99
FREEWAY RAMPS	(7)	269891.	13063.	20.66
TOTAL		31193356.	1086488.	28.71

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 212. 5656. 502. 8. 29.
RESIDENTIAL (3) 3568. 83109. 7067. 126. 451.
SUBURBAN CBD (4) 269. 6507. 549. 10. 35.
RURAL (5) 1758. 44021. 3763. 65. 234.
---TOTAL--- 5807. 139292. 11881. 210. 749.
(TONS) 6.40 153.41 13.08 0.23 0.83

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 784. 21821. 1944. 32. 114.
EXPRESSWAY (2) 996. 24779. 2093. 37. 133.
2-WAY ART w/prk (3) 1487. 35654. 3013. 54. 194.
ONE-WAY ARTERIAL (4) 1. 15. 1. 0. 0.
CENTROID CONNECT (5) 1102. 20048. 1728. 30. 107.
2-WAY ART wo/prk (6) 1438. 36975. 3102. 56. 200.
---TOTAL--- 5807. 139292. 11881. 210. 749.
(TONS) 6.40 153.41 13.08 0.23 0.83

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 314124. 8814. 35.64
RESIDENTIAL (3) 4867144. 179603. 27.10
SUBURBAN CBD (4) 380319. 12675. 30.00
RURAL (5) 2522096. 70881. 35.58
TOTAL 8083680. 271974. 29.72

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1228430. 27891. 44.04
EXPRESSWAY (2) 1439170. 44768. 32.15
2-WAY ART w/prk (3) 2094048. 71532. 29.27
ONE-WAY ARTERIAL (4) 851. 19. 45.00
CENTROID CONNECT (5) 1159129. 68964. 16.81
2-WAY ART wo/prk (6) 2162058. 58800. 36.77
TOTAL 8083680. 271974. 29.72

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 144. 3519. 295. 5. 19.
RESIDENTIAL (3) 1312. 31869. 2776. 47. 169.
SUBURBAN CBD (4) 155. 3666. 309. 6. 20.
RURAL (5) 1499. 37510. 3248. 55. 197.
---TOTAL--- 3110. 76564. 6629. 113. 405.
(TONS) 3.42 84.32 7.30 0.12 0.45

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 340. 11015. 1074. 15. 52.
EXPRESSWAY (2) 151. 4157. 352. 6. 22.
2-WAY ART w/prk (3) 637. 15825. 1336. 24. 86.
CENTROID CONNECT (5) 618. 11248. 970. 17. 60.
2-WAY ART wo/prk (6) 1364. 34320. 2897. 52. 185.
---TOTAL--- 3110. 76564. 6629. 113. 405.
(TONS) 3.42 84.32 7.30 0.12 0.45

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 208114. 6476. 32.14
RESIDENTIAL (3) 1817930. 63774. 28.51
SUBURBAN CBD (4) 216346. 7527. 28.74
RURAL (5) 2127878. 62898. 33.83
TOTAL 4370270. 140675. 31.07

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 565873. 9213. 61.42
EXPRESSWAY (2) 237145. 5408. 43.85
2-WAY ART w/prk (3) 925001. 28496. 32.46
CENTROID CONNECT (5) 650300. 37630. 17.28
2-WAY ART wo/prk (6) 1991950. 59928. 33.24
TOTAL 4370270. 140675. 31.07

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1484. 38184. 3289. 57. 202.
RURAL (5) 1501. 40003. 3577. 57. 205.
---TOTAL--- 2985. 78187. 6866. 114. 407.
(TONS) 3.29 86.11 7.56 0.13 0.45

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 864. 27180. 2572. 37. 132.
2-WAY ART w/prk (3) 406. 10227. 857. 16. 56.
CENTROID CONNECT (5) 532. 9670. 834. 15. 52.
2-WAY ART wo/prk (6) 1184. 31110. 2604. 47. 166.
---TOTAL--- 2985. 78187. 6866. 114. 407.
(TONS) 3.29 86.11 7.56 0.13 0.45

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2181215. 62810. 34.73
RURAL (5) 2206333. 56707. 38.91
TOTAL 4387548. 119517. 36.71

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1425147. 24616. 57.89
2-WAY ART w/prk (3) 607634. 16968. 35.81
CENTROID CONNECT (5) 559108. 31464. 17.77
2-WAY ART wo/prk (6) 1795659. 46469. 38.64
TOTAL 4387548. 119517. 36.71

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 1532. 40932. 3649. 59. 211.
SUBURBAN CBD (4) 24. 624. 52. 1. 3.
RURAL (5) 593. 14406. 1213. 22. 77.
---TOTAL--- 2148. 55962. 4914. 82. 292.
(TONS) 2.37 61.63 5.41 0.09 0.32

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 570. 18136. 1724. 24. 88.
2-WAY ART w/prk (3) 463. 11305. 953. 17. 62.
CENTROID CONNECT (5) 351. 6392. 551. 10. 34.
2-WAY ART wo/prk (6) 765. 20128. 1685. 30. 108.
---TOTAL--- 2148. 55962. 4914. 82. 292.
(TONS) 2.37 61.63 5.41 0.09 0.32

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2278500. 62824. 36.27
SUBURBAN CBD (4) 35983. 1017. 35.37
RURAL (5) 832566. 24679. 33.74
TOTAL 3147050. 88520. 35.55

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 944578. 15884. 59.47
2-WAY ART w/prk (3) 666162. 21242. 31.36
CENTROID CONNECT (5) 369580. 21697. 17.03
2-WAY ART wo/prk (6) 1166728. 29697. 39.29
TOTAL 3147050. 88520. 35.55

Shelby County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 513. 14303. 1301. 20. 72.
SUBURBAN CBD (4) 7. 175. 15. 0. 1.
RURAL (5) 1054. 29945. 2718. 42. 150.
---TOTAL--- 1573. 44423. 4033. 62. 223.
(TONS) 1.73 48.92 4.44 0.07 0.25

Shelby County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 840. 26743. 2542. 36. 129.
2-WAY ART w/prk (3) 55. 1441. 121. 2. 8.
CENTROID CONNECT (5) 231. 4197. 362. 6. 22.
2-WAY ART wo/prk (6) 448. 12043. 1008. 18. 64.
---TOTAL--- 1573. 44423. 4033. 62. 223.
(TONS) 1.73 48.92 4.44 0.07 0.25

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 777533. 19683. 39.50
SUBURBAN CBD (4) 10214. 278. 36.72
RURAL (5) 1621979. 35891. 45.19
TOTAL 2409726. 55852. 43.14

Shelby County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1392700. 23406. 59.50
2-WAY ART w/prk (3) 84330. 2119. 39.79
CENTROID CONNECT (5) 242639. 13592. 17.85
2-WAY ART wo/prk (6) 690057. 16735. 41.23
TOTAL 2409726. 55852. 43.14

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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 228. 5302. 449.  8.  29.
SUBURBAN CBD (4)  5. 133. 11.  0.  1.
RURAL (5) 1603. 42958. 3836. 62. 221.
---TOTAL--- 1836. 48393. 4297. 70. 250.
(TONS)      2.02 53.30 4.73 0.08 0.28
-----

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-----
Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 516. 16730. 1623. 22. 80.
2-WAY ART w/prk (3) 182. 4372. 370.  7. 24.
CENTROID CONNECT (5) 294. 5356. 462.  8. 29.
2-WAY ART wo/prk (6) 843. 21936. 1842. 33. 118.
---TOTAL--- 1836. 48393. 4297. 70. 250.
(TONS)      2.02 53.30 4.73 0.08 0.28
-----

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DAILY TRAVEL STATS

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-----
Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 309713. 11629. 26.63
SUBURBAN CBD (4)  7563.  198. 38.13
RURAL (5) 2381558. 61163. 38.94
TOTAL      2698834. 72990. 36.98
-----

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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 860488. 14007. 61.43
2-WAY ART w/prk (3) 256198. 8804. 29.10
CENTROID CONNECT (5) 309663. 16278. 19.02
2-WAY ART wo/prk (6) 1272486. 33900. 37.54
TOTAL      2698834. 72990. 36.98
-----

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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 203. 5475. 472. 8. 28.
SUBURBAN CBD (4) 1. 31. 3. 0. 0.
RURAL (5) 1539. 40888. 3588. 59. 211.
---TOTAL--- 1744. 46393. 4063. 67. 239.
(TONS) 1.92 51.09 4.47 0.07 0.26

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 284. 9176. 887. 12. 44.
EXPRESSWAY (2) 93. 2899. 261. 4. 14.
2-WAY ART w/prk (3) 109. 2803. 234. 4. 15.
CENTROID CONNECT (5) 295. 5362. 462. 8. 29.
2-WAY ART wo/prk (6) 964. 26153. 2218. 38. 137.
---TOTAL--- 1744. 46393. 4063. 67. 239.
(TONS) 1.92 51.09 4.47 0.07 0.26

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 307322. 7958. 38.62
SUBURBAN CBD (4) 1769. 47. 37.93
RURAL (5) 2270950. 59081. 38.44
TOTAL 2580040. 67086. 38.46

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 472861. 7737. 61.12
EXPRESSWAY (2) 152799. 2645. 57.76
2-WAY ART w/prk (3) 166054. 4310. 38.52
CENTROID CONNECT (5) 309986. 15985. 19.39
2-WAY ART wo/prk (6) 1478340. 36409. 40.60
TOTAL 2580040. 67086. 38.46

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 980. 24046. 2059. 36. 128.
 SUBURBAN CBD (4) 40. 1041. 87. 2. 6.
 RURAL (5) 1531. 40776. 3545. 59. 211.
 ---TOTAL--- 2551. 65863. 5691. 96. 345.
 (TONS) 2.81 72.54 6.27 0.11 0.38

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 709. 21388. 1944. 30. 107.
 2-WAY ART w/prk (3) 11. 279. 23. 0. 2.
 CENTROID CONNECT (5) 550. 10011. 863. 15. 54.
 2-WAY ART wo/prk (6) 1281. 34186. 2861. 51. 183.
 ---TOTAL--- 2551. 65863. 5691. 96. 345.
 (TONS) 2.81 72.54 6.27 0.11 0.38

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1382376. 45538. 30.36
 SUBURBAN CBD (4) 60597. 1562. 38.80
 RURAL (5) 2279666. 56463. 40.37
 TOTAL 3722642. 103562. 35.95

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1153956. 21492. 53.69
 2-WAY ART w/prk (3) 16415. 412. 39.89
 CENTROID CONNECT (5) 578797. 33469. 17.29
 2-WAY ART wo/prk (6) 1973472. 48190. 40.95
 TOTAL 3722642. 103562. 35.95

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 1058. 26340. 2259. 40. 142.
CDB FRINGE (2) 10263. 256566. 22040. 386. 1380.
RESIDENTIAL (3) 20163. 499396. 43329. 739. 2642.
SUBURBAN CBD (4) 502. 12177. 1026. 18. 66.
RURAL (5) 11473. 300563. 26387. 435. 1556.
---TOTAL--- 43459. 1095041. 95041. 1619. 5786.
(TONS) 47.86 1205.99 104.67 1.78 6.37

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 11705. 346254. 31782. 487. 1741.
EXPRESSWAY (2) 1701. 43186. 3665. 65. 231.
2-WAY ART w/prk (3) 9680. 232835. 19651. 355. 1270.
ONE-WAY ARTERIAL (4) 615. 15094. 1271. 23. 83.
CENTROID CONNECT (5) 6310. 114758. 9893. 173. 615.
2-WAY ART wo/prk (6) 13249. 337341. 28375. 509. 1820.
FREEWAY RAMPS (7) 199. 5574. 404. 7. 25.
---TOTAL--- 43459. 1095041. 95041. 1619. 5786.
(TONS) 47.86 1205.99 104.67 1.78 6.37

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1533429. 47716. 32.14
CDB FRINGE (2) 14893302. 459366. 32.42
RESIDENTIAL (3) 28642444. 1014355. 28.24
SUBURBAN CBD (4) 712791. 23305. 30.59
RURAL (5) 16811138. 461924. 36.39
TOTAL 62593156. 2006665. 31.19

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 18820544. 380491. 49.46
EXPRESSWAY (2) 2493383. 74035. 33.68
2-WAY ART w/prk (3) 13706679. 464380. 29.52
ONE-WAY ARTERIAL (4) 899948. 27335. 32.92
CENTROID CONNECT (5) 6634934. 402481. 16.49
2-WAY ART wo/prk (6) 19767702. 644879. 30.65
FREEWAY RAMPS (7) 269891. 13063. 20.66
TOTAL 62593156. 2006665. 31.19

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2010 Autumn

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 33.4 52.1

ABSOLUTE HUMIDITY : 29.9

CLOUD COVER : 0.47

SUNRISE/SUNSET : 7 6

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 12.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2011

EVALUATION MONTH : 1

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 : 2011

EVALUATION MONTH : 1

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 : 2011

EVALUATION MONTH : 1

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 : 2011

EVALUATION MONTH : 1

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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011
EVALUATION MONTH : 1
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 : 2011

EVALUATION MONTH : 1

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 : 2011

EVALUATION MONTH : 1

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

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2010 Summer

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 60.5 82.2

ABSOLUTE HUMIDITY : 56.2

CLOUD COVER : 0.66

SUNRISE/SUNSET : 6 8

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 9.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2010

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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2010 Spring

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 50.9 72.7

ABSOLUTE HUMIDITY : 58.2

CLOUD COVER : 0.60

SUNRISE/SUNSET : 6 7

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 10.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2010

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 : 2010

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 : 2010

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 : 2010

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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010
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 : 2010

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 : 2010

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

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2010 Winter

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 23.7 41.7

ABSOLUTE HUMIDITY : 22.0

CLOUD COVER : 0.46

SUNRISE/SUNSET : 8 6

REG DIST : c:\I98\m6\IN_grpPM.d

FUEL RVP : 12.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2010

EVALUATION MONTH : 1

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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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 : 2010
EVALUATION MONTH : 1
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: 09:34:28 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	2.0870	27.4820	0.8460	0.0139	0.0928
Freeway	5	1.1290	20.2540	0.7810	0.0139	0.0928
Freeway	10	0.6430	14.0710	0.5890	0.0139	0.0928
Freeway	15	0.4930	12.1220	0.4920	0.0139	0.0928
Freeway	20	0.4330	11.6580	0.4850	0.0139	0.0928
Freeway	25	0.4040	11.3760	0.4800	0.0139	0.0928
Freeway	30	0.3830	11.1910	0.4790	0.0139	0.0928
Freeway	35	0.3650	11.2100	0.4790	0.0139	0.0928
Freeway	40	0.3560	11.5750	0.4880	0.0139	0.0928
Freeway	45	0.3480	11.9570	0.5030	0.0139	0.0928
Freeway	50	0.3410	12.3530	0.5220	0.0139	0.0928
Freeway	55	0.3350	12.7640	0.5480	0.0139	0.0928
Freeway	60	0.3320	13.2240	0.5830	0.0139	0.0928
Freeway	65	0.3300	13.7090	0.6300	0.0139	0.0928
Arterial	3	2.0870	27.4820	0.8370	0.0139	0.0928
Arterial	5	1.1290	20.2540	0.7720	0.0139	0.0928
Arterial	10	0.6760	14.7520	0.6430	0.0139	0.0928
Arterial	15	0.5330	12.9190	0.5610	0.0139	0.0928
Arterial	20	0.4520	11.9760	0.5170	0.0139	0.0928
Arterial	25	0.4100	11.4520	0.4910	0.0139	0.0928
Arterial	30	0.3840	11.2050	0.4750	0.0139	0.0928
Arterial	35	0.3650	11.2100	0.4710	0.0139	0.0928
Arterial	40	0.3560	11.5750	0.4800	0.0139	0.0928
Arterial	45	0.3480	11.9570	0.4940	0.0139	0.0928
Arterial	50	0.3410	12.3530	0.5130	0.0139	0.0928
Arterial	55	0.3350	12.7640	0.5400	0.0139	0.0928
Arterial	60	0.3320	13.2240	0.5750	0.0139	0.0928
Arterial	65	0.3300	13.7090	0.6220	0.0139	0.0928
Local	1	0.5630	12.0890	0.4940	0.0139	0.0928
Ramps	1	0.3930	13.7170	0.5280	0.0139	0.0928

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:34:28 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:20A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	102.	4021.	176.	4.	28.
OTH. PRINC. ART.(2)	44.	660.	22.	0.	3.
MINOR ARTERIAL (6)	97.	2921.	123.	4.	23.
CENCON & INTRAS (9)	13.	269.	11.	0.	2.
SUBTOTAL	256.	7871.	332.	8.	57.

-----URBAN-----

INTERSTATE (11)	4472.	159229.	6811.	179.	1195.
OTH.FWY & XWAY (12)	258.	8306.	349.	10.	65.
OTH. PRINC. ART.(14)	2988.	89722.	3752.	108.	719.
MINOR ARTERIAL (16)	3080.	93177.	3919.	113.	755.
CENCON & INTRAS (19)	1366.	29334.	1199.	34.	225.
SUBTOTAL	12165.	379768.	16028.	443.	2959.

---TOTAL---	12420.	387638.	16361.	452.	3016.
(TONS)	13.68	426.91	18.02	0.50	3.32

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	306754.	5442.	56.37
OTH. PRINC. ART.(2)	29030.	6617.	4.39
MINOR ARTERIAL (6)	252088.	8213.	30.69
CENCON & INTRAS (9)	22234.	1112.	20.00
SUBTOTAL	610106.	21384.	28.53

-----URBAN-----

INTERSTATE (11)	12903826.	310713.	41.53
OTH.FWY & XWAY (12)	703760.	19436.	36.21
OTH. PRINC. ART.(14)	7802514.	287573.	27.13
MINOR ARTERIAL (16)	8140808.	253726.	32.09
CENCON & INTRAS (19)	2426546.	161839.	14.99
SUBTOTAL	31977458.	1033286.	30.95
TOTAL	32587566.	1054670.	30.90

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 161. 5821. 246. 7. 44.
OTH. PRINC. ART.(2) 402. 13458. 565. 16. 106.
MINOR ARTERIAL (6) 174. 5585. 233. 7. 45.
CENCON & INTRAS (9) 244. 5245. 214. 6. 40.
SUBTOTAL 982. 30108. 1258. 35. 235.
-----URBAN-----
INTERSTATE (11) 299. 10932. 469. 12. 81.
OTH.FWY & XWAY (12) 527. 17867. 758. 21. 138.
OTH. PRINC. ART.(14) 500. 16226. 676. 19. 129.
MINOR ARTERIAL (16) 568. 17548. 735. 21. 141.
CENCON & INTRAS (19) 403. 8657. 354. 10. 66.
SUBTOTAL 2297. 71229. 2992. 83. 555.
---TOTAL--- 3279. 101337. 4250. 118. 790.
(TONS) 3.61 111.60 4.68 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 472377. 9522. 49.61
OTH. PRINC. ART.(2) 1138205. 27447. 41.47
MINOR ARTERIAL (6) 483232. 12604. 38.34
CENCON & INTRAS (9) 433828. 21691. 20.00
SUBTOTAL 2527642. 71264. 35.47
-----URBAN-----
INTERSTATE (11) 876538. 17428. 50.30
OTH.FWY & XWAY (12) 1484052. 36315. 40.87
OTH. PRINC. ART.(14) 1390738. 35802. 38.85
MINOR ARTERIAL (16) 1517107. 45326. 33.47
CENCON & INTRAS (19) 716080. 47241. 15.16
SUBTOTAL 5984514. 182112. 32.86
TOTAL 8512153. 253376. 33.59

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 282. 10352. 440. 12. 77.
OTH. PRINC. ART.(2) 331. 11554. 484. 13. 88.
MINOR ARTERIAL (6) 77. 2546. 106. 3. 20.
CENCON & INTRAS (9) 196. 4201. 172. 5. 32.
SUBTOTAL 886. 28653. 1202. 33. 218.
-----URBAN-----
INTERSTATE (11) 175. 6479. 279. 7. 48.
OTH.FWY & XWAY (12) 53. 2119. 93. 2. 15.
OTH. PRINC. ART.(14) 252. 8225. 342. 10. 65.
MINOR ARTERIAL (16) 215. 6795. 284. 8. 55.
CENCON & INTRAS (19) 172. 3704. 151. 4. 28.
SUBTOTAL 868. 27322. 1149. 32. 212.
---TOTAL--- 1753. 55975. 2351. 64. 429.
(TONS) 1.93 61.65 2.59 0.07 0.47

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 831272. 16251. 51.15
OTH. PRINC. ART.(2) 949491. 21116. 44.97
MINOR ARTERIAL (6) 216459. 5294. 40.89
CENCON & INTRAS (9) 347467. 17373. 20.00
SUBTOTAL 2344689. 60034. 39.06
-----URBAN-----
INTERSTATE (11) 515228. 9958. 51.74
OTH.FWY & XWAY (12) 160214. 2670. 60.00
OTH. PRINC. ART.(14) 705186. 17664. 39.92
MINOR ARTERIAL (16) 592146. 16189. 36.58
CENCON & INTRAS (19) 306361. 20424. 15.00
SUBTOTAL 2279135. 66906. 34.06
TOTAL 4623824. 126940. 36.43

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 278. 11164. 496. 12. 78.
OTH. PRINC. ART.(2) 291. 9867. 409. 11. 76.
MINOR ARTERIAL (6) 43. 1371. 57. 2. 11.
CENCON & INTRAS (9) 197. 4228. 173. 5. 32.
SUBTOTAL 810. 26630. 1135. 30. 198.
-----URBAN-----
INTERSTATE (11) 161. 6399. 282. 7. 45.
OTH. PRINC. ART.(14) 304. 9893. 412. 12. 79.
MINOR ARTERIAL (16) 211. 6821. 284. 8. 55.
CENCON & INTRAS (19) 120. 2574. 105. 3. 20.
SUBTOTAL 795. 25687. 1083. 30. 198.
---TOTAL--- 1605. 52317. 2217. 59. 396.
(TONS) 1.77 57.62 2.44 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 839342. 13810. 60.78
OTH. PRINC. ART.(2) 821531. 19557. 42.01
MINOR ARTERIAL (6) 119778. 3164. 37.85
CENCON & INTRAS (9) 349765. 17488. 20.00
SUBTOTAL 2130415. 54019. 39.44
-----URBAN-----
INTERSTATE (11) 485093. 8148. 59.53
OTH. PRINC. ART.(14) 850790. 21462. 39.64
MINOR ARTERIAL (16) 589839. 14987. 39.36
CENCON & INTRAS (19) 212943. 14179. 15.02
SUBTOTAL 2138665. 58776. 36.39
TOTAL 4269080. 112795. 37.85

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 194. 6484. 269. 8. 51.
MINOR ARTERIAL ( 6) 50. 1601. 67. 2. 13.
CENCON & INTRAS ( 9) 100. 2152. 88. 2. 17.
      SUBTOTAL 344. 10238. 424. 12. 80.
-----URBAN-----
INTERSTATE (11) 446. 17589. 771. 19. 124.
OTH. PRINC. ART.(14) 208. 6641. 277. 8. 52.
MINOR ARTERIAL (16) 148. 4607. 193. 6. 37.
CENCON & INTRAS (19) 110. 2352. 96. 3. 18.
      SUBTOTAL 911. 31189. 1336. 35. 232.
---TOTAL---      1255. 41427. 1760. 47. 312.
(TONS)           1.38 45.62 1.94 0.05 0.34

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 544911. 13261. 41.09
MINOR ARTERIAL ( 6) 138994. 3690. 37.67
CENCON & INTRAS ( 9) 178044. 8902. 20.00
      SUBTOTAL 861949. 25853. 33.34
-----URBAN-----
INTERSTATE (11) 1341253. 22816. 58.79
OTH. PRINC. ART.(14) 565292. 15572. 36.30
MINOR ARTERIAL (16) 400257. 11405. 35.10
CENCON & INTRAS (19) 194541. 12969. 15.00
      SUBTOTAL 2501344. 62762. 39.85
TOTAL        3363292. 88616. 37.95

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Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 370. 14297. 622. 15. 103.
OTH. PRINC. ART.(2) 179. 6039. 250. 7. 47.
MINOR ARTERIAL (6) 7. 243. 10. 0. 2.
CENCON & INTRAS (9) 88. 1897. 78. 2. 15.
SUBTOTAL 644. 22475. 960. 25. 166.
-----URBAN-----
INTERSTATE (11) 174. 6760. 294. 7. 48.
OTH. PRINC. ART.(14) 60. 1964. 82. 2. 16.
MINOR ARTERIAL (16) 17. 563. 23. 1. 5.
CENCON & INTRAS (19) 51. 1094. 45. 1. 8.
SUBTOTAL 302. 10380. 443. 12. 77.
---TOTAL--- 946. 32855. 1403. 36. 243.
(TONS) 1.04 36.18 1.55 0.04 0.27

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 1105366. 19542. 56.56
OTH. PRINC. ART.(2) 505802. 11995. 42.17
MINOR ARTERIAL (6) 20304. 466. 43.55
CENCON & INTRAS (9) 156909. 7845. 20.00
SUBTOTAL 1788382. 39849. 44.88
-----URBAN-----
INTERSTATE (11) 521600. 9136. 57.09
OTH. PRINC. ART.(14) 168078. 4315. 38.96
MINOR ARTERIAL (16) 48884. 1254. 39.00
CENCON & INTRAS (19) 90550. 5944. 15.23
SUBTOTAL 829112. 20648. 40.15
TOTAL 2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE   (1)  520. 20738.  916.  22. 145.
OTH. PRINC. ART.(2) 255. 8818.  365.  10. 68.
MINOR ARTERIAL (6)  30.  951.  40.   1.  8.
CENCON & INTRAS (9) 150. 3219.  132.   4. 25.
      SUBTOTAL  955. 33726. 1452.  37. 246.
-----URBAN-----
OTH. PRINC. ART.(14) 63. 2085.  86.   2. 17.
MINOR ARTERIAL (16) 22.  667.  28.   1.  5.
CENCON & INTRAS (19) 27.  576.  24.   1.  4.
      SUBTOTAL  112. 3328.  138.   4. 26.
---TOTAL---      1066. 37055. 1590.  41. 272.
(TONS)           1.17 40.81  1.75  0.04 0.30

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE   (1) 1565995.  26027. 60.17
OTH. PRINC. ART.(2) 734961.  16174. 45.44
MINOR ARTERIAL (6)  82601.  2112. 39.12
CENCON & INTRAS (9) 266250.  13312. 20.00
      SUBTOTAL  2649806.  57626. 45.98
-----URBAN-----
OTH. PRINC. ART.(14) 177934.  4309. 41.29
MINOR ARTERIAL (16)  58352.  1828. 31.92
CENCON & INTRAS (19) 47648.  3177. 15.00
      SUBTOTAL  398379.  10945. 36.40
TOTAL         3048185.  68571. 44.45

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Morgan County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 147. 5888. 261. 6. 41.
OTH. PRINC. ART.(2) 502. 18394. 791. 20. 135.
MINOR ARTERIAL (6) 43. 1386. 58. 2. 11.
CENCON & INTRAS (9) 188. 4039. 165. 5. 31.
SUBTOTAL 880. 29706. 1274. 33. 219.
-----URBAN-----
OTH. PRINC. ART.(14) 99. 3586. 152. 4. 27.
MINOR ARTERIAL (16) 12. 406. 17. 0. 3.
CENCON & INTRAS (19) 17. 359. 15. 0. 3.
SUBTOTAL 129. 4352. 184. 5. 33.
---TOTAL--- 1009. 34058. 1457. 38. 252.
(TONS) 1.11 37.51 1.61 0.04 0.28

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 443376. 7319. 60.58
OTH. PRINC. ART.(2) 1458345. 29844. 48.87
MINOR ARTERIAL (6) 120722. 3126. 38.62
CENCON & INTRAS (9) 334093. 16705. 20.00
SUBTOTAL 2356536. 56994. 41.35
-----URBAN-----
OTH. PRINC. ART.(14) 289656. 5996. 48.31
MINOR ARTERIAL (16) 35023. 873. 40.11
CENCON & INTRAS (19) 29725. 1982. 15.00
SUBTOTAL 354404. 8851. 40.04
TOTAL 2710940. 65844. 41.17

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Madison County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 351. 12698. 542. 14. 95.
OTH. PRINC. ART.(2) 379. 12875. 533. 15. 100.
MINOR ARTERIAL (6) 3. 109. 5. 0. 1.
CENCON & INTRAS (9) 181. 3995. 163. 5. 31.
      SUBTOTAL 914. 29677. 1243. 34. 227.
-----URBAN-----
INTERSTATE (11) 89. 3272. 139. 4. 24.
OTH. PRINC. ART.(14) 351. 11251. 469. 13. 90.
CENCON & INTRAS (19) 154. 3304. 135. 4. 25.
      SUBTOTAL 595. 17826. 743. 21. 140.
---TOTAL--- 1509. 47503. 1986. 55. 366.
(TONS)      1.66 52.32 2.19 0.06 0.40

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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1025036. 20679. 49.57
OTH. PRINC. ART.(2) 1078236. 24889. 43.32
MINOR ARTERIAL (6) 9407. 233. 40.30
CENCON & INTRAS (9) 330358. 15917. 20.75
      SUBTOTAL 2443038. 61718. 39.58
-----URBAN-----
INTERSTATE (11) 263113. 5159. 51.00
OTH. PRINC. ART.(14) 969213. 25902. 37.42
CENCON & INTRAS (19) 273280. 18219. 15.00
      SUBTOTAL 1505606. 49280. 30.55
TOTAL 3948642. 110998. 35.57

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 2212. 84978. 3698. 92. 612.
OTH. PRINC. ART.(2) 2576. 88148. 3688. 101. 674.
MINOR ARTERIAL (6) 524. 16713. 697. 20. 134.
CENCON & INTRAS (9) 1357. 29244. 1195. 34. 224.
      SUBTOTAL 6670. 219084. 9279. 246. 1644.
-----URBAN-----
INTERSTATE (11) 5817. 210659. 9044. 235. 1566.
OTH.FWY & XWAY (12) 839. 28292. 1200. 33. 218.
OTH. PRINC. ART.(14) 4825. 149593. 6247. 179. 1193.
MINOR ARTERIAL (16) 4274. 130584. 5482. 158. 1056.
CENCON & INTRAS (19) 2419. 51953. 2123. 60. 399.
      SUBTOTAL 18173. 571082. 24097. 664. 4433.
---TOTAL---      24843. 790165. 33376. 910. 6077.
(TONS)           27.36 870.23 36.76 1.00 6.69

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 6589517. 118593. 55.56
OTH. PRINC. ART.(2) 7260511. 170899. 42.48
MINOR ARTERIAL (6) 1443586. 38903. 37.11
CENCON & INTRAS (9) 2418949. 120346. 20.10
      SUBTOTAL 17712556. 448741. 39.47
-----URBAN-----
INTERSTATE (11) 17021096. 384991. 44.21
OTH.FWY & XWAY (12) 2348027. 58421. 40.19
OTH. PRINC. ART.(14) 12919400. 418595. 30.86
MINOR ARTERIAL (16) 11382421. 345587. 32.94
CENCON & INTRAS (19) 4297671. 285973. 15.03
      SUBTOTAL 47968584. 1493565. 32.12
TOTAL           65681068. 1942307. 33.82

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:34:28 23MAR09
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:20A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

CBD	(1)	589.	18039.	762.	22.	144.
CDB FRINGE	(2)	5585.	174262.	7336.	207.	1381.
RESIDENTIAL	(3)	5978.	186968.	7908.	214.	1431.
RURAL	(5)	268.	8369.	354.	9.	60.
---TOTAL---		12420.	387638.	16361.	452.	3016.
(TONS)		13.68	426.91	18.02	0.50	3.32

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

FREEWAY	(1)	4506.	160956.	6906.	181.	1209.
EXPRESSWAY	(2)	199.	6122.	257.	7.	49.
2-WAY ART w/prk	(3)	3131.	94433.	3973.	115.	766.
ONE-WAY ARTERIAL	(4)	329.	10041.	422.	12.	82.
CENTROID CONNECT	(5)	1378.	29599.	1210.	34.	227.
2-WAY ART wo/prk	(6)	2749.	82010.	3420.	98.	653.
FREEWAY RAMPS	(7)	128.	4477.	172.	5.	30.
---TOTAL---		12420.	387638.	16361.	452.	3016.
(TONS)		13.68	426.91	18.02	0.50	3.32

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

CBD	(1)	1548989.	48797.	31.74	
CDB FRINGE	(2)	14890337.	438842.	33.93	
RESIDENTIAL	(3)	15501398.	545041.	28.44	
RURAL	(5)	646824.	21991.	29.41	
TOTAL		32587566.	1054670.	30.90	

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

FREEWAY	(1)	13055722.	279670.	46.68	
EXPRESSWAY	(2)	532217.	15891.	33.49	
2-WAY ART w/prk	(3)	8251882.	259430.	31.81	
ONE-WAY ARTERIAL	(4)	881868.	26521.	33.25	
CENTROID CONNECT	(5)	2448456.	162940.	15.03	
2-WAY ART wo/prk	(6)	7091007.	270188.	26.24	
FREEWAY RAMPS	(7)	326398.	40030.	8.15	
TOTAL		32587566.	1054670.	30.90	

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 142. 5081. 223. 6. 37.
RESIDENTIAL (3) 2000. 61447. 2574. 72. 481.
SUBURBAN CBD (4) 154. 4701. 196. 6. 37.
RURAL (5) 982. 30108. 1258. 35. 235.
---TOTAL--- 3279. 101337. 4250. 118. 790.
(TONS) 3.61 111.60 4.68 0.13 0.87

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 804. 29113. 1248. 33. 217.
EXPRESSWAY (2) 364. 11559. 483. 14. 93.
2-WAY ART w/prk (3) 607. 18695. 783. 23. 151.
ONE-WAY ARTERIAL (4) 0. 9. 0. 0. 0.
CENTROID CONNECT (5) 647. 13901. 568. 16. 107.
2-WAY ART wo/prk (6) 855. 28059. 1167. 33. 222.
---TOTAL--- 3279. 101337. 4250. 118. 790.
(TONS) 3.61 111.60 4.68 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 397042. 9738. 40.77
RESIDENTIAL (3) 5186715. 159870. 32.44
SUBURBAN CBD (4) 400759. 12504. 32.05
RURAL (5) 2527642. 71264. 35.47
TOTAL 8512153. 253376. 33.59

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 2338668. 48588. 48.13
EXPRESSWAY (2) 1005133. 27171. 36.99
2-WAY ART w/prk (3) 1623207. 48548. 33.44
ONE-WAY ARTERIAL (4) 754. 17. 45.00
CENTROID CONNECT (5) 1149908. 68933. 16.68
2-WAY ART wo/prk (6) 2394486. 60119. 39.83
TOTAL 8512153. 253376. 33.59

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 80. 2456. 102. 3. 20.
RESIDENTIAL (3) 715. 22708. 958. 26. 175.
SUBURBAN CBD (4) 73. 2159. 89. 3. 17.
RURAL (5) 886. 28653. 1202. 33. 218.
---TOTAL--- 1753. 55975. 2351. 64. 429.
(TONS) 1.93 61.65 2.59 0.07 0.47

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 545. 20304. 871. 22. 149.
2-WAY ART w/prk (3) 292. 9341. 390. 11. 75.
CENTROID CONNECT (5) 368. 7904. 323. 9. 61.
2-WAY ART wo/prk (6) 548. 18426. 766. 22. 144.
---TOTAL--- 1753. 55975. 2351. 64. 429.
(TONS) 1.93 61.65 2.59 0.07 0.47

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 213304. 6271. 34.02
RESIDENTIAL (3) 1882025. 54558. 34.50
SUBURBAN CBD (4) 183806. 6076. 30.25
RURAL (5) 2344689. 60034. 39.06
TOTAL 4623824. 126940. 36.43

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1609094. 30586. 52.61
2-WAY ART w/prk (3) 808605. 21483. 37.64
CENTROID CONNECT (5) 653828. 37797. 17.30
2-WAY ART wo/prk (6) 1552297. 37073. 41.87
TOTAL 4623824. 126940. 36.43

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 795. 25687. 1083. 30. 198.
RURAL (5) 810. 26630. 1135. 30. 198.
---TOTAL--- 1605. 52317. 2217. 59. 396.
(TONS) 1.77 57.62 2.44 0.07 0.44

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 440. 17563. 778. 18. 123.
2-WAY ART w/prk (3) 196. 6270. 261. 8. 51.
CENTROID CONNECT (5) 317. 6798. 278. 8. 52.
2-WAY ART wo/prk (6) 653. 21687. 901. 26. 170.
---TOTAL--- 1605. 52317. 2217. 59. 396.
(TONS) 1.77 57.62 2.44 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2138665. 58776. 36.39
RURAL (5) 2130415. 54019. 39.44
TOTAL 4269080. 112795. 37.85

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1324434. 21958. 60.32
2-WAY ART w/prk (3) 545427. 14201. 38.41
CENTROID CONNECT (5) 562310. 31658. 17.76
2-WAY ART wo/prk (6) 1836910. 44978. 40.84
TOTAL 4269080. 112795. 37.85

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Hancock County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 898. 30790. 1320. 34. 229.
SUBURBAN CBD (4) 13. 400. 17. 0. 3.
RURAL (5) 344. 10238. 424. 12. 80.
---TOTAL--- 1255. 41427. 1760. 47. 312.
(TONS) 1.38 45.62 1.94 0.05 0.34
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Hancock County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 446. 17589. 771. 19. 124.
2-WAY ART w/prk (3) 198. 6208. 259. 7. 50.
CENTROID CONNECT (5) 210. 4504. 184. 5. 35.
2-WAY ART wo/prk (6) 401. 13125. 546. 15. 103.
---TOTAL--- 1255. 41427. 1760. 47. 312.
(TONS) 1.38 45.62 1.94 0.05 0.34
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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 2467663. 61804. 39.93
SUBURBAN CBD (4) 33681. 959. 35.13
RURAL (5) 861949. 25853. 33.34
TOTAL 3363292. 88616. 37.95
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Hancock County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1341253. 22816. 58.79
2-WAY ART w/prk (3) 539251. 15095. 35.72
CENTROID CONNECT (5) 372585. 21872. 17.04
2-WAY ART wo/prk (6) 1110203. 28833. 38.50
TOTAL 3363292. 88616. 37.95
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Shelby County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 299. 10263. 439. 11. 76.
SUBURBAN CBD (4) 4. 117. 5. 0. 1.
RURAL (5) 644. 22475. 960. 25. 166.
---TOTAL--- 946. 32855. 1403. 36. 243.
(TONS) 1.04 36.18 1.55 0.04 0.27

Shelby County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 544. 21057. 915. 23. 151.
2-WAY ART w/prk (3) 26. 864. 36. 1. 7.
CENTROID CONNECT (5) 138. 2965. 121. 3. 23.
2-WAY ART wo/prk (6) 238. 7969. 331. 9. 62.
---TOTAL--- 946. 32855. 1403. 36. 243.
(TONS) 1.04 36.18 1.55 0.04 0.27

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 819105. 20374. 40.20
SUBURBAN CBD (4) 10008. 274. 36.59
RURAL (5) 1788382. 39849. 44.88
TOTAL 2617494. 60497. 43.27

Shelby County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1626966. 28678. 56.73
2-WAY ART w/prk (3) 73899. 1817. 40.67
CENTROID CONNECT (5) 245266. 13736. 17.86
2-WAY ART wo/prk (6) 671363. 16266. 41.27
TOTAL 2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 109. 3248. 135.  4.  26.
SUBURBAN CBD (4)  2.  81.   3.   0.   1.
RURAL        (5) 955. 33726. 1452. 37. 246.
---TOTAL---    1066. 37055. 1590. 41. 272.
(TONS)         1.17 40.81  1.75  0.04 0.30
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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 520. 20738. 916.  22. 145.
2-WAY ART w/prk (3) 52. 1619. 68.  2. 13.
CENTROID CONNECT (5) 177. 3795. 155.  4. 29.
2-WAY ART wo/prk (6) 318. 10903. 451. 13. 85.
---TOTAL---    1066. 37055. 1590. 41. 272.
(TONS)         1.17 40.81  1.75  0.04 0.30
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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 391657. 10767. 36.38
SUBURBAN CBD (4)  6722.  178. 37.70
RURAL        (5) 2649806. 57626. 45.98
TOTAL        3048185. 68571. 44.45
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE VMT    VHT  SPEED
-----
FREEWAY (1) 1680440. 27659. 60.75
2-WAY ART w/prk (3) 140954. 3939. 35.78
CENTROID CONNECT (5) 313897. 16489. 19.04
2-WAY ART wo/prk (6) 912895. 20483. 44.57
TOTAL        3048185. 68571. 44.45
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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 128. 4334. 183. 5. 33.
SUBURBAN CBD (4) 1. 17. 1. 0. 0.
RURAL (5) 880. 29706. 1274. 33. 219.
---TOTAL--- 1009. 34058. 1457. 38. 252.
(TONS) 1.11 37.51 1.61 0.04 0.28

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 360. 14484. 645. 15. 101.
2-WAY ART w/prk (3) 56. 1792. 75. 2. 14.
CENTROID CONNECT (5) 205. 4398. 180. 5. 34.
2-WAY ART wo/prk (6) 388. 13383. 558. 15. 103.
---TOTAL--- 1009. 34058. 1457. 38. 252.
(TONS) 1.11 37.51 1.61 0.04 0.28

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 352944. 8811. 40.06
SUBURBAN CBD (4) 1460. 40. 36.65
RURAL (5) 2356536. 56994. 41.35
TOTAL 2710940. 65844. 41.17

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1085993. 17756. 61.16
2-WAY ART w/prk (3) 155745. 3999. 38.94
CENTROID CONNECT (5) 363818. 18686. 19.47
2-WAY ART wo/prk (6) 1105385. 25403. 43.51
TOTAL 2710940. 65844. 41.17

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Madison County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 572. 17109. 713. 20. 134.
SUBURBAN CBD (4) 22. 717. 30. 1. 6.
RURAL (5) 914. 29677. 1243. 34. 227.
---TOTAL--- 1509. 47503. 1986. 55. 366.
(TONS) 1.66 52.32 2.19 0.06 0.40
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Madison County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 440. 15969. 680. 18. 120.
2-WAY ART w/prk (3) 3. 109. 5. 0. 1.
CENTROID CONNECT (5) 328. 7047. 288. 8. 54.
2-WAY ART wo/prk (6) 737. 24377. 1013. 29. 192.
---TOTAL--- 1509. 47503. 1986. 55. 366.
(TONS) 1.66 52.32 2.19 0.06 0.40
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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 1444306. 47700. 30.28
SUBURBAN CBD (4) 61300. 1580. 38.80
RURAL (5) 2443038. 61718. 39.58
TOTAL 3948642. 110998. 35.57
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Madison County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1288149. 25838. 49.86
2-WAY ART w/prk (3) 9407. 233. 40.30
CENTROID CONNECT (5) 582932. 33701. 17.30
2-WAY ART wo/prk (6) 2068154. 51226. 40.37
TOTAL 3948642. 110998. 35.57
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Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 589. 18039. 762. 22. 144.
CDB FRINGE (2) 5808. 181798. 7660. 215. 1438.
RESIDENTIAL (3) 11495. 362554. 15312. 417. 2783.
SUBURBAN CBD (4) 269. 8192. 340. 10. 65.
RURAL (5) 6682. 219582. 9301. 247. 1647.
---TOTAL--- 24843. 790165. 33376. 910. 6077.
(TONS) 27.36 870.23 36.76 1.00 6.69

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 8604. 317774. 13732. 350. 2339.
EXPRESSWAY (2) 563. 17681. 740. 21. 143.
2-WAY ART w/prk (3) 4561. 139330. 5850. 169. 1127.
ONE-WAY ARTERIAL (4) 330. 10050. 422. 12. 82.
CENTROID CONNECT (5) 3768. 80912. 3306. 93. 621.
2-WAY ART wo/prk (6) 6889. 219941. 9153. 260. 1734.
FREEWAY RAMPS (7) 128. 4477. 172. 5. 30.
---TOTAL--- 24843. 790165. 33376. 910. 6077.
(TONS) 27.36 870.23 36.76 1.00 6.69

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1548989. 48797. 31.74
CDB FRINGE (2) 15500681. 454851. 34.08
RESIDENTIAL (3) 30184476. 967702. 31.19
SUBURBAN CBD (4) 697735. 21611. 32.29
RURAL (5) 17749276. 449348. 39.50
TOTAL 65681068. 1942307. 33.82

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 25350734. 503550. 50.34
EXPRESSWAY (2) 1537350. 43063. 35.70
2-WAY ART w/prk (3) 12148380. 368747. 32.95
ONE-WAY ARTERIAL (4) 882622. 26538. 33.26
CENTROID CONNECT (5) 6692997. 405811. 16.49
2-WAY ART wo/prk (6) 18742682. 554569. 33.80
FREEWAY RAMPS (7) 326398. 40030. 8.15
TOTAL 65681068. 1942307. 33.82

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:34:08 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	2.2860	18.8820	0.7770	0.0141	0.0928
Freeway	5	1.1980	13.5270	0.7160	0.0141	0.0928
Freeway	10	0.6700	8.9110	0.5410	0.0141	0.0928
Freeway	15	0.5040	7.4270	0.4520	0.0141	0.0928
Freeway	20	0.4220	7.0030	0.4410	0.0141	0.0928
Freeway	25	0.3910	6.7750	0.4350	0.0140	0.0928
Freeway	30	0.3680	6.6260	0.4320	0.0140	0.0928
Freeway	35	0.3490	6.6300	0.4320	0.0140	0.0928
Freeway	40	0.3370	6.8900	0.4400	0.0140	0.0928
Freeway	45	0.3270	7.1640	0.4530	0.0140	0.0928
Freeway	50	0.3190	7.4520	0.4720	0.0140	0.0928
Freeway	55	0.3120	7.7550	0.4990	0.0140	0.0928
Freeway	60	0.3090	8.1060	0.5340	0.0140	0.0928
Freeway	65	0.3060	8.4790	0.5820	0.0140	0.0928
Arterial	3	2.2860	18.8820	0.7680	0.0141	0.0928
Arterial	5	1.1980	13.5270	0.7070	0.0141	0.0928
Arterial	10	0.6980	9.4110	0.5860	0.0141	0.0928
Arterial	15	0.5380	8.0150	0.5090	0.0141	0.0928
Arterial	20	0.4380	7.2330	0.4670	0.0141	0.0928
Arterial	25	0.3960	6.8300	0.4420	0.0140	0.0928
Arterial	30	0.3700	6.6350	0.4270	0.0140	0.0928
Arterial	35	0.3490	6.6300	0.4220	0.0140	0.0928
Arterial	40	0.3370	6.8900	0.4300	0.0140	0.0928
Arterial	45	0.3270	7.1640	0.4440	0.0140	0.0928
Arterial	50	0.3190	7.4520	0.4630	0.0140	0.0928
Arterial	55	0.3120	7.7550	0.4890	0.0140	0.0928
Arterial	60	0.3090	8.1060	0.5240	0.0140	0.0928
Arterial	65	0.3060	8.4790	0.5720	0.0140	0.0928
Local	1	0.5790	7.4110	0.4520	0.0141	0.0928
Ramps	1	0.3730	8.4430	0.4690	0.0140	0.0928

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:34:08 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:20A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	95.	2460.	161.	4.	28.
OTH. PRINC. ART.(2)	47.	445.	20.	0.	3.
MINOR ARTERIAL (6)	94.	1744.	110.	4.	23.
CENCON & INTRAS (9)	13.	165.	10.	0.	2.
SUBTOTAL	249.	4814.	302.	9.	57.

-----URBAN-----

INTERSTATE (11)	4203.	96193.	6178.	180.	1195.
OTH.FWY & XWAY (12)	246.	4970.	314.	10.	65.
OTH. PRINC. ART.(14)	2873.	53530.	3369.	108.	719.
MINOR ARTERIAL (16)	2952.	55429.	3518.	114.	755.
CENCON & INTRAS (19)	1405.	17983.	1097.	34.	225.
SUBTOTAL	11679.	228104.	14475.	447.	2959.

---TOTAL---	11928.	232917.	14777.	455.	3016.
(TONS)	13.14	256.52	16.27	0.50	3.32

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	306754.	5442.	56.37
OTH. PRINC. ART.(2)	29030.	6617.	4.39
MINOR ARTERIAL (6)	252088.	8213.	30.69
CENCON & INTRAS (9)	22234.	1112.	20.00
SUBTOTAL	610106.	21384.	28.53

-----URBAN-----

INTERSTATE (11)	12903826.	310713.	41.53
OTH.FWY & XWAY (12)	703760.	19436.	36.21
OTH. PRINC. ART.(14)	7802514.	287573.	27.13
MINOR ARTERIAL (16)	8140808.	253726.	32.09
CENCON & INTRAS (19)	2426546.	161839.	14.99
SUBTOTAL	31977458.	1033286.	30.95
TOTAL	32587566.	1054670.	30.90

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 151. 3510. 222. 7. 44.
OTH. PRINC. ART.(2) 380. 8052. 508. 16. 106.
MINOR ARTERIAL (6) 165. 3325. 209. 7. 45.
CENCON & INTRAS (9) 251. 3215. 196. 6. 40.
SUBTOTAL 948. 18101. 1135. 35. 235.

-----URBAN-----

INTERSTATE (11) 280. 6614. 426. 12. 81.
OTH.FWY & XWAY (12) 498. 10736. 686. 21. 138.
OTH. PRINC. ART.(14) 474. 9679. 607. 19. 129.
MINOR ARTERIAL (16) 543. 10459. 660. 21. 141.
CENCON & INTRAS (19) 415. 5307. 324. 10. 66.
SUBTOTAL 2209. 42795. 2702. 84. 555.

---TOTAL--- 3157. 60896. 3837. 119. 790.
(TONS) 3.48 67.07 4.23 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 472377. 9522. 49.61
OTH. PRINC. ART.(2) 1138205. 27447. 41.47
MINOR ARTERIAL (6) 483232. 12604. 38.34
CENCON & INTRAS (9) 433828. 21691. 20.00
SUBTOTAL 2527642. 71264. 35.47

-----URBAN-----

INTERSTATE (11) 876538. 17428. 50.30
OTH.FWY & XWAY (12) 1484052. 36315. 40.87
OTH. PRINC. ART.(14) 1390738. 35802. 38.85
MINOR ARTERIAL (16) 1517107. 45326. 33.47
CENCON & INTRAS (19) 716080. 47241. 15.16
SUBTOTAL 5984514. 182112. 32.86
TOTAL 8512153. 253376. 33.59

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Johnson County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 264. 6256. 398. 12. 77.
OTH. PRINC. ART.(2) 311. 6954. 437. 13. 88.
MINOR ARTERIAL (6) 73. 1521. 95. 3. 20.
CENCON & INTRAS (9) 201. 2575. 157. 5. 32.
      SUBTOTAL 849. 17307. 1088. 33. 218.
-----URBAN-----
INTERSTATE (11) 164. 3927. 253. 7. 48.
OTH.FWY & XWAY (12) 50. 1299. 86. 2. 15.
OTH. PRINC. ART.(14) 238. 4905. 307. 10. 65.
MINOR ARTERIAL (16) 205. 4039. 255. 8. 55.
CENCON & INTRAS (19) 177. 2270. 138. 4. 28.
      SUBTOTAL 833. 16441. 1038. 32. 212.
---TOTAL---      1682. 33747. 2126. 65. 429.
(TONS)           1.85 37.17 2.34 0.07 0.47

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DAILY TRAVEL STATS

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Johnson County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 831272. 16251. 51.15
OTH. PRINC. ART.(2) 949491. 21116. 44.97
MINOR ARTERIAL (6) 216459. 5294. 40.89
CENCON & INTRAS (9) 347467. 17373. 20.00
      SUBTOTAL 2344689. 60034. 39.06
-----URBAN-----
INTERSTATE (11) 515228. 9958. 51.74
OTH.FWY & XWAY (12) 160214. 2670. 60.00
OTH. PRINC. ART.(14) 705186. 17664. 39.92
MINOR ARTERIAL (16) 592146. 16189. 36.58
CENCON & INTRAS (19) 306361. 20424. 15.00
      SUBTOTAL 2279135. 66906. 34.06
TOTAL          4623824. 126940. 36.43

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Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 259. 6854. 455. 12. 78.
OTH. PRINC. ART.(2) 275. 5921. 368. 12. 76.
MINOR ARTERIAL (6) 41. 814. 51. 2. 11.
CENCON & INTRAS (9) 203. 2592. 158. 5. 32.
SUBTOTAL 777. 16181. 1032. 30. 198.
-----URBAN-----
INTERSTATE (11) 150. 3920. 259. 7. 45.
OTH. PRINC. ART.(14) 288. 5896. 369. 12. 79.
MINOR ARTERIAL (16) 200. 4060. 254. 8. 55.
CENCON & INTRAS (19) 123. 1578. 96. 3. 20.
SUBTOTAL 761. 15454. 979. 30. 198.
---TOTAL--- 1538. 31635. 2010. 60. 396.
(TONS) 1.69 34.84 2.21 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 839342. 13810. 60.78
OTH. PRINC. ART.(2) 821531. 19557. 42.01
MINOR ARTERIAL (6) 119778. 3164. 37.85
CENCON & INTRAS (9) 349765. 17488. 20.00
SUBTOTAL 2130415. 54019. 39.44
-----URBAN-----
INTERSTATE (11) 485093. 8148. 59.53
OTH. PRINC. ART.(14) 850790. 21462. 39.64
MINOR ARTERIAL (16) 589839. 14987. 39.36
CENCON & INTRAS (19) 212943. 14179. 15.02
SUBTOTAL 2138665. 58776. 36.39
TOTAL 4269080. 112795. 37.85

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 183. 3883. 242. 8. 51.
MINOR ARTERIAL ( 6) 48. 952. 60. 2. 13.
CENCON & INTRAS ( 9) 103. 1319. 80. 3. 17.
      SUBTOTAL 334. 6155. 382. 12. 80.
-----URBAN-----
INTERSTATE (11) 415. 10760. 705. 19. 124.
OTH. PRINC. ART.(14) 197. 3970. 249. 8. 52.
MINOR ARTERIAL (16) 141. 2742. 173. 6. 37.
CENCON & INTRAS (19) 113. 1442. 88. 3. 18.
      SUBTOTAL 866. 18914. 1215. 35. 232.
---TOTAL---      1200. 25069. 1597. 47. 312.
(TONS)           1.32 27.61 1.76 0.05 0.34

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 544911. 13261. 41.09
MINOR ARTERIAL ( 6) 138994. 3690. 37.67
CENCON & INTRAS ( 9) 178044. 8902. 20.00
      SUBTOTAL 861949. 25853. 33.34
-----URBAN-----
INTERSTATE (11) 1341253. 22816. 58.79
OTH. PRINC. ART.(14) 565292. 15572. 36.30
MINOR ARTERIAL (16) 400257. 11405. 35.10
CENCON & INTRAS (19) 194541. 12969. 15.00
      SUBTOTAL 2501344. 62762. 39.85
TOTAL        3363292. 88616. 37.95

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Shelby County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 344. 8717. 568. 15. 103.
OTH. PRINC. ART.(2) 168. 3618. 225. 7. 47.
MINOR ARTERIAL (6) 7. 146. 9. 0. 2.
CENCON & INTRAS (9) 91. 1163. 71. 2. 15.
      SUBTOTAL 610. 13644. 873. 25. 166.
-----URBAN-----
INTERSTATE (11) 162. 4123. 268. 7. 48.
OTH. PRINC. ART.(14) 57. 1172. 73. 2. 16.
MINOR ARTERIAL (16) 17. 335. 21. 1. 5.
CENCON & INTRAS (19) 52. 670. 41. 1. 8.
      SUBTOTAL 288. 6299. 403. 12. 77.
---TOTAL---      898. 19944. 1276. 37. 243.
(TONS)           0.99 21.96 1.41 0.04 0.27

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DAILY TRAVEL STATS

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-----
Shelby County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1105366. 19542. 56.56
OTH. PRINC. ART.(2) 505802. 11995. 42.17
MINOR ARTERIAL (6) 20304. 466. 43.55
CENCON & INTRAS (9) 156909. 7845. 20.00
      SUBTOTAL 1788382. 39849. 44.88
-----URBAN-----
INTERSTATE (11) 521600. 9136. 57.09
OTH. PRINC. ART.(14) 168078. 4315. 38.96
MINOR ARTERIAL (16) 48884. 1254. 39.00
CENCON & INTRAS (19) 90550. 5944. 15.23
      SUBTOTAL 829112. 20648. 40.15
TOTAL        2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 484. 12717. 840. 22. 145.
OTH. PRINC. ART.(2) 240. 5287. 328. 10. 68.
MINOR ARTERIAL (6) 28. 566. 35. 1. 8.
CENCON & INTRAS (9) 154. 1973. 120. 4. 25.
      SUBTOTAL 906. 20543. 1324. 37. 246.
-----URBAN-----
OTH. PRINC. ART.(14) 60. 1244. 78. 2. 17.
MINOR ARTERIAL (16) 21. 397. 25. 1. 5.
CENCON & INTRAS (19) 28. 353. 22. 1. 4.
      SUBTOTAL 108. 1994. 124. 4. 26.
---TOTAL---      1014. 22537. 1448. 41. 272.
(TONS)           1.12 24.82 1.59 0.05 0.30

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DAILY TRAVEL STATS

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-----
Boone County
      DAILY      DAILY AVERAGE
HPMS TYPE      VMT      VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1565995. 26027. 60.17
OTH. PRINC. ART.(2) 734961. 16174. 45.44
MINOR ARTERIAL (6) 82601. 2112. 39.12
CENCON & INTRAS (9) 266250. 13312. 20.00
      SUBTOTAL 2649806. 57626. 45.98
-----URBAN-----
OTH. PRINC. ART.(14) 177934. 4309. 41.29
MINOR ARTERIAL (16) 58352. 1828. 31.92
CENCON & INTRAS (19) 47648. 3177. 15.00
      SUBTOTAL 398379. 10945. 36.40
TOTAL          3048185. 68571. 44.45

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Morgan County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 137. 3613. 239. 6. 41.
OTH. PRINC. ART.(2) 470. 11164. 719. 20. 135.
MINOR ARTERIAL (6) 41. 824. 52. 2. 11.
CENCON & INTRAS (9) 193. 2476. 151. 5. 31.
      SUBTOTAL 841. 18076. 1160. 33. 219.
-----URBAN-----
OTH. PRINC. ART.(14) 93. 2167. 138. 4. 27.
MINOR ARTERIAL (16) 12. 242. 15. 0. 3.
CENCON & INTRAS (19) 17. 220. 13. 0. 3.
      SUBTOTAL 122. 2629. 166. 5. 33.
---TOTAL---      964. 20705. 1326. 38. 252.
(TONS)           1.06 22.80 1.46 0.04 0.28

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DAILY TRAVEL STATS

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Morgan County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 443376. 7319. 60.58
OTH. PRINC. ART.(2) 1458345. 29844. 48.87
MINOR ARTERIAL (6) 120722. 3126. 38.62
CENCON & INTRAS (9) 334093. 16705. 20.00
      SUBTOTAL 2356536. 56994. 41.35
-----URBAN-----
OTH. PRINC. ART.(14) 289656. 5996. 48.31
MINOR ARTERIAL (16) 35023. 873. 40.11
CENCON & INTRAS (19) 29725. 1982. 15.00
      SUBTOTAL 354404. 8851. 40.04
TOTAL          2710940. 65844. 41.17

```

 Madison County
 VOC EXHST EXHST TOTAL
 HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
 INTERSTATE (1) 328. 7669. 491. 14. 95.
 OTH. PRINC. ART.(2) 357. 7714. 479. 15. 100.
 MINOR ARTERIAL (6) 3. 65. 4. 0. 1.
 CENCON & INTRAS (9) 186. 2446. 149. 5. 31.
 SUBTOTAL 874. 17895. 1123. 34. 227.
 -----URBAN-----
 INTERSTATE (11) 84. 1977. 126. 4. 24.
 OTH. PRINC. ART.(14) 334. 6705. 421. 14. 90.
 CENCON & INTRAS (19) 158. 2025. 124. 4. 25.
 SUBTOTAL 575. 10707. 670. 21. 140.
 ---TOTAL--- 1449. 28602. 1794. 55. 366.
 (TONS) 1.60 31.50 1.98 0.06 0.40

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 HPMS TYPE VMT VHT SPEED

-----RURAL-----
 INTERSTATE (1) 1025036. 20679. 49.57
 OTH. PRINC. ART.(2) 1078236. 24889. 43.32
 MINOR ARTERIAL (6) 9407. 233. 40.30
 CENCON & INTRAS (9) 330358. 15917. 20.75
 SUBTOTAL 2443038. 61718. 39.58
 -----URBAN-----
 INTERSTATE (11) 263113. 5159. 51.00
 OTH. PRINC. ART.(14) 969213. 25902. 37.42
 CENCON & INTRAS (19) 273280. 18219. 15.00
 SUBTOTAL 1505606. 49280. 30.55
 TOTAL 3948642. 110998. 35.57

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 2062. 51796. 3374. 92. 612.
OTH. PRINC. ART.(2) 2431. 53039. 3326. 102. 674.
MINOR ARTERIAL (6) 499. 9956. 626. 20. 134.
CENCON & INTRAS (9) 1395. 17925. 1093. 34. 224.
      SUBTOTAL 6387. 132715. 8419. 248. 1644.
-----URBAN-----
INTERSTATE (11) 5458. 127514. 8214. 236. 1566.
OTH.FWY & XWAY (12) 793. 17005. 1085. 33. 218.
OTH. PRINC. ART.(14) 4614. 89267. 5610. 180. 1193.
MINOR ARTERIAL (16) 4090. 77703. 4921. 159. 1056.
CENCON & INTRAS (19) 2488. 31849. 1942. 61. 399.
      SUBTOTAL 17442. 343336. 21772. 669. 4433.
---TOTAL---      23830. 476051. 30191. 918. 6077.
(TONS)           26.24 524.28 33.25 1.01 6.69

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 6589517. 118593. 55.56
OTH. PRINC. ART.(2) 7260511. 170899. 42.48
MINOR ARTERIAL (6) 1443586. 38903. 37.11
CENCON & INTRAS (9) 2418949. 120346. 20.10
      SUBTOTAL 17712556. 448741. 39.47
-----URBAN-----
INTERSTATE (11) 17021096. 384991. 44.21
OTH.FWY & XWAY (12) 2348027. 58421. 40.19
OTH. PRINC. ART.(14) 12919400. 418595. 30.86
MINOR ARTERIAL (16) 11382421. 345587. 32.94
CENCON & INTRAS (19) 4297671. 285973. 15.03
      SUBTOTAL 47968584. 1493565. 32.12
TOTAL           65681068. 1942307. 33.82

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:34:08 23MAR09
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:20A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

CBD	(1)	565.	10775.	687.	22.	144.
CDB FRINGE	(2)	5348.	104202.	6611.	209.	1381.
RESIDENTIAL	(3)	5755.	112820.	7157.	216.	1431.
RURAL	(5)	260.	5121.	322.	9.	60.
---TOTAL---		11928.	232917.	14777.	455.	3016.
(TONS)		13.14	256.52	16.27	0.50	3.32

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

FREEWAY	(1)	4232.	97223.	6269.	182.	1209.
EXPRESSWAY	(2)	190.	3644.	231.	7.	49.
2-WAY ART w/prk	(3)	3002.	56179.	3567.	116.	766.
ONE-WAY ARTERIAL	(4)	315.	5963.	379.	12.	82.
CENTROID CONNECT	(5)	1418.	18146.	1107.	35.	227.
2-WAY ART wo/prk	(6)	2649.	49008.	3072.	98.	653.
FREEWAY RAMPS	(7)	122.	2756.	153.	5.	30.
---TOTAL---		11928.	232917.	14777.	455.	3016.
(TONS)		13.14	256.52	16.27	0.50	3.32

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

CBD	(1)	1548989.	48797.	31.74
CDB FRINGE	(2)	14890337.	438842.	33.93
RESIDENTIAL	(3)	15501398.	545041.	28.44
RURAL	(5)	646824.	21991.	29.41
TOTAL		32587566.	1054670.	30.90

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

FREEWAY	(1)	13055722.	279670.	46.68
EXPRESSWAY	(2)	532217.	15891.	33.49
2-WAY ART w/prk	(3)	8251882.	259430.	31.81
ONE-WAY ARTERIAL	(4)	881868.	26521.	33.25
CENTROID CONNECT	(5)	2448456.	162940.	15.03
2-WAY ART wo/prk	(6)	7091007.	270188.	26.24
FREEWAY RAMPS	(7)	326398.	40030.	8.15
TOTAL		32587566.	1054670.	30.90

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 135. 3100. 204. 6. 37.
RESIDENTIAL (3) 1926. 36881. 2322. 73. 481.
SUBURBAN CBD (4) 148. 2815. 176. 6. 37.
RURAL (5) 948. 18101. 1135. 35. 235.
---TOTAL--- 3157. 60896. 3837. 119. 790.
(TONS) 3.48 67.07 4.23 0.13 0.87

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 754. 17610. 1133. 33. 217.
EXPRESSWAY (2) 347. 6875. 433. 14. 93.
2-WAY ART w/prk (3) 581. 11133. 703. 23. 151.
ONE-WAY ARTERIAL (4) 0. 5. 0. 0. 0.
CENTROID CONNECT (5) 666. 8522. 520. 16. 107.
2-WAY ART wo/prk (6) 809. 16751. 1048. 34. 222.
---TOTAL--- 3157. 60896. 3837. 119. 790.
(TONS) 3.48 67.07 4.23 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 397042. 9738. 40.77
RESIDENTIAL (3) 5186715. 159870. 32.44
SUBURBAN CBD (4) 400759. 12504. 32.05
RURAL (5) 2527642. 71264. 35.47
TOTAL 8512153. 253376. 33.59

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 2338668. 48588. 48.13
EXPRESSWAY (2) 1005133. 27171. 36.99
2-WAY ART w/prk (3) 1623207. 48548. 33.44
ONE-WAY ARTERIAL (4) 754. 17. 45.00
CENTROID CONNECT (5) 1149908. 68933. 16.68
2-WAY ART wo/prk (6) 2394486. 60119. 39.83
TOTAL 8512153. 253376. 33.59

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 77. 1463. 92. 3. 20.
RESIDENTIAL (3) 686. 13684. 866. 26. 175.
SUBURBAN CBD (4) 71. 1294. 80. 3. 17.
RURAL (5) 849. 17307. 1088. 33. 218.
---TOTAL--- 1682. 33747. 2126. 65. 429.
(TONS) 1.85 37.17 2.34 0.07 0.47

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 509. 12312. 792. 23. 149.
2-WAY ART w/prk (3) 278. 5560. 350. 11. 75.
CENTROID CONNECT (5) 379. 4846. 296. 9. 61.
2-WAY ART wo/prk (6) 518. 11029. 689. 22. 144.
---TOTAL--- 1682. 33747. 2126. 65. 429.
(TONS) 1.85 37.17 2.34 0.07 0.47

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 213304. 6271. 34.02
RESIDENTIAL (3) 1882025. 54558. 34.50
SUBURBAN CBD (4) 183806. 6076. 30.25
RURAL (5) 2344689. 60034. 39.06
TOTAL 4623824. 126940. 36.43

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1609094. 30586. 52.61
2-WAY ART w/prk (3) 808605. 21483. 37.64
CENTROID CONNECT (5) 653828. 37797. 17.30
2-WAY ART wo/prk (6) 1552297. 37073. 41.87
TOTAL 4623824. 126940. 36.43

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 761. 15454. 979. 30. 198.
RURAL (5) 777. 16181. 1032. 30. 198.
---TOTAL--- 1538. 31635. 2010. 60. 396.
(TONS) 1.69 34.84 2.21 0.07 0.44

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 409. 10774. 713. 19. 123.
2-WAY ART w/prk (3) 186. 3727. 234. 8. 51.
CENTROID CONNECT (5) 326. 4167. 254. 8. 52.
2-WAY ART wo/prk (6) 617. 12966. 809. 26. 170.
---TOTAL--- 1538. 31635. 2010. 60. 396.
(TONS) 1.69 34.84 2.21 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2138665. 58776. 36.39
RURAL (5) 2130415. 54019. 39.44
TOTAL 4269080. 112795. 37.85

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1324434. 21958. 60.32
2-WAY ART w/prk (3) 545427. 14201. 38.41
CENTROID CONNECT (5) 562310. 31658. 17.76
2-WAY ART wo/prk (6) 1836910. 44978. 40.84
TOTAL 4269080. 112795. 37.85

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 854. 18674. 1200. 35. 229.
SUBURBAN CBD (4) 12. 240. 15. 0. 3.
RURAL (5) 334. 6155. 382. 12. 80.
---TOTAL--- 1200. 25069. 1597. 47. 312.
(TONS) 1.32 27.61 1.76 0.05 0.34

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 415. 10760. 705. 19. 124.
2-WAY ART w/prk (3) 188. 3694. 233. 8. 50.
CENTROID CONNECT (5) 216. 2761. 168. 5. 35.
2-WAY ART wo/prk (6) 380. 7854. 491. 16. 103.
---TOTAL--- 1200. 25069. 1597. 47. 312.
(TONS) 1.32 27.61 1.76 0.05 0.34

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2467663. 61804. 39.93
SUBURBAN CBD (4) 33681. 959. 35.13
RURAL (5) 861949. 25853. 33.34
TOTAL 3363292. 88616. 37.95

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1341253. 22816. 58.79
2-WAY ART w/prk (3) 539251. 15095. 35.72
CENTROID CONNECT (5) 372585. 21872. 17.04
2-WAY ART wo/prk (6) 1110203. 28833. 38.50
TOTAL 3363292. 88616. 37.95

Shelby County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 284. 6229. 399. 11. 76.
SUBURBAN CBD (4) 4. 70. 4. 0. 1.
RURAL (5) 610. 13644. 873. 25. 166.
---TOTAL--- 898. 19944. 1276. 37. 243.
(TONS) 0.99 21.96 1.41 0.04 0.27

Shelby County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 506. 12840. 836. 23. 151.
2-WAY ART w/prk (3) 25. 516. 32. 1. 7.
CENTROID CONNECT (5) 142. 1818. 111. 3. 23.
2-WAY ART wo/prk (6) 225. 4770. 297. 9. 62.
---TOTAL--- 898. 19944. 1276. 37. 243.
(TONS) 0.99 21.96 1.41 0.04 0.27

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 819105. 20374. 40.20
SUBURBAN CBD (4) 10008. 274. 36.59
RURAL (5) 1788382. 39849. 44.88
TOTAL 2617494. 60497. 43.27

Shelby County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1626966. 28678. 56.73
2-WAY ART w/prk (3) 73899. 1817. 40.67
CENTROID CONNECT (5) 245266. 13736. 17.86
2-WAY ART wo/prk (6) 671363. 16266. 41.27
TOTAL 2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 106. 1946. 121.  4.  26.
SUBURBAN CBD (4)  2.  49.  3.   0.  1.
RURAL        (5) 906. 20543. 1324. 37. 246.
---TOTAL---    1014. 22537. 1448. 41. 272.
(TONS)         1.12 24.82 1.59 0.05 0.30
-----

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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 484. 12717. 840.  22. 145.
2-WAY ART w/prk (3) 49. 962. 61.  2. 13.
CENTROID CONNECT (5) 182. 2326. 142.  4. 29.
2-WAY ART wo/prk (6) 299. 6532. 406. 13. 85.
---TOTAL---    1014. 22537. 1448. 41. 272.
(TONS)         1.12 24.82 1.59 0.05 0.30
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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 391657. 10767. 36.38
SUBURBAN CBD (4)  6722.  178. 37.70
RURAL        (5) 2649806. 57626. 45.98
TOTAL        3048185. 68571. 44.45
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE  VMT    VHT  SPEED
-----
FREEWAY (1) 1680440. 27659. 60.75
2-WAY ART w/prk (3) 140954. 3939. 35.78
CENTROID CONNECT (5) 313897. 16489. 19.04
2-WAY ART wo/prk (6) 912895. 20483. 44.57
TOTAL        3048185. 68571. 44.45
-----

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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 122. 2619. 165. 5. 33.
SUBURBAN CBD (4) 1. 10. 1. 0. 0.
RURAL (5) 841. 18076. 1160. 33. 219.
---TOTAL--- 964. 20705. 1326. 38. 252.
(TONS) 1.06 22.80 1.46 0.04 0.28

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 335. 8898. 592. 15. 101.
2-WAY ART w/prk (3) 53. 1065. 67. 2. 14.
CENTROID CONNECT (5) 211. 2696. 164. 5. 34.
2-WAY ART wo/prk (6) 365. 8045. 503. 15. 103.
---TOTAL--- 964. 20705. 1326. 38. 252.
(TONS) 1.06 22.80 1.46 0.04 0.28

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 352944. 8811. 40.06
SUBURBAN CBD (4) 1460. 40. 36.65
RURAL (5) 2356536. 56994. 41.35
TOTAL 2710940. 65844. 41.17

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1085993. 17756. 61.16
2-WAY ART w/prk (3) 155745. 3999. 38.94
CENTROID CONNECT (5) 363818. 18686. 19.47
2-WAY ART wo/prk (6) 1105385. 25403. 43.51
TOTAL 2710940. 65844. 41.17

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 554. 10279. 644. 20. 134.
 SUBURBAN CBD (4) 21. 428. 27. 1. 6.
 RURAL (5) 874. 17895. 1123. 34. 227.
 ---TOTAL--- 1449. 28602. 1794. 55. 366.
 (TONS) 1.60 31.50 1.98 0.06 0.40

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 412. 9646. 616. 18. 120.
 2-WAY ART w/prk (3) 3. 65. 4. 0. 1.
 CENTROID CONNECT (5) 338. 4320. 263. 8. 54.
 2-WAY ART wo/prk (6) 697. 14570. 910. 29. 192.
 ---TOTAL--- 1449. 28602. 1794. 55. 366.
 (TONS) 1.60 31.50 1.98 0.06 0.40

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1444306. 47700. 30.28
 SUBURBAN CBD (4) 61300. 1580. 38.80
 RURAL (5) 2443038. 61718. 39.58
 TOTAL 3948642. 110998. 35.57

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1288149. 25838. 49.86
 2-WAY ART w/prk (3) 9407. 233. 40.30
 CENTROID CONNECT (5) 582932. 33701. 17.30
 2-WAY ART wo/prk (6) 2068154. 51226. 40.37
 TOTAL 3948642. 110998. 35.57

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 565. 10775. 687. 22. 144.
CDB FRINGE (2) 5560. 108765. 6906. 217. 1438.
RESIDENTIAL (3) 11047. 218584. 13853. 420. 2783.
SUBURBAN CBD (4) 259. 4906. 306. 10. 65.
RURAL (5) 6399. 133022. 8439. 249. 1647.
---TOTAL--- 23830. 476051. 30191. 918. 6077.
(TONS) 26.24 524.28 33.25 1.01 6.69

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 8056. 192780. 12496. 353. 2339.
EXPRESSWAY (2) 536. 10519. 664. 22. 143.
2-WAY ART w/prk (3) 4365. 82902. 5250. 170. 1127.
ONE-WAY ARTERIAL (4) 315. 5968. 379. 12. 82.
CENTROID CONNECT (5) 3875. 49602. 3025. 94. 621.
2-WAY ART wo/prk (6) 6561. 131526. 8223. 262. 1734.
FREEWAY RAMPS (7) 122. 2756. 153. 5. 30.
---TOTAL--- 23830. 476051. 30191. 918. 6077.
(TONS) 26.24 524.28 33.25 1.01 6.69

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1548989. 48797. 31.74
CDB FRINGE (2) 15500681. 454851. 34.08
RESIDENTIAL (3) 30184476. 967702. 31.19
SUBURBAN CBD (4) 697735. 21611. 32.29
RURAL (5) 17749276. 449348. 39.50
TOTAL 65681068. 1942307. 33.82

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 25350734. 503550. 50.34
EXPRESSWAY (2) 1537350. 43063. 35.70
2-WAY ART w/prk (3) 12148380. 368747. 32.95
ONE-WAY ARTERIAL (4) 882622. 26538. 33.26
CENTROID CONNECT (5) 6692997. 405811. 16.49
2-WAY ART wo/prk (6) 18742682. 554569. 33.80
FREEWAY RAMPS (7) 326398. 40030. 8.15
TOTAL 65681068. 1942307. 33.82

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:33:44 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	2.4250	22.9400	0.7720	0.0141	0.0928
Freeway	5	1.2660	16.5230	0.7140	0.0141	0.0928
Freeway	10	0.7070	11.0160	0.5410	0.0141	0.0928
Freeway	15	0.5360	9.2700	0.4530	0.0141	0.0928
Freeway	20	0.4570	8.8430	0.4440	0.0141	0.0928
Freeway	25	0.4240	8.5850	0.4380	0.0140	0.0928
Freeway	30	0.4000	8.4160	0.4360	0.0140	0.0928
Freeway	35	0.3790	8.4290	0.4360	0.0140	0.0928
Freeway	40	0.3660	8.7490	0.4450	0.0140	0.0928
Freeway	45	0.3560	9.0850	0.4590	0.0140	0.0928
Freeway	50	0.3470	9.4340	0.4780	0.0140	0.0928
Freeway	55	0.3400	9.7970	0.5050	0.0140	0.0928
Freeway	60	0.3360	10.2080	0.5410	0.0140	0.0928
Freeway	65	0.3330	10.6430	0.5890	0.0140	0.0928
Arterial	3	2.4250	22.9400	0.7620	0.0141	0.0928
Arterial	5	1.2660	16.5230	0.7040	0.0141	0.0928
Arterial	10	0.7380	11.6170	0.5860	0.0141	0.0928
Arterial	15	0.5740	9.9740	0.5110	0.0141	0.0928
Arterial	20	0.4750	9.1230	0.4700	0.0141	0.0928
Arterial	25	0.4300	8.6520	0.4450	0.0140	0.0928
Arterial	30	0.4010	8.4280	0.4310	0.0140	0.0928
Arterial	35	0.3790	8.4290	0.4270	0.0140	0.0928
Arterial	40	0.3660	8.7490	0.4350	0.0140	0.0928
Arterial	45	0.3560	9.0850	0.4490	0.0140	0.0928
Arterial	50	0.3470	9.4340	0.4690	0.0140	0.0928
Arterial	55	0.3400	9.7970	0.4950	0.0140	0.0928
Arterial	60	0.3360	10.2080	0.5310	0.0140	0.0928
Arterial	65	0.3330	10.6430	0.5800	0.0140	0.0928
Local	1	0.6130	9.2480	0.4530	0.0141	0.0928
Ramps	1	0.4060	10.6290	0.4770	0.0140	0.0928

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:33:44 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:20A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	104.	3100.	163.	4.	28.
OTH. PRINC. ART.(2)	50.	543.	20.	0.	3.
MINOR ARTERIAL (6)	101.	2210.	111.	4.	23.
CENCON & INTRAS (9)	14.	206.	10.	0.	2.
SUBTOTAL	269.	6059.	305.	9.	57.

-----URBAN-----

INTERSTATE (11)	4571.	121656.	6254.	180.	1195.
OTH.FWY & XWAY (12)	267.	6300.	317.	10.	65.
OTH. PRINC. ART.(14)	3114.	67867.	3403.	108.	719.
MINOR ARTERIAL (16)	3203.	70333.	3554.	114.	755.
CENCON & INTRAS (19)	1487.	22440.	1099.	34.	225.
SUBTOTAL	12642.	288597.	14627.	447.	2959.

---TOTAL---	12910.	294655.	14932.	455.	3016.
(TONS)	14.22	324.51	16.45	0.50	3.32

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	306754.	5442.	56.37
OTH. PRINC. ART.(2)	29030.	6617.	4.39
MINOR ARTERIAL (6)	252088.	8213.	30.69
CENCON & INTRAS (9)	22234.	1112.	20.00
SUBTOTAL	610106.	21384.	28.53

-----URBAN-----

INTERSTATE (11)	12903826.	310713.	41.53
OTH.FWY & XWAY (12)	703760.	19436.	36.21
OTH. PRINC. ART.(14)	7802514.	287573.	27.13
MINOR ARTERIAL (16)	8140808.	253726.	32.09
CENCON & INTRAS (19)	2426546.	161839.	14.99
SUBTOTAL	31977458.	1033286.	30.95
TOTAL	32587566.	1054670.	30.90

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 164. 4444. 225. 7. 44.
OTH. PRINC. ART.(2) 413. 10209. 514. 16. 106.
MINOR ARTERIAL (6) 179. 4221. 211. 7. 45.
CENCON & INTRAS (9) 266. 4012. 197. 6. 40.
SUBTOTAL 1023. 22885. 1147. 35. 235.
-----URBAN-----
INTERSTATE (11) 305. 8363. 431. 12. 81.
OTH.FWY & XWAY (12) 542. 13595. 694. 21. 138.
OTH. PRINC. ART.(14) 515. 12282. 614. 19. 129.
MINOR ARTERIAL (16) 589. 13268. 667. 21. 141.
CENCON & INTRAS (19) 439. 6622. 324. 10. 66.
SUBTOTAL 2389. 54130. 2730. 84. 555.
---TOTAL--- 3411. 77016. 3876. 119. 790.
(TONS) 3.76 84.82 4.27 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 472377. 9522. 49.61
OTH. PRINC. ART.(2) 1138205. 27447. 41.47
MINOR ARTERIAL (6) 483232. 12604. 38.34
CENCON & INTRAS (9) 433828. 21691. 20.00
SUBTOTAL 2527642. 71264. 35.47
-----URBAN-----
INTERSTATE (11) 876538. 17428. 50.30
OTH.FWY & XWAY (12) 1484052. 36315. 40.87
OTH. PRINC. ART.(14) 1390738. 35802. 38.85
MINOR ARTERIAL (16) 1517107. 45326. 33.47
CENCON & INTRAS (19) 716080. 47241. 15.16
SUBTOTAL 5984514. 182112. 32.86
TOTAL 8512153. 253376. 33.59

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 287. 7916. 403. 12. 77.
OTH. PRINC. ART.(2) 339. 8805. 442. 13. 88.
MINOR ARTERIAL (6) 79. 1930. 97. 3. 20.
CENCON & INTRAS (9) 213. 3213. 157. 5. 32.
SUBTOTAL 918. 21864. 1100. 33. 218.
-----URBAN-----
INTERSTATE (11) 178. 4963. 256. 7. 48.
OTH.FWY & XWAY (12) 54. 1635. 87. 2. 15.
OTH. PRINC. ART.(14) 259. 6225. 310. 10. 65.
MINOR ARTERIAL (16) 223. 5129. 258. 8. 55.
CENCON & INTRAS (19) 188. 2833. 139. 4. 28.
SUBTOTAL 901. 20787. 1050. 32. 212.
---TOTAL--- 1818. 42651. 2149. 65. 429.
(TONS) 2.00 46.97 2.37 0.07 0.47

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 831272. 16251. 51.15
OTH. PRINC. ART.(2) 949491. 21116. 44.97
MINOR ARTERIAL (6) 216459. 5294. 40.89
CENCON & INTRAS (9) 347467. 17373. 20.00
SUBTOTAL 2344689. 60034. 39.06
-----URBAN-----
INTERSTATE (11) 515228. 9958. 51.74
OTH.FWY & XWAY (12) 160214. 2670. 60.00
OTH. PRINC. ART.(14) 705186. 17664. 39.92
MINOR ARTERIAL (16) 592146. 16189. 36.58
CENCON & INTRAS (19) 306361. 20424. 15.00
SUBTOTAL 2279135. 66906. 34.06
TOTAL 4623824. 126940. 36.43

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 282. 8626. 461. 12. 78.
OTH. PRINC. ART.(2) 299. 7503. 372. 12. 76.
MINOR ARTERIAL (6) 44. 1034. 52. 2. 11.
CENCON & INTRAS (9) 214. 3235. 158. 5. 32.
SUBTOTAL 839. 20398. 1043. 30. 198.
-----URBAN-----
INTERSTATE (11) 163. 4937. 262. 7. 45.
OTH. PRINC. ART.(14) 313. 7484. 374. 12. 79.
MINOR ARTERIAL (16) 217. 5155. 257. 8. 55.
CENCON & INTRAS (19) 130. 1969. 96. 3. 20.
SUBTOTAL 823. 19546. 989. 30. 198.
---TOTAL--- 1663. 39944. 2032. 60. 396.
(TONS) 1.83 43.99 2.24 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 839342. 13810. 60.78
OTH. PRINC. ART.(2) 821531. 19557. 42.01
MINOR ARTERIAL (6) 119778. 3164. 37.85
CENCON & INTRAS (9) 349765. 17488. 20.00
SUBTOTAL 2130415. 54019. 39.44
-----URBAN-----
INTERSTATE (11) 485093. 8148. 59.53
OTH. PRINC. ART.(14) 850790. 21462. 39.64
MINOR ARTERIAL (16) 589839. 14987. 39.36
CENCON & INTRAS (19) 212943. 14179. 15.02
SUBTOTAL 2138665. 58776. 36.39
TOTAL 4269080. 112795. 37.85

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 199. 4924. 245. 8. 51.
MINOR ARTERIAL ( 6) 52. 1209. 60. 2. 13.
CENCON & INTRAS ( 9) 109. 1647. 81. 3. 17.
      SUBTOTAL 360. 7780. 386. 12. 80.
-----URBAN-----
INTERSTATE (11) 452. 13560. 714. 19. 124.
OTH. PRINC. ART.(14) 214. 5034. 251. 8. 52.
MINOR ARTERIAL (16) 153. 3480. 175. 6. 37.
CENCON & INTRAS (19) 119. 1799. 88. 3. 18.
      SUBTOTAL 938. 23873. 1228. 35. 232.
---TOTAL---      1298. 31652. 1614. 47. 312.
(TONS)           1.43 34.86 1.78 0.05 0.34

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 544911. 13261. 41.09
MINOR ARTERIAL ( 6) 138994. 3690. 37.67
CENCON & INTRAS ( 9) 178044. 8902. 20.00
      SUBTOTAL 861949. 25853. 33.34
-----URBAN-----
INTERSTATE (11) 1341253. 22816. 58.79
OTH. PRINC. ART.(14) 565292. 15572. 36.30
MINOR ARTERIAL (16) 400257. 11405. 35.10
CENCON & INTRAS (19) 194541. 12969. 15.00
      SUBTOTAL 2501344. 62762. 39.85
TOTAL        3363292. 88616. 37.95

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Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 375. 10998. 575. 15. 103.
OTH. PRINC. ART.(2) 183. 4588. 227. 7. 47.
MINOR ARTERIAL (6) 7. 185. 9. 0. 2.
CENCON & INTRAS (9) 96. 1451. 71. 2. 15.
SUBTOTAL 662. 17222. 882. 25. 166.
-----URBAN-----
INTERSTATE (11) 176. 5201. 271. 7. 48.
OTH. PRINC. ART.(14) 62. 1487. 74. 2. 16.
MINOR ARTERIAL (16) 18. 425. 21. 1. 5.
CENCON & INTRAS (19) 55. 836. 41. 1. 8.
SUBTOTAL 312. 7949. 408. 12. 77.
---TOTAL--- 973. 25171. 1290. 37. 243.
(TONS) 1.07 27.72 1.42 0.04 0.27

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 1105366. 19542. 56.56
OTH. PRINC. ART.(2) 505802. 11995. 42.17
MINOR ARTERIAL (6) 20304. 466. 43.55
CENCON & INTRAS (9) 156909. 7845. 20.00
SUBTOTAL 1788382. 39849. 44.88
-----URBAN-----
INTERSTATE (11) 521600. 9136. 57.09
OTH. PRINC. ART.(14) 168078. 4315. 38.96
MINOR ARTERIAL (16) 48884. 1254. 39.00
CENCON & INTRAS (19) 90550. 5944. 15.23
SUBTOTAL 829112. 20648. 40.15
TOTAL 2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC   CO   NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE   (1)  526. 16012.  851.  22. 145.
OTH. PRINC. ART.(2) 261. 6704.  332.  10. 68.
MINOR ARTERIAL (6)  30.  718.   36.   1.  8.
CENCON & INTRAS (9) 163. 2462.  121.   4. 25.
      SUBTOTAL  981. 25897. 1339.  37. 246.
-----URBAN-----
OTH. PRINC. ART.(14) 65. 1579.   79.   2. 17.
MINOR ARTERIAL (16) 23.  504.   25.   1.  5.
CENCON & INTRAS (19) 29.  441.   22.   1.  4.
      SUBTOTAL  117. 2524.  126.   4. 26.
---TOTAL---      1098. 28420. 1464.  41. 272.
(TONS)           1.21 31.30  1.61  0.05 0.30

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT     VHT  SPEED

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-----RURAL-----
INTERSTATE   (1) 1565995.  26027. 60.17
OTH. PRINC. ART.(2) 734961.  16174. 45.44
MINOR ARTERIAL (6)  82601.   2112. 39.12
CENCON & INTRAS (9) 266250.  13312. 20.00
      SUBTOTAL  2649806.  57626. 45.98
-----URBAN-----
OTH. PRINC. ART.(14) 177934.   4309. 41.29
MINOR ARTERIAL (16)  58352.   1828. 31.92
CENCON & INTRAS (19) 47648.   3177. 15.00
      SUBTOTAL   398379.  10945. 36.40
TOTAL         3048185.  68571. 44.45

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Morgan County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 149. 4548. 242. 6. 41.
OTH. PRINC. ART.(2) 511. 14099. 727. 20. 135.
MINOR ARTERIAL (6) 45. 1046. 52. 2. 11.
CENCON & INTRAS (9) 205. 3090. 151. 5. 31.
      SUBTOTAL 909. 22782. 1173. 33. 219.
-----URBAN-----
OTH. PRINC. ART.(14) 101. 2741. 139. 4. 27.
MINOR ARTERIAL (16) 13. 307. 15. 0. 3.
CENCON & INTRAS (19) 18. 275. 13. 0. 3.
      SUBTOTAL 133. 3322. 168. 5. 33.
---TOTAL---      1042. 26105. 1341. 38. 252.
(TONS)           1.15 28.75 1.48 0.04 0.28

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DAILY TRAVEL STATS

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Morgan County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 443376. 7319. 60.58
OTH. PRINC. ART.(2) 1458345. 29844. 48.87
MINOR ARTERIAL (6) 120722. 3126. 38.62
CENCON & INTRAS (9) 334093. 16705. 20.00
      SUBTOTAL 2356536. 56994. 41.35
-----URBAN-----
OTH. PRINC. ART.(14) 289656. 5996. 48.31
MINOR ARTERIAL (16) 35023. 873. 40.11
CENCON & INTRAS (19) 29725. 1982. 15.00
      SUBTOTAL 354404. 8851. 40.04
TOTAL          2710940. 65844. 41.17

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Madison County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 357. 9703. 497. 14. 95.
OTH. PRINC. ART.(2) 388. 9781. 485. 15. 100.
MINOR ARTERIAL (6) 3. 82. 4. 0. 1.
CENCON & INTRAS (9) 197. 3056. 150. 5. 31.
      SUBTOTAL 946. 22622. 1136. 34. 227.
-----URBAN-----
INTERSTATE (11) 91. 2501. 127. 4. 24.
OTH. PRINC. ART.(14) 363. 8509. 426. 14. 90.
CENCON & INTRAS (19) 168. 2527. 124. 4. 25.
      SUBTOTAL 621. 13538. 677. 21. 140.
---TOTAL---      1567. 36160. 1812. 55. 366.
(TONS)           1.73 39.82 2.00 0.06 0.40

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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1025036. 20679. 49.57
OTH. PRINC. ART.(2) 1078236. 24889. 43.32
MINOR ARTERIAL (6) 9407. 233. 40.30
CENCON & INTRAS (9) 330358. 15917. 20.75
      SUBTOTAL 2443038. 61718. 39.58
-----URBAN-----
INTERSTATE (11) 263113. 5159. 51.00
OTH. PRINC. ART.(14) 969213. 25902. 37.42
CENCON & INTRAS (19) 273280. 18219. 15.00
      SUBTOTAL 1505606. 49280. 30.55
TOTAL        3948642. 110998. 35.57

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 2244. 65346. 3417. 92. 612.
OTH. PRINC. ART.(2) 2643. 67155. 3365. 102. 674.
MINOR ARTERIAL (6) 541. 12635. 633. 20. 134.
CENCON & INTRAS (9) 1477. 22371. 1096. 34. 224.
      SUBTOTAL 6905. 167508. 8510. 248. 1644.
-----URBAN-----
INTERSTATE (11) 5936. 161182. 8316. 236. 1566.
OTH.FWY & XWAY (12) 862. 21530. 1097. 33. 218.
OTH. PRINC. ART.(14) 5005. 113208. 5670. 180. 1193.
MINOR ARTERIAL (16) 4437. 98601. 4972. 159. 1056.
CENCON & INTRAS (19) 2634. 39744. 1947. 61. 399.
      SUBTOTAL 18875. 434265. 22002. 669. 4433.
---TOTAL---      25780. 601773. 30512. 918. 6077.
(TONS)           28.39 662.75 33.60 1.01 6.69

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 6589517. 118593. 55.56
OTH. PRINC. ART.(2) 7260511. 170899. 42.48
MINOR ARTERIAL (6) 1443586. 38903. 37.11
CENCON & INTRAS (9) 2418949. 120346. 20.10
      SUBTOTAL 17712556. 448741. 39.47
-----URBAN-----
INTERSTATE (11) 17021096. 384991. 44.21
OTH.FWY & XWAY (12) 2348027. 58421. 40.19
OTH. PRINC. ART.(14) 12919400. 418595. 30.86
MINOR ARTERIAL (16) 11382421. 345587. 32.94
CENCON & INTRAS (19) 4297671. 285973. 15.03
      SUBTOTAL 47968584. 1493565. 32.12
TOTAL           65681068. 1942307. 33.82

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:33:44 23MAR09
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:20A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

CBD	(1)	613.	13657.	694.	22.	144.
CDB FRINGE	(2)	5795.	132033.	6682.	209.	1381.
RESIDENTIAL	(3)	6221.	142521.	7231.	216.	1431.
RURAL	(5)	281.	6444.	325.	9.	60.
---TOTAL---		12910.	294655.	14932.	455.	3016.
(TONS)		14.22	324.51	16.45	0.50	3.32

Marion County

FACILITY		VOC	EXHST	EXHST	TOTAL	
		HC	CO	NOx	PM2.5	NH3

FREEWAY	(1)	4603.	122962.	6345.	182.	1209.
EXPRESSWAY	(2)	206.	4624.	233.	7.	49.
2-WAY ART w/prk	(3)	3256.	71280.	3603.	116.	766.
ONE-WAY ARTERIAL	(4)	342.	7572.	383.	12.	82.
CENTROID CONNECT	(5)	1501.	22643.	1109.	35.	227.
2-WAY ART wo/prk	(6)	2870.	62105.	3103.	98.	653.
FREEWAY RAMPS	(7)	133.	3469.	156.	5.	30.
---TOTAL---		12910.	294655.	14932.	455.	3016.
(TONS)		14.22	324.51	16.45	0.50	3.32

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

CBD	(1)	1548989.	48797.	31.74	
CDB FRINGE	(2)	14890337.	438842.	33.93	
RESIDENTIAL	(3)	15501398.	545041.	28.44	
RURAL	(5)	646824.	21991.	29.41	
TOTAL		32587566.	1054670.	30.90	

Marion County

FACILITY TYPE		DAILY	DAILY	AVERAGE	
		VMT	VHT	SPEED	

FREEWAY	(1)	13055722.	279670.	46.68	
EXPRESSWAY	(2)	532217.	15891.	33.49	
2-WAY ART w/prk	(3)	8251882.	259430.	31.81	
ONE-WAY ARTERIAL	(4)	881868.	26521.	33.25	
CENTROID CONNECT	(5)	2448456.	162940.	15.03	
2-WAY ART wo/prk	(6)	7091007.	270188.	26.24	
FREEWAY RAMPS	(7)	326398.	40030.	8.15	
TOTAL		32587566.	1054670.	30.90	

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 146. 3905. 206. 6. 37.
RESIDENTIAL (3) 2082. 46661. 2346. 73. 481.
SUBURBAN CBD (4) 161. 3564. 178. 6. 37.
RURAL (5) 1023. 22885. 1147. 35. 235.
---TOTAL--- 3411. 77016. 3876. 119. 790.
(TONS) 3.76 84.82 4.27 0.13 0.87

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 820. 22266. 1147. 33. 217.
EXPRESSWAY (2) 377. 8729. 438. 14. 93.
2-WAY ART w/prk (3) 630. 14125. 710. 23. 151.
ONE-WAY ARTERIAL (4) 0. 7. 0. 0. 0.
CENTROID CONNECT (5) 705. 10634. 521. 16. 107.
2-WAY ART wo/prk (6) 880. 21254. 1059. 34. 222.
---TOTAL--- 3411. 77016. 3876. 119. 790.
(TONS) 3.76 84.82 4.27 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 397042. 9738. 40.77
RESIDENTIAL (3) 5186715. 159870. 32.44
SUBURBAN CBD (4) 400759. 12504. 32.05
RURAL (5) 2527642. 71264. 35.47
TOTAL 8512153. 253376. 33.59

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 2338668. 48588. 48.13
EXPRESSWAY (2) 1005133. 27171. 36.99
2-WAY ART w/prk (3) 1623207. 48548. 33.44
ONE-WAY ARTERIAL (4) 754. 17. 45.00
CENTROID CONNECT (5) 1149908. 68933. 16.68
2-WAY ART wo/prk (6) 2394486. 60119. 39.83
TOTAL 8512153. 253376. 33.59

Johnson County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 83. 1855. 93. 3. 20.
RESIDENTIAL (3) 742. 17294. 876. 26. 175.
SUBURBAN CBD (4) 76. 1637. 81. 3. 17.
RURAL (5) 918. 21864. 1100. 33. 218.
---TOTAL--- 1818. 42651. 2149. 65. 429.
(TONS) 2.00 46.97 2.37 0.07 0.47

Johnson County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 553. 15560. 802. 23. 149.
2-WAY ART w/prk (3) 301. 7059. 354. 11. 75.
CENTROID CONNECT (5) 401. 6047. 296. 9. 61.
2-WAY ART wo/prk (6) 563. 13985. 697. 22. 144.
---TOTAL--- 1818. 42651. 2149. 65. 429.
(TONS) 2.00 46.97 2.37 0.07 0.47

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 213304. 6271. 34.02
RESIDENTIAL (3) 1882025. 54558. 34.50
SUBURBAN CBD (4) 183806. 6076. 30.25
RURAL (5) 2344689. 60034. 39.06
TOTAL 4623824. 126940. 36.43

Johnson County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1609094. 30586. 52.61
2-WAY ART w/prk (3) 808605. 21483. 37.64
CENTROID CONNECT (5) 653828. 37797. 17.30
2-WAY ART wo/prk (6) 1552297. 37073. 41.87
TOTAL 4623824. 126940. 36.43

Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 823. 19546. 989. 30. 198.
RURAL (5) 839. 20398. 1043. 30. 198.
---TOTAL--- 1663. 39944. 2032. 60. 396.
(TONS) 1.83 43.99 2.24 0.07 0.44

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 445. 13564. 722. 19. 123.
2-WAY ART w/prk (3) 202. 4734. 237. 8. 51.
CENTROID CONNECT (5) 345. 5200. 255. 8. 52.
2-WAY ART wo/prk (6) 671. 16446. 818. 26. 170.
---TOTAL--- 1663. 39944. 2032. 60. 396.
(TONS) 1.83 43.99 2.24 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2138665. 58776. 36.39
RURAL (5) 2130415. 54019. 39.44
TOTAL 4269080. 112795. 37.85

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1324434. 21958. 60.32
2-WAY ART w/prk (3) 545427. 14201. 38.41
CENTROID CONNECT (5) 562310. 31658. 17.76
2-WAY ART wo/prk (6) 1836910. 44978. 40.84
TOTAL 4269080. 112795. 37.85

Hancock County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 925. 23569. 1213. 35. 229.
SUBURBAN CBD (4) 13. 304. 15. 0. 3.
RURAL (5) 360. 7780. 386. 12. 80.
---TOTAL--- 1298. 31652. 1614. 47. 312.
(TONS) 1.43 34.86 1.78 0.05 0.34

Hancock County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 452. 13560. 714. 19. 124.
2-WAY ART w/prk (3) 204. 4689. 235. 8. 50.
CENTROID CONNECT (5) 228. 3446. 169. 5. 35.
2-WAY ART wo/prk (6) 413. 9957. 496. 16. 103.
---TOTAL--- 1298. 31652. 1614. 47. 312.
(TONS) 1.43 34.86 1.78 0.05 0.34

DAILY TRAVEL STATS

Hancock County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2467663. 61804. 39.93
SUBURBAN CBD (4) 33681. 959. 35.13
RURAL (5) 861949. 25853. 33.34
TOTAL 3363292. 88616. 37.95

Hancock County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1341253. 22816. 58.79
2-WAY ART w/prk (3) 539251. 15095. 35.72
CENTROID CONNECT (5) 372585. 21872. 17.04
2-WAY ART wo/prk (6) 1110203. 28833. 38.50
TOTAL 3363292. 88616. 37.95

Shelby County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 308. 7861. 403. 11. 76.
SUBURBAN CBD (4) 4. 89. 4. 0. 1.
RURAL (5) 662. 17222. 882. 25. 166.
---TOTAL--- 973. 25171. 1290. 37. 243.
(TONS) 1.07 27.72 1.42 0.04 0.27

Shelby County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 551. 16200. 846. 23. 151.
2-WAY ART w/prk (3) 27. 654. 33. 1. 7.
CENTROID CONNECT (5) 150. 2268. 111. 3. 23.
2-WAY ART wo/prk (6) 245. 6049. 300. 9. 62.
---TOTAL--- 973. 25171. 1290. 37. 243.
(TONS) 1.07 27.72 1.42 0.04 0.27

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 819105. 20374. 40.20
SUBURBAN CBD (4) 10008. 274. 36.59
RURAL (5) 1788382. 39849. 44.88
TOTAL 2617494. 60497. 43.27

Shelby County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1626966. 28678. 56.73
2-WAY ART w/prk (3) 73899. 1817. 40.67
CENTROID CONNECT (5) 245266. 13736. 17.86
2-WAY ART wo/prk (6) 671363. 16266. 41.27
TOTAL 2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 114. 2462. 123.  4.  26.
SUBURBAN CBD (4)  3.  62.   3.   0.   1.
RURAL (5) 981. 25897. 1339.  37. 246.
---TOTAL---    1098. 28420. 1464.  41. 272.
(TONS)         1.21 31.30  1.61  0.05 0.30
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Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 526. 16012. 851.  22. 145.
2-WAY ART w/prk (3) 53. 1222. 61.   2. 13.
CENTROID CONNECT (5) 192. 2903. 142.  4. 29.
2-WAY ART wo/prk (6) 326. 8283. 410. 13. 85.
---TOTAL---    1098. 28420. 1464.  41. 272.
(TONS)         1.21 31.30  1.61  0.05 0.30
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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 391657. 10767. 36.38
SUBURBAN CBD (4)  6722.  178. 37.70
RURAL (5) 2649806. 57626. 45.98
TOTAL      3048185. 68571. 44.45
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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1680440. 27659. 60.75
2-WAY ART w/prk (3) 140954. 3939. 35.78
CENTROID CONNECT (5) 313897. 16489. 19.04
2-WAY ART wo/prk (6) 912895. 20483. 44.57
TOTAL      3048185. 68571. 44.45
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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 132. 3309. 167. 5. 33.
SUBURBAN CBD (4) 1. 13. 1. 0. 0.
RURAL (5) 909. 22782. 1173. 33. 219.
---TOTAL--- 1042. 26105. 1341. 38. 252.
(TONS) 1.15 28.75 1.48 0.04 0.28

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 364. 11196. 599. 15. 101.
2-WAY ART w/prk (3) 57. 1353. 68. 2. 14.
CENTROID CONNECT (5) 223. 3365. 165. 5. 34.
2-WAY ART wo/prk (6) 397. 10191. 509. 15. 103.
---TOTAL--- 1042. 26105. 1341. 38. 252.
(TONS) 1.15 28.75 1.48 0.04 0.28

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 352944. 8811. 40.06
SUBURBAN CBD (4) 1460. 40. 36.65
RURAL (5) 2356536. 56994. 41.35
TOTAL 2710940. 65844. 41.17

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1085993. 17756. 61.16
2-WAY ART w/prk (3) 155745. 3999. 38.94
CENTROID CONNECT (5) 363818. 18686. 19.47
2-WAY ART wo/prk (6) 1105385. 25403. 43.51
TOTAL 2710940. 65844. 41.17

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 598. 12995. 650. 20. 134.
 SUBURBAN CBD (4) 23. 543. 27. 1. 6.
 RURAL (5) 946. 22622. 1136. 34. 227.
 ---TOTAL--- 1567. 36160. 1812. 55. 366.
 (TONS) 1.73 39.82 2.00 0.06 0.40

Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 448. 12204. 624. 18. 120.
 2-WAY ART w/prk (3) 3. 82. 4. 0. 1.
 CENTROID CONNECT (5) 357. 5391. 264. 8. 54.
 2-WAY ART wo/prk (6) 758. 18482. 920. 29. 192.
 ---TOTAL--- 1567. 36160. 1812. 55. 366.
 (TONS) 1.73 39.82 2.00 0.06 0.40

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1444306. 47700. 30.28
 SUBURBAN CBD (4) 61300. 1580. 38.80
 RURAL (5) 2443038. 61718. 39.58
 TOTAL 3948642. 110998. 35.57

Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1288149. 25838. 49.86
 2-WAY ART w/prk (3) 9407. 233. 40.30
 CENTROID CONNECT (5) 582932. 33701. 17.30
 2-WAY ART wo/prk (6) 2068154. 51226. 40.37
 TOTAL 3948642. 110998. 35.57

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 613. 13657. 694. 22. 144.
CDB FRINGE (2) 6024. 137794. 6980. 217. 1438.
RESIDENTIAL (3) 11945. 276217. 13998. 420. 2783.
SUBURBAN CBD (4) 280. 6212. 309. 10. 65.
RURAL (5) 6918. 167894. 8530. 249. 1647.
---TOTAL--- 25780. 601773. 30512. 918. 6077.
(TONS) 28.39 662.75 33.60 1.01 6.69

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 8763. 243523. 12652. 353. 2339.
EXPRESSWAY (2) 583. 13354. 671. 22. 143.
2-WAY ART w/prk (3) 4735. 105199. 5305. 170. 1127.
ONE-WAY ARTERIAL (4) 342. 7578. 383. 12. 82.
CENTROID CONNECT (5) 4103. 61897. 3032. 94. 621.
2-WAY ART wo/prk (6) 7122. 166752. 8313. 262. 1734.
FREEWAY RAMPS (7) 133. 3469. 156. 5. 30.
---TOTAL--- 25780. 601773. 30512. 918. 6077.
(TONS) 28.39 662.75 33.60 1.01 6.69

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1548989. 48797. 31.74
CDB FRINGE (2) 15500681. 454851. 34.08
RESIDENTIAL (3) 30184476. 967702. 31.19
SUBURBAN CBD (4) 697735. 21611. 32.29
RURAL (5) 17749276. 449348. 39.50
TOTAL 65681068. 1942307. 33.82

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 25350734. 503550. 50.34
EXPRESSWAY (2) 1537350. 43063. 35.70
2-WAY ART w/prk (3) 12148380. 368747. 32.95
ONE-WAY ARTERIAL (4) 882622. 26538. 33.26
CENTROID CONNECT (5) 6692997. 405811. 16.49
2-WAY ART wo/prk (6) 18742682. 554569. 33.80
FREEWAY RAMPS (7) 326398. 40030. 8.15
TOTAL 65681068. 1942307. 33.82

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:33:19 23MAR09

** EMISSION FACTORS FROM MOBILE 6.2

Road Class	Speed	HC	CO	NOx	PM	NH3
+-----+-----+-----+-----+-----+-----+-----+						
Freeway	3	1.7440	29.7350	0.9440	0.0142	0.0928
Freeway	5	1.0030	22.1300	0.8720	0.0142	0.0928
Freeway	10	0.5940	15.6340	0.6600	0.0142	0.0928
Freeway	15	0.4660	13.5890	0.5520	0.0142	0.0928
Freeway	20	0.4250	13.1040	0.5430	0.0142	0.0928
Freeway	25	0.3990	12.8090	0.5380	0.0142	0.0928
Freeway	30	0.3820	12.6160	0.5370	0.0142	0.0928
Freeway	35	0.3660	12.6370	0.5370	0.0141	0.0928
Freeway	40	0.3580	13.0220	0.5470	0.0141	0.0928
Freeway	45	0.3520	13.4230	0.5630	0.0141	0.0928
Freeway	50	0.3470	13.8400	0.5850	0.0141	0.0928
Freeway	55	0.3420	14.2720	0.6140	0.0141	0.0928
Freeway	60	0.3400	14.7550	0.6530	0.0141	0.0928
Freeway	65	0.3380	15.2630	0.7060	0.0141	0.0928
Arterial	3	1.7440	29.7350	0.9340	0.0142	0.0928
Arterial	5	1.0030	22.1300	0.8610	0.0142	0.0928
Arterial	10	0.6290	16.3500	0.7180	0.0142	0.0928
Arterial	15	0.5080	14.4270	0.6270	0.0142	0.0928
Arterial	20	0.4450	13.4380	0.5780	0.0142	0.0928
Arterial	25	0.4060	12.8890	0.5490	0.0142	0.0928
Arterial	30	0.3830	12.6300	0.5320	0.0142	0.0928
Arterial	35	0.3660	12.6370	0.5270	0.0141	0.0928
Arterial	40	0.3580	13.0220	0.5360	0.0141	0.0928
Arterial	45	0.3520	13.4230	0.5520	0.0141	0.0928
Arterial	50	0.3470	13.8400	0.5740	0.0141	0.0928
Arterial	55	0.3420	14.2720	0.6040	0.0141	0.0928
Arterial	60	0.3400	14.7550	0.6430	0.0141	0.0928
Arterial	65	0.3380	15.2630	0.6950	0.0141	0.0928
Local	1	0.5290	13.5450	0.5540	0.0142	0.0928
Ramps	1	0.3950	15.2730	0.5880	0.0141	0.0928

INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:33:19 23MAR09

EMISSIONS IN KILOGRAMS PER DAY

+++ ALTERNATIVE IS:20A

MOBILE6 INPUT FILE :

Marion County

	VOC	EXHST	EXHST	TOTAL	
HPMS TYPE	HC	CO	NOx	PM2.5	NH3

-----RURAL-----

INTERSTATE (1)	105.	4489.	198.	4.	28.
OTH. PRINC. ART.(2)	37.	718.	25.	0.	3.
MINOR ARTERIAL (6)	97.	3286.	137.	4.	23.
CENCON & INTRAS (9)	12.	301.	12.	0.	2.
SUBTOTAL	251.	8794.	372.	9.	57.

-----URBAN-----

INTERSTATE (11)	4533.	178376.	7629.	182.	1195.
OTH.FWY & XWAY (12)	259.	9331.	390.	10.	65.
OTH. PRINC. ART.(14)	2970.	100918.	4195.	109.	719.
MINOR ARTERIAL (16)	3075.	104889.	4382.	115.	755.
CENCON & INTRAS (19)	1284.	32867.	1344.	34.	225.
SUBTOTAL	12121.	426380.	17940.	451.	2959.

---TOTAL---	12372.	435174.	18312.	459.	3016.
(TONS)	13.63	479.27	20.17	0.51	3.32

DAILY TRAVEL STATS

Marion County

	DAILY	DAILY AVERAGE	
HPMS TYPE	VMT	VHT	SPEED

-----RURAL-----

INTERSTATE (1)	306754.	5442.	56.37
OTH. PRINC. ART.(2)	29030.	6617.	4.39
MINOR ARTERIAL (6)	252088.	8213.	30.69
CENCON & INTRAS (9)	22234.	1112.	20.00
SUBTOTAL	610106.	21384.	28.53

-----URBAN-----

INTERSTATE (11)	12903826.	310713.	41.53
OTH.FWY & XWAY (12)	703760.	19436.	36.21
OTH. PRINC. ART.(14)	7802514.	287573.	27.13
MINOR ARTERIAL (16)	8140808.	253726.	32.09
CENCON & INTRAS (19)	2426546.	161839.	14.99
SUBTOTAL	31977458.	1033286.	30.95
TOTAL	32587566.	1054670.	30.90

Hamilton County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----

INTERSTATE (1) 164. 6522. 276. 7. 44.
OTH. PRINC. ART.(2) 406. 15118. 631. 16. 106.
MINOR ARTERIAL (6) 175. 6283. 260. 7. 45.
CENCON & INTRAS (9) 229. 5876. 240. 6. 40.
SUBTOTAL 974. 33800. 1407. 36. 235.

-----URBAN-----

INTERSTATE (11) 304. 12240. 525. 12. 81.
OTH.FWY & XWAY (12) 532. 20049. 849. 21. 138.
OTH. PRINC. ART.(14) 503. 18244. 755. 20. 129.
MINOR ARTERIAL (16) 568. 19740. 822. 21. 141.
CENCON & INTRAS (19) 379. 9699. 397. 10. 66.
SUBTOTAL 2285. 79972. 3348. 85. 555.

---TOTAL--- 3260. 113772. 4755. 120. 790.
(TONS) 3.59 125.30 5.24 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----

INTERSTATE (1) 472377. 9522. 49.61
OTH. PRINC. ART.(2) 1138205. 27447. 41.47
MINOR ARTERIAL (6) 483232. 12604. 38.34
CENCON & INTRAS (9) 433828. 21691. 20.00
SUBTOTAL 2527642. 71264. 35.47

-----URBAN-----

INTERSTATE (11) 876538. 17428. 50.30
OTH.FWY & XWAY (12) 1484052. 36315. 40.87
OTH. PRINC. ART.(14) 1390738. 35802. 38.85
MINOR ARTERIAL (16) 1517107. 45326. 33.47
CENCON & INTRAS (19) 716080. 47241. 15.16
SUBTOTAL 5984514. 182112. 32.86
TOTAL 8512153. 253376. 33.59

Johnson County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 287. 11593. 493. 12. 77.
OTH. PRINC. ART.(2) 335. 12957. 542. 13. 88.
MINOR ARTERIAL (6) 77. 2861. 119. 3. 20.
CENCON & INTRAS (9) 184. 4706. 192. 5. 32.
SUBTOTAL 884. 32117. 1346. 33. 218.
-----URBAN-----
INTERSTATE (11) 178. 7251. 312. 7. 48.
OTH.FWY & XWAY (12) 54. 2364. 105. 2. 15.
OTH. PRINC. ART.(14) 253. 9249. 382. 10. 65.
MINOR ARTERIAL (16) 216. 7648. 317. 8. 55.
CENCON & INTRAS (19) 162. 4150. 170. 4. 28.
SUBTOTAL 864. 30661. 1286. 32. 212.
---TOTAL--- 1748. 62778. 2631. 65. 429.
(TONS) 1.92 69.14 2.90 0.07 0.47

DAILY TRAVEL STATS

Johnson County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 831272. 16251. 51.15
OTH. PRINC. ART.(2) 949491. 21116. 44.97
MINOR ARTERIAL (6) 216459. 5294. 40.89
CENCON & INTRAS (9) 347467. 17373. 20.00
SUBTOTAL 2344689. 60034. 39.06
-----URBAN-----
INTERSTATE (11) 515228. 9958. 51.74
OTH.FWY & XWAY (12) 160214. 2670. 60.00
OTH. PRINC. ART.(14) 705186. 17664. 39.92
MINOR ARTERIAL (16) 592146. 16189. 36.58
CENCON & INTRAS (19) 306361. 20424. 15.00
SUBTOTAL 2279135. 66906. 34.06
TOTAL 4623824. 126940. 36.43

Hendricks County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 285. 12452. 555. 12. 78.
OTH. PRINC. ART.(2) 294. 11073. 457. 12. 76.
MINOR ARTERIAL (6) 43. 1543. 64. 2. 11.
CENCON & INTRAS (9) 185. 4738. 194. 5. 32.
SUBTOTAL 807. 29806. 1270. 30. 198.
-----URBAN-----
INTERSTATE (11) 165. 7140. 316. 7. 45.
OTH. PRINC. ART.(14) 306. 11126. 460. 12. 79.
MINOR ARTERIAL (16) 212. 7674. 317. 8. 55.
CENCON & INTRAS (19) 113. 2884. 118. 3. 20.
SUBTOTAL 795. 28825. 1211. 30. 198.
---TOTAL--- 1603. 58631. 2481. 60. 396.
(TONS) 1.76 64.57 2.73 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 839342. 13810. 60.78
OTH. PRINC. ART.(2) 821531. 19557. 42.01
MINOR ARTERIAL (6) 119778. 3164. 37.85
CENCON & INTRAS (9) 349765. 17488. 20.00
SUBTOTAL 2130415. 54019. 39.44
-----URBAN-----
INTERSTATE (11) 485093. 8148. 59.53
OTH. PRINC. ART.(14) 850790. 21462. 39.64
MINOR ARTERIAL (16) 589839. 14987. 39.36
CENCON & INTRAS (19) 212943. 14179. 15.02
SUBTOTAL 2138665. 58776. 36.39
TOTAL 4269080. 112795. 37.85

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Hancock County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
OTH. PRINC. ART.( 2) 195. 7281. 301. 8. 51.
MINOR ARTERIAL ( 6) 50. 1802. 74. 2. 13.
CENCON & INTRAS ( 9) 94. 2412. 99. 3. 17.
      SUBTOTAL 340. 11495. 474. 12. 80.
-----URBAN-----
INTERSTATE (11) 457. 19635. 863. 19. 124.
OTH. PRINC. ART.(14) 208. 7464. 310. 8. 52.
MINOR ARTERIAL (16) 148. 5185. 215. 6. 37.
CENCON & INTRAS (19) 103. 2635. 108. 3. 18.
      SUBTOTAL 916. 34919. 1496. 35. 232.
---TOTAL---      1256. 46413. 1970. 47. 312.
(TONS)           1.38 51.12 2.17 0.05 0.34

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DAILY TRAVEL STATS

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Hancock County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT    SPEED

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-----RURAL-----
OTH. PRINC. ART.( 2) 544911. 13261. 41.09
MINOR ARTERIAL ( 6) 138994. 3690. 37.67
CENCON & INTRAS ( 9) 178044. 8902. 20.00
      SUBTOTAL 861949. 25853. 33.34
-----URBAN-----
INTERSTATE (11) 1341253. 22816. 58.79
OTH. PRINC. ART.(14) 565292. 15572. 36.30
MINOR ARTERIAL (16) 400257. 11405. 35.10
CENCON & INTRAS (19) 194541. 12969. 15.00
      SUBTOTAL 2501344. 62762. 39.85
TOTAL        3363292. 88616. 37.95

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Shelby County
VOC EXHST EXHST TOTAL
HPMS TYPE HC CO NOx PM2.5 NH3

-----RURAL-----
INTERSTATE (1) 378. 15973. 697. 16. 103.
OTH. PRINC. ART.(2) 181. 6780. 280. 7. 47.
MINOR ARTERIAL (6) 7. 273. 11. 0. 2.
CENCON & INTRAS (9) 83. 2125. 87. 2. 15.
SUBTOTAL 648. 25151. 1075. 25. 166.
-----URBAN-----
INTERSTATE (11) 178. 7552. 329. 7. 48.
OTH. PRINC. ART.(14) 61. 2208. 91. 2. 16.
MINOR ARTERIAL (16) 18. 633. 26. 1. 5.
CENCON & INTRAS (19) 48. 1226. 50. 1. 8.
SUBTOTAL 304. 11618. 497. 12. 77.
---TOTAL--- 952. 36769. 1571. 37. 243.
(TONS) 1.05 40.49 1.73 0.04 0.27

DAILY TRAVEL STATS

Shelby County
DAILY DAILY AVERAGE
HPMS TYPE VMT VHT SPEED

-----RURAL-----
INTERSTATE (1) 1105366. 19542. 56.56
OTH. PRINC. ART.(2) 505802. 11995. 42.17
MINOR ARTERIAL (6) 20304. 466. 43.55
CENCON & INTRAS (9) 156909. 7845. 20.00
SUBTOTAL 1788382. 39849. 44.88
-----URBAN-----
INTERSTATE (11) 521600. 9136. 57.09
OTH. PRINC. ART.(14) 168078. 4315. 38.96
MINOR ARTERIAL (16) 48884. 1254. 39.00
CENCON & INTRAS (19) 90550. 5944. 15.23
SUBTOTAL 829112. 20648. 40.15
TOTAL 2617494. 60497. 43.27

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Boone County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE   (1)  532. 23137. 1027.  22. 145.
OTH. PRINC. ART.(2) 258. 9897.  408.  10.  68.
MINOR ARTERIAL (6)  30. 1070.  44.   1.   8.
CENCON & INTRAS (9) 141. 3606. 148.   4.  25.
      SUBTOTAL  961. 37711. 1626.  37. 246.
-----URBAN-----
OTH. PRINC. ART.(14) 63. 2344.  97.   3.  17.
MINOR ARTERIAL (16)  22.  751.  31.   1.   5.
CENCON & INTRAS (19)  25.  645.  26.   1.   4.
      SUBTOTAL  111. 3740.  154.   4.  26.
---TOTAL---      1072. 41452. 1780.  41. 272.
(TONS)           1.18 45.65  1.96  0.05 0.30

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DAILY TRAVEL STATS

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Boone County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE   (1) 1565995.  26027. 60.17
OTH. PRINC. ART.(2) 734961.  16174. 45.44
MINOR ARTERIAL (6)  82601.   2112. 39.12
CENCON & INTRAS (9) 266250.  13312. 20.00
      SUBTOTAL  2649806.  57626. 45.98
-----URBAN-----
OTH. PRINC. ART.(14) 177934.   4309. 41.29
MINOR ARTERIAL (16)  58352.   1828. 31.92
CENCON & INTRAS (19)  47648.   3177. 15.00
      SUBTOTAL   398379.  10945. 36.40
TOTAL         3048185.  68571. 44.45

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Morgan County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 151. 6568. 292. 6. 41.
OTH. PRINC. ART.(2) 510. 20580. 885. 21. 135.
MINOR ARTERIAL (6) 43. 1560. 64. 2. 11.
CENCON & INTRAS (9) 177. 4525. 185. 5. 31.
      SUBTOTAL 881. 33233. 1426. 33. 219.
-----URBAN-----
OTH. PRINC. ART.(14) 101. 4017. 170. 4. 27.
MINOR ARTERIAL (16) 13. 457. 19. 0. 3.
CENCON & INTRAS (19) 16. 403. 16. 0. 3.
      SUBTOTAL 129. 4877. 205. 5. 33.
---TOTAL---      1010. 38110. 1631. 38. 252.
(TONS)           1.11 41.97 1.80 0.04 0.28

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DAILY TRAVEL STATS

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Morgan County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 443376. 7319. 60.58
OTH. PRINC. ART.(2) 1458345. 29844. 48.87
MINOR ARTERIAL (6) 120722. 3126. 38.62
CENCON & INTRAS (9) 334093. 16705. 20.00
      SUBTOTAL 2356536. 56994. 41.35
-----URBAN-----
OTH. PRINC. ART.(14) 289656. 5996. 48.31
MINOR ARTERIAL (16) 35023. 873. 40.11
CENCON & INTRAS (19) 29725. 1982. 15.00
      SUBTOTAL 354404. 8851. 40.04
TOTAL          2710940. 65844. 41.17

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Madison County
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----
INTERSTATE (1) 356. 14223. 607. 14. 95.
OTH. PRINC. ART.(2) 382. 14455. 596. 15. 100.
MINOR ARTERIAL (6) 3. 123. 5. 0. 1.
CENCON & INTRAS (9) 171. 4477. 183. 5. 31.
      SUBTOTAL 913. 33277. 1391. 34. 227.
-----URBAN-----
INTERSTATE (11) 91. 3664. 155. 4. 24.
OTH. PRINC. ART.(14) 353. 12654. 524. 14. 90.
CENCON & INTRAS (19) 145. 3702. 151. 4. 25.
      SUBTOTAL 589. 20020. 831. 21. 140.
---TOTAL---      1502. 53297. 2222. 56. 366.
(TONS)           1.65 58.70 2.45 0.06 0.40

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DAILY TRAVEL STATS

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Madison County
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----
INTERSTATE (1) 1025036. 20679. 49.57
OTH. PRINC. ART.(2) 1078236. 24889. 43.32
MINOR ARTERIAL (6) 9407. 233. 40.30
CENCON & INTRAS (9) 330358. 15917. 20.75
      SUBTOTAL 2443038. 61718. 39.58
-----URBAN-----
INTERSTATE (11) 263113. 5159. 51.00
OTH. PRINC. ART.(14) 969213. 25902. 37.42
CENCON & INTRAS (19) 273280. 18219. 15.00
      SUBTOTAL 1505606. 49280. 30.55
TOTAL        3948642. 110998. 35.57

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Total Model Area
      VOC EXHST EXHST TOTAL
HPMS TYPE      HC  CO  NOx PM2.5  NH3

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-----RURAL-----

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INTERSTATE (1) 2258. 94957. 4143. 93. 612.
OTH. PRINC. ART.(2) 2599. 98860. 4124. 102. 674.
MINOR ARTERIAL (6) 526. 18801. 779. 20. 134.
CENCON & INTRAS (9) 1276. 32767. 1340. 34. 224.
      SUBTOTAL 6659. 245384. 10386. 250. 1644.

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-----URBAN-----

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INTERSTATE (11) 5906. 235858. 10131. 238. 1566.
OTH.FWY & XWAY (12) 846. 31744. 1344. 33. 218.
OTH. PRINC. ART.(14) 4818. 168222. 6984. 182. 1193.
MINOR ARTERIAL (16) 4271. 146976. 6130. 161. 1056.
CENCON & INTRAS (19) 2273. 58211. 2381. 61. 399.
      SUBTOTAL 18114. 641010. 26969. 675. 4433.

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---TOTAL---      24773. 886394. 37355. 925. 6077.
(TONS)           27.28 976.21 41.14 1.02 6.69

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DAILY TRAVEL STATS

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Total Model Area
      DAILY    DAILY AVERAGE
HPMS TYPE      VMT    VHT  SPEED

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-----RURAL-----

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INTERSTATE (1) 6589517. 118593. 55.56
OTH. PRINC. ART.(2) 7260511. 170899. 42.48
MINOR ARTERIAL (6) 1443586. 38903. 37.11
CENCON & INTRAS (9) 2418949. 120346. 20.10
      SUBTOTAL 17712556. 448741. 39.47

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-----URBAN-----

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INTERSTATE (11) 17021096. 384991. 44.21
OTH.FWY & XWAY (12) 2348027. 58421. 40.19
OTH. PRINC. ART.(14) 12919400. 418595. 30.86
MINOR ARTERIAL (16) 11382421. 345587. 32.94
CENCON & INTRAS (19) 4297671. 285973. 15.03
      SUBTOTAL 47968584. 1493565. 32.12

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TOTAL           65681068. 1942307. 33.82

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INDIANAPOLIS REGIONAL TRAVEL DEMAND MODEL --
EMISSION MODEL FOR MOBILE 6.2 -- PROGRAM DATE: 12NOV2004
- RUN TIME: 09:33:19 23MAR09
EMISSIONS IN KILOGRAMS PER DAY
+++ ALTERNATIVE IS:20A
MOBILE6 INPUT FILE :

Marion County

AREA TYPE		VOC	EXHST HC	EXHST CO	TOTAL NOx	PM2.5	NH3
CBD	(1)	589.	20283.	854.	22.	144.	
CDB FRINGE	(2)	5580.	195872.	8211.	210.	1381.	
RESIDENTIAL	(3)	5940.	209671.	8852.	218.	1431.	
RURAL	(5)	263.	9349.	396.	9.	60.	
---TOTAL---		12372.	435174.	18312.	459.	3016.	
(TONS)		13.63	479.27	20.17	0.51	3.32	

Marion County

FACILITY		VOC	EXHST HC	EXHST CO	TOTAL NOx	PM2.5	NH3
FREEWAY	(1)	4569.	180321.	7737.	184.	1209.	
EXPRESSWAY	(2)	199.	6889.	287.	8.	49.	
2-WAY ART w/prk	(3)	3125.	106303.	4443.	117.	766.	
ONE-WAY ARTERIAL	(4)	329.	11307.	472.	12.	82.	
CENTROID CONNECT	(5)	1295.	33164.	1356.	35.	227.	
2-WAY ART wo/prk	(6)	2725.	92205.	3824.	99.	653.	
FREEWAY RAMPS	(7)	129.	4985.	192.	5.	30.	
---TOTAL---		12372.	435174.	18312.	459.	3016.	
(TONS)		13.63	479.27	20.17	0.51	3.32	

DAILY TRAVEL STATS

Marion County

AREA TYPE		DAILY VMT	DAILY AVERAGE VHT	SPEED
CBD	(1)	1548989.	48797.	31.74
CDB FRINGE	(2)	14890337.	438842.	33.93
RESIDENTIAL	(3)	15501398.	545041.	28.44
RURAL	(5)	646824.	21991.	29.41
TOTAL		32587566.	1054670.	30.90

Marion County

FACILITY TYPE		DAILY VMT	DAILY AVERAGE VHT	SPEED
FREEWAY	(1)	13055722.	279670.	46.68
EXPRESSWAY	(2)	532217.	15891.	33.49
2-WAY ART w/prk	(3)	8251882.	259430.	31.81
ONE-WAY ARTERIAL	(4)	881868.	26521.	33.25
CENTROID CONNECT	(5)	2448456.	162940.	15.03
2-WAY ART wo/prk	(6)	7091007.	270188.	26.24
FREEWAY RAMPS	(7)	326398.	40030.	8.15
TOTAL		32587566.	1054670.	30.90

Hamilton County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CDB FRINGE (2) 144. 5680. 249. 6. 37.
RESIDENTIAL (3) 1988. 69009. 2880. 73. 481.
SUBURBAN CBD (4) 154. 5283. 219. 6. 37.
RURAL (5) 974. 33800. 1407. 36. 235.
---TOTAL--- 3260. 113772. 4755. 120. 790.
(TONS) 3.59 125.30 5.24 0.13 0.87

Hamilton County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 817. 32600. 1399. 33. 217.
EXPRESSWAY (2) 366. 13009. 540. 14. 93.
2-WAY ART w/prk (3) 607. 21037. 876. 23. 151.
ONE-WAY ARTERIAL (4) 0. 10. 0. 0. 0.
CENTROID CONNECT (5) 608. 15576. 637. 16. 107.
2-WAY ART wo/prk (6) 861. 31540. 1304. 34. 222.
---TOTAL--- 3260. 113772. 4755. 120. 790.
(TONS) 3.59 125.30 5.24 0.13 0.87

DAILY TRAVEL STATS

Hamilton County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CDB FRINGE (2) 397042. 9738. 40.77
RESIDENTIAL (3) 5186715. 159870. 32.44
SUBURBAN CBD (4) 400759. 12504. 32.05
RURAL (5) 2527642. 71264. 35.47
TOTAL 8512153. 253376. 33.59

Hamilton County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 2338668. 48588. 48.13
EXPRESSWAY (2) 1005133. 27171. 36.99
2-WAY ART w/prk (3) 1623207. 48548. 33.44
ONE-WAY ARTERIAL (4) 754. 17. 45.00
CENTROID CONNECT (5) 1149908. 68933. 16.68
2-WAY ART wo/prk (6) 2394486. 60119. 39.83
TOTAL 8512153. 253376. 33.59

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Johnson County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
CDB FRINGE    (2)  80. 2763. 114.   3.  20.
RESIDENTIAL   (3) 712. 25473. 1072.  27. 175.
SUBURBAN CBD  (4)  72. 2425.  100.   3.  17.
RURAL         (5) 884. 32117. 1346.  33. 218.
---TOTAL---    1748. 62778. 2631.  65. 429.
(TONS)         1.92 69.14  2.90  0.07  0.47
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Johnson County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY       (1) 555. 22718. 976.   23. 149.
2-WAY ART w/prk (3) 293. 10509. 436.   11.  75.
CENTROID CONNECT (5) 346. 8856.  362.   9.  61.
2-WAY ART wo/prk (6) 553. 20695. 857.   22. 144.
---TOTAL---    1748. 62778. 2631.  65. 429.
(TONS)         1.92 69.14  2.90  0.07  0.47
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DAILY TRAVEL STATS

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Johnson County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT     VHT  SPEED
-----
CDB FRINGE   (2) 213304.   6271. 34.02
RESIDENTIAL  (3) 1882025.  54558. 34.50
SUBURBAN CBD (4) 183806.   6076. 30.25
RURAL        (5) 2344689.  60034. 39.06
TOTAL        4623824.  126940. 36.43
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Johnson County
      DAILY    DAILY AVERAGE
FACILITY TYPE VMT     VHT  SPEED
-----
FREEWAY       (1) 1609094.   30586. 52.61
2-WAY ART w/prk (3) 808605.   21483. 37.64
CENTROID CONNECT (5) 653828.   37797. 17.30
2-WAY ART wo/prk (6) 1552297.  37073. 41.87
TOTAL         4623824.   126940. 36.43
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Hendricks County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 795. 28825. 1211. 30. 198.
RURAL (5) 807. 29806. 1270. 30. 198.
---TOTAL--- 1603. 58631. 2481. 60. 396.
(TONS) 1.76 64.57 2.73 0.07 0.44

Hendricks County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 450. 19593. 872. 19. 123.
2-WAY ART w/prk (3) 197. 7056. 292. 8. 51.
CENTROID CONNECT (5) 297. 7616. 312. 8. 52.
2-WAY ART wo/prk (6) 658. 24365. 1006. 26. 170.
---TOTAL--- 1603. 58631. 2481. 60. 396.
(TONS) 1.76 64.57 2.73 0.07 0.44

DAILY TRAVEL STATS

Hendricks County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 2138665. 58776. 36.39
RURAL (5) 2130415. 54019. 39.44
TOTAL 4269080. 112795. 37.85

Hendricks County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1324434. 21958. 60.32
2-WAY ART w/prk (3) 545427. 14201. 38.41
CENTROID CONNECT (5) 562310. 31658. 17.76
2-WAY ART wo/prk (6) 1836910. 44978. 40.84
TOTAL 4269080. 112795. 37.85

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Hancock County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 903. 34469. 1478. 35. 229.
SUBURBAN CBD (4) 13. 449. 18. 0. 3.
RURAL (5) 340. 11495. 474. 12. 80.
---TOTAL--- 1256. 46413. 1970. 47. 312.
(TONS) 1.38 51.12 2.17 0.05 0.34
-----

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-----
Hancock County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 457. 19635. 863. 19. 124.
2-WAY ART w/prk (3) 198. 6986. 290. 8. 50.
CENTROID CONNECT (5) 197. 5047. 206. 5. 35.
2-WAY ART wo/prk (6) 404. 14745. 610. 16. 103.
---TOTAL--- 1256. 46413. 1970. 47. 312.
(TONS) 1.38 51.12 2.17 0.05 0.34
-----

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DAILY TRAVEL STATS

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-----
Hancock County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 2467663. 61804. 39.93
SUBURBAN CBD (4) 33681. 959. 35.13
RURAL (5) 861949. 25853. 33.34
TOTAL 3363292. 88616. 37.95
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-----
Hancock County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1341253. 22816. 58.79
2-WAY ART w/prk (3) 539251. 15095. 35.72
CENTROID CONNECT (5) 372585. 21872. 17.04
2-WAY ART wo/prk (6) 1110203. 28833. 38.50
TOTAL 3363292. 88616. 37.95
-----

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Shelby County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 300. 11486. 491. 12. 76.
SUBURBAN CBD (4) 4. 132. 5. 0. 1.
RURAL (5) 648. 25151. 1075. 25. 166.
---TOTAL--- 952. 36769. 1571. 37. 243.
(TONS) 1.05 40.49 1.73 0.04 0.27
-----

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-----
Shelby County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 556. 23525. 1026. 23. 151.
2-WAY ART w/prk (3) 26. 971. 40. 1. 7.
CENTROID CONNECT (5) 130. 3322. 136. 3. 23.
2-WAY ART wo/prk (6) 240. 8950. 369. 9. 62.
---TOTAL--- 952. 36769. 1571. 37. 243.
(TONS) 1.05 40.49 1.73 0.04 0.27
-----

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DAILY TRAVEL STATS

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-----
Shelby County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 819105. 20374. 40.20
SUBURBAN CBD (4) 10008. 274. 36.59
RURAL (5) 1788382. 39849. 44.88
TOTAL 2617494. 60497. 43.27
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Shelby County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1626966. 28678. 56.73
2-WAY ART w/prk (3) 73899. 1817. 40.67
CENTROID CONNECT (5) 245266. 13736. 17.86
2-WAY ART wo/prk (6) 671363. 16266. 41.27
TOTAL 2617494. 60497. 43.27
-----

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-----
Boone County
      VOC EXHST EXHST TOTAL
AREA TYPE      HC  CO  NOx PM2.5  NH3
-----
RESIDENTIAL (3) 108. 3650. 151.  4.  26.
SUBURBAN CBD (4)  2.  91.  4.  0.  1.
RURAL (5) 961. 37711. 1626. 37. 246.
---TOTAL---    1072. 41452. 1780. 41. 272.
(TONS)         1.18 45.65 1.96 0.05 0.30
-----

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-----
Boone County
      VOC EXHST EXHST TOTAL
FACILITY      HC  CO  NOx PM2.5  NH3
-----
FREEWAY (1) 532. 23137. 1027. 22. 145.
2-WAY ART w/prk (3) 52. 1822. 76. 2. 13.
CENTROID CONNECT (5) 166. 4252. 174. 4. 29.
2-WAY ART wo/prk (6) 322. 12241. 504. 13. 85.
---TOTAL---    1072. 41452. 1780. 41. 272.
(TONS)         1.18 45.65 1.96 0.05 0.30
-----

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DAILY TRAVEL STATS

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-----
Boone County
      DAILY    DAILY AVERAGE
AREA TYPE    VMT    VHT  SPEED
-----
RESIDENTIAL (3) 391657. 10767. 36.38
SUBURBAN CBD (4)  6722.  178. 37.70
RURAL (5) 2649806. 57626. 45.98
TOTAL      3048185. 68571. 44.45
-----

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Boone County
      DAILY    DAILY AVERAGE
FACILITY TYPE    VMT    VHT  SPEED
-----
FREEWAY (1) 1680440. 27659. 60.75
2-WAY ART w/prk (3) 140954. 3939. 35.78
CENTROID CONNECT (5) 313897. 16489. 19.04
2-WAY ART wo/prk (6) 912895. 20483. 44.57
TOTAL      3048185. 68571. 44.45
-----

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Morgan County
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 129. 4857. 205. 5. 33.
SUBURBAN CBD (4) 1. 19. 1. 0. 0.
RURAL (5) 881. 33233. 1426. 33. 219.
---TOTAL--- 1010. 38110. 1631. 38. 252.
(TONS) 1.11 41.97 1.80 0.04 0.28

Morgan County
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 369. 16153. 722. 15. 101.
2-WAY ART w/prk (3) 56. 2016. 83. 2. 14.
CENTROID CONNECT (5) 192. 4928. 202. 5. 34.
2-WAY ART wo/prk (6) 393. 15012. 624. 16. 103.
---TOTAL--- 1010. 38110. 1631. 38. 252.
(TONS) 1.11 41.97 1.80 0.04 0.28

DAILY TRAVEL STATS

Morgan County
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 352944. 8811. 40.06
SUBURBAN CBD (4) 1460. 40. 36.65
RURAL (5) 2356536. 56994. 41.35
TOTAL 2710940. 65844. 41.17

Morgan County
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1085993. 17756. 61.16
2-WAY ART w/prk (3) 155745. 3999. 38.94
CENTROID CONNECT (5) 363818. 18686. 19.47
2-WAY ART wo/prk (6) 1105385. 25403. 43.51
TOTAL 2710940. 65844. 41.17

 Madison County
 VOC EXHST EXHST TOTAL
 AREA TYPE HC CO NOx PM2.5 NH3

RESIDENTIAL (3) 566. 19213. 798. 20. 134.
 SUBURBAN CBD (4) 22. 806. 33. 1. 6.
 RURAL (5) 913. 33277. 1391. 34. 227.
 ---TOTAL--- 1502. 53297. 2222. 56. 366.
 (TONS) 1.65 58.70 2.45 0.06 0.40

 Madison County
 VOC EXHST EXHST TOTAL
 FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 447. 17887. 762. 18. 120.
 2-WAY ART w/prk (3) 3. 123. 5. 0. 1.
 CENTROID CONNECT (5) 308. 7896. 323. 8. 54.
 2-WAY ART wo/prk (6) 743. 27391. 1132. 29. 192.
 ---TOTAL--- 1502. 53297. 2222. 56. 366.
 (TONS) 1.65 58.70 2.45 0.06 0.40

DAILY TRAVEL STATS

 Madison County
 DAILY DAILY AVERAGE
 AREA TYPE VMT VHT SPEED

RESIDENTIAL (3) 1444306. 47700. 30.28
 SUBURBAN CBD (4) 61300. 1580. 38.80
 RURAL (5) 2443038. 61718. 39.58
 TOTAL 3948642. 110998. 35.57

 Madison County
 DAILY DAILY AVERAGE
 FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 1288149. 25838. 49.86
 2-WAY ART w/prk (3) 9407. 233. 40.30
 CENTROID CONNECT (5) 582932. 33701. 17.30
 2-WAY ART wo/prk (6) 2068154. 51226. 40.37
 TOTAL 3948642. 110998. 35.57

Total Model Area
VOC EXHST EXHST TOTAL
AREA TYPE HC CO NOx PM2.5 NH3

CBD (1) 589. 20283. 854. 22. 144.
CDB FRINGE (2) 5804. 204314. 8574. 219. 1438.
RESIDENTIAL (3) 11441. 406653. 17137. 424. 2783.
SUBURBAN CBD (4) 267. 9206. 380. 10. 65.
RURAL (5) 6672. 245939. 10410. 251. 1647.
---TOTAL--- 24773. 886394. 37355. 925. 6077.
(TONS) 27.28 976.21 41.14 1.02 6.69

Total Model Area
VOC EXHST EXHST TOTAL
FACILITY HC CO NOx PM2.5 NH3

FREEWAY (1) 8751. 355570. 15383. 356. 2339.
EXPRESSWAY (2) 565. 19898. 827. 22. 143.
2-WAY ART w/prk (3) 4558. 156824. 6541. 172. 1127.
ONE-WAY ARTERIAL (4) 330. 11317. 472. 12. 82.
CENTROID CONNECT (5) 3541. 90657. 3708. 95. 621.
2-WAY ART wo/prk (6) 6899. 247145. 10231. 264. 1734.
FREEWAY RAMPS (7) 129. 4985. 192. 5. 30.
---TOTAL--- 24773. 886394. 37355. 925. 6077.
(TONS) 27.28 976.21 41.14 1.02 6.69

DAILY TRAVEL STATS

Total Model Area
DAILY DAILY AVERAGE
AREA TYPE VMT VHT SPEED

CBD (1) 1548989. 48797. 31.74
CDB FRINGE (2) 15500681. 454851. 34.08
RESIDENTIAL (3) 30184476. 967702. 31.19
SUBURBAN CBD (4) 697735. 21611. 32.29
RURAL (5) 17749276. 449348. 39.50
TOTAL 65681068. 1942307. 33.82

Total Model Area
DAILY DAILY AVERAGE
FACILITY TYPE VMT VHT SPEED

FREEWAY (1) 25350734. 503550. 50.34
EXPRESSWAY (2) 1537350. 43063. 35.70
2-WAY ART w/prk (3) 12148380. 368747. 32.95
ONE-WAY ARTERIAL (4) 882622. 26538. 33.26
CENTROID CONNECT (5) 6692997. 405811. 16.49
2-WAY ART wo/prk (6) 18742682. 554569. 33.80
FREEWAY RAMPS (7) 326398. 40030. 8.15
TOTAL 65681068. 1942307. 33.82

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2020 Autumn

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 33.4 52.1

ABSOLUTE HUMIDITY : 29.9

CLOUD COVER : 0.47

SUNRISE/SUNSET : 7 6

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 12.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2021

EVALUATION MONTH : 1

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 : 2021

EVALUATION MONTH : 1

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 : 2021

EVALUATION MONTH : 1

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 : 2021

EVALUATION MONTH : 1

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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021
EVALUATION MONTH : 1
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 : 2021

EVALUATION MONTH : 1

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 : 2021

EVALUATION MONTH : 1

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

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2020 Summer

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 60.5 82.2

ABSOLUTE HUMIDITY : 56.2

CLOUD COVER : 0.66

SUNRISE/SUNSET : 6 8

REG DIST : c:\I98\m6\IN_grpPM.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\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 : 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 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\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 : 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 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

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2020 Spring

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 50.9 72.7

ABSOLUTE HUMIDITY : 58.2

CLOUD COVER : 0.60

SUNRISE/SUNSET : 6 7

REG DIST :c:\I98\m6\IN_grpPM.d

FUEL RVP : 10.0

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\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 : 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 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\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 : 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 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

MOBILE6 INPUT FILE :

PARTICULATES

>Indy MPO 2020 Winter

RUN DATA

NO REFUELING :

EXPRESS HC AS VOC :

MIN/MAX TEMP : 23.7 41.7

ABSOLUTE HUMIDITY : 22.0

CLOUD COVER : 0.46

SUNRISE/SUNSET : 8 6

REG DIST : c:\I98\m6\IN_grpPM.d

FUEL RVP : 12.0

SCENARIO RECORD : ~ 3.0 NON-RAMP

AVERAGE SPEED : 3.0 NON-RAMP

CALENDAR YEAR : 2020

EVALUATION MONTH : 1

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 : 2020
EVALUATION MONTH : 1
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 : 2020
EVALUATION MONTH : 1
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 : 2020
EVALUATION MONTH : 1
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 : 2020
EVALUATION MONTH : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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 : 1
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

APPENDIX G

Indiana Department of Environmental Management (IDEM) – Area Source Inventory Standard Operating Procedure

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Area Source Inventory
S-006-OAQ-R-MO-08-S-R1
Standard Operating Procedure

Office: Office of Air Quality
Branch: Air Programs Branch
Section: Technical Support and Modeling Section

Revised: 02/27/2008 **Revision Cycle:** 2 years
Effective date: 02/15/07

Scope of operations

This SOP is to identify source categories and develop emissions not calculated in point source inventories. This data is compiled every three years as mandated by EPA.

Scope of applicability

This SOP is for the Senior Environmental Manager and the Environmental Manager in the Emissions Group.

Authorized Signatures

I approve and authorize this Standard Operating Procedure:

Branch Chief

Scott Deloney
Typed/Printed


Signature

3/12/08
Date

Section Chief


Ken Ritter
Typed/Printed


Signature

3/10/08
Date

Section QA Contact

Michele Boner
Typed/Printed


Signature

3/10/08
Date

Branch QA Coordinator


Chris Pedersen
Typed/Printed


Signature

3-10-08
Date

Author

Michele Boner
Typed/Printed


Signature

3/10/08
Date

This Standard Operating Procedure is consistent with agency requirements.


Indiana Department of Environmental Management
Quality Assurance Program
Planning and Assessment

3-17-08
Date

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1. Overview work flow chart

The process described is not part of a larger system and does not need an Overview work flow chart.

2. Definitions

AP-42 – Compilation of Air Pollutant Emission Factors AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources (January 1995) plus Supplements A – F (Updates 2001 – 2004). AP-42 can be obtained at www.epa.gov/ttn/chief/ap42/.

Area Sources - A collection of similar emission units within a geographic area that collectively represent individual sources that are small and numerous and have not been inventoried as a specific point, mobile, or biogenic source.

Authorized - Established by official authority and usage; as with a policy, standard operating procedure (SOP), or quality assurance project plan (QAPP) that is signed and dated.

EIIP (Emission Inventory Improvement Program) -The EIIP is an EPA program established in 1993 to promote the development and use of standard procedures for collecting, calculating, storing, reporting, and sharing air emissions data.

Emission Factors - An emission factor is the estimate of the quantity of pollutant released to the atmosphere (because of some operation or activity such as combustion or industrial production) divided by the level of that activity.

Process - The term “process” used when describing area sources is used to name an operation or activity that produces emissions.

NEI - National Emission Inventory Air Pollutant Emission Trends, U.S. EPA.

Standard Industrial Classification (SIC) Code - A Standard Industrial Classification code from the series of codes devised by the United States Office of Management and Budget (OMB) to classify establishments according to the type of economic activity in which they engage.

Source Classification Code (SCC) - Source Classification Code is a process-level code that describes the equipment or operation emitting pollutants.

3. Roles

Title	# of Staff	Experience	Qualifications	Location
Senior Environmental Manager	1	N/A	MS ACCESS, Emission Inventories and familiarity with the EIIP	Air Programs Branch
Environmental Manager	1	N/A	MS ACCESS, Emission Inventories and familiarity with the EIIP	Air Programs Branch

Responsibilities:

Senior Environmental Manager

Oversees work of the Environmental Manager and ensures that all goals are met. The Senior Environmental Manager also does the final upload to the NEI.

Environmental Manager

The Environmental Manager calculates the Area Source Emissions using the EIIP or other EPA guidance as provided. The Environmental Manager is also responsible for updating the SOP for the Emissions Group.

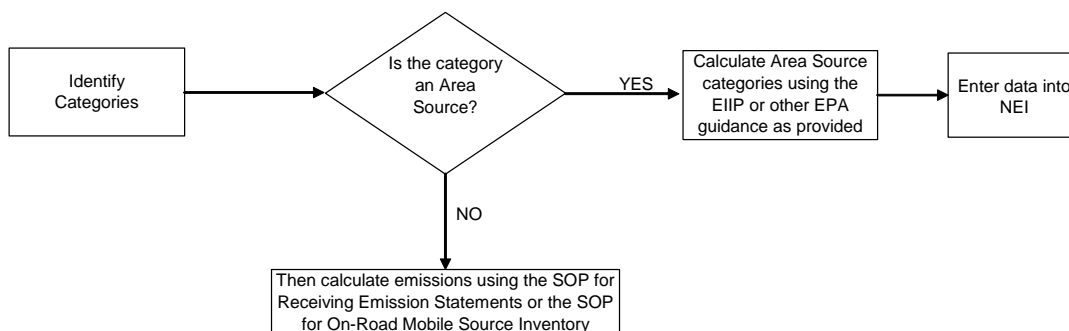
4. Description of equipment, forms, and/or software to be used

Equipment, Form, &/or Software	Who uses it?	Location
AP42	Senior Environmental Manager and Environmental Manager	EPA's website: http://www.epa.gov/ttn/chief/ap42/index.html
Emission Inventory Improvement Program (EIIP)	Senior Environmental Manager and Environmental Manager	EPA's website: http://www.epa.gov/ttn/chief/eiip/techreport/
National Emission Inventory (NEI) Air Pollutant Emission Trends, U.S. EPA	Senior Environmental Manager and Environmental Manager	EPA's website http://www.epa.gov/ttn/chief/trends/

5. Procedure

5.1 Procedural Flowchart

The procedural flowchart below titled "Area Source Inventory" is used to calculate non-point source inventories. This data is compiled every three years as mandated by EPA. The guidance followed is located in the EIIP. Emissions from area sources are calculated at the county level and consist of individual sources that are small, numerous and that have not been inventoried as specific point, mobile, or biogenic sources according to the EIIP.



5.2 Procedure

Category 1: Stationary Fuel Combustion

Sub-Category 1.1: Industrial Fuel Combustion

SCC: 2102002000, 210200400, 2102005000, 2102006000, 2102007000

Follow these steps when calculating emissions from industrial fuel combustion:

1. Obtain statewide fuel consumption for “Other Industrial” for the following fuels: coal, distillate oil, natural gas, and liquefied petroleum gas (LPG). Use the Energy Information Administration’s website at <http://www.eia.doe.gov/> to find fuel consumption.

Note: As of the date of this SOP, the following steps will lead to data for fuel consumption.

- a. Go to <http://www.eia.doe.gov/>
 - b. Click on link for the various types of fuel consumption
 - c. Click on consumption tab for state totals
2. To avoid double calculating the various fuel combustions, subtract reported source totals from the total statewide fuel consumption by querying the total process rates for the various SCC codes using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb. The remaining number is the area source fuel consumption for the state.
 3. To distribute the remaining fuel to the county level, calculate the ratio of county to state employment for the manufacturing sector by dividing the number of Manufacturing Employees for each county by the number of manufacturing employees statewide. Use the County Business Patterns website at <http://www.census.gov/> to find the number of manufacturing employees for each county.

Note: As of the date of this SOP, the following steps will lead to data for Economic Census.

- a. Go to <http://www.census.gov/>
 - b. Click on Economic Census
 - c. Under 2002 Reports by State, use the down arrow key to select Indiana
 - d. Now, select each of the counties to find the county manufacturing employees
 - e. Use the total of employees for manufacturing under the paid employees’ column
4. Multiply the ratio calculated above in step 3 by the area source fuel consumption to distribute the fuel to the county level. The remaining number is the process rate for each county. Multiply the process rate by the appropriate EPA emission factors for the various fuels for industrial manufacturing found in AP-42, Fifth Edition, Volume 1, Chapter 1, External Combustion Sources at <http://www.epa.gov/ttn/chief/ap42/ch01/>.

Sub-Category 1.2: Commercial/Institutional Fuel Combustion

SCC: 2103004000, 2103005000, 2103006000, 2103007000

Follow these steps when calculating emissions from commercial/institutional fuel combustion:

1. Obtain statewide fuel consumption for “Commercial” for the following fuels: distillate fuel oil, liquefied petroleum gas (LPG), natural gas, and residual fuel oil. Use the Energy Information Administration’s website at <http://www.eia.doe.gov/> to find fuel consumption.

Note: Use the steps in sub-category 1.1-1 to navigate through the Energy Information Administration’s website.

2. To avoid double calculating the various fuel combustions, subtract reported source totals from the total statewide fuel consumption by querying the total process rates for the various fuels using the SIC codes greater than 4999 using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb. These are the SIC codes that identify all the commercial/institutional area sources.
3. To distribute the remaining fuel to the county level, calculate the ratio of county to state employment for the commercial/institutional sector by dividing the number of commercial/institutional employees for each county by the number of commercial/institutional employees statewide. Use the County Business Patterns website at <http://www.census.gov/> to find the number of commercial/institutional employees for each county.

Note: Use the steps in sub-category 1.1-3 to navigate through the U.S. Census Bureau's website.

4. Multiply the ratio calculated above in step 3 by the area source fuel consumption to distribute the fuel to the county level. The remaining number is the process rate for each county. Multiply the process rate by the appropriate EPA emission factors for the various fuels for commercial/institutional found in AP-42, Fifth Edition, Volume 1, Chapter 1, External Combustion Sources at <http://www.epa.gov/ttn/chief/ap42/ch01/>.

Sub-Category 1.3: Residential Fuel Combustion

SCC: 2104002000, 2104004000, 2104006000, 2104007000

Follow these steps when calculating emissions from residential fuel combustion:

1. Obtain statewide fuel consumption for "Residential" for the following fuels: coal, distillate oil, natural gas, and liquid petroleum gas. Use the Energy Information Administration's website at <http://www.eia.doe.gov/> to find fuel consumption.

Note: Use the steps in sub-category 1.1-1 to navigate through the Energy Information Administration's website.

2. To distribute residential fuel to the county level, calculate the ratio of county fuel usage to statewide fuel usage using the breakdown of fuels by household per county divided by the breakdown of fuels by household per state using the U.S. Census Bureau's website at <http://www.census.gov/>.

Note: As of the date of this SOP, the following steps will lead to data for breakdown of fuels by household.

- a. Go to <http://www.census.gov/>
 - b. On the left hand side click on "American Fact Finder"
 - c. Using the drop down menu, click on Indiana
 - d. Scroll to "Housing Characteristics" and select "show more"
 - e. On the left hand side, select "change geography (state, county, place...)"
 - f. Using the drop down menu, select county, state, and each county name to obtain housing information
3. Multiply the ratio calculated above in step 3 by the area residential fuel use by state to distribute the fuel to the county level. The remaining number is the process rate for each county for the various fuels. Multiply the process rate by the appropriate EPA emission factors for the various fuels for residential found in AP-42, Fifth Edition, Volume 1, Chapter 1 External Combustion Sources at <http://www.epa.gov/ttn/chief/ap42/ch01/>.

Sub-Category 1.4: Residential Heating Using Wood

SCC: 2104008001, 2104008002, 2104008003, 2104008004, 2104008010, 2104008030, 2104008050

Follow these steps when calculating emissions from residential heating using wood:

1. Obtain statewide wood consumption for “Residential” using the Energy Information Administration’s website at <http://www.eia.doe.gov/>. To convert the statewide wood consumption from cords of wood consumed to tons, multiply the total cords consumed by 1.25.

Note: As of the date of this SOP, the following steps will lead to data for wood consumption.

- a. Go to <http://www.eia.doe.gov/>
 - b. Click on Households, Buildings & Industry
 - c. Under Consumption Summaries, click on “Annual”
 - d. Now, over to the right click on “State Energy”
 - e. Using the drop down menu at the bottom, select “Indiana”
 - f. Under “Consumption” click on the “Residential” document
2. Using the ratio estimates provided by EPA found in the “Documentation For The Final 2002 NONPOINT SECTOR (FEB 06 version) NATIONAL EMISSIONS INVENTORY FOR CRITERIA AND HAZARDOUS AIR POLLUTANTS” at <http://www.epa.gov/ttn/chief/net/2002inventory.html#documentaiton> the number calculated above in step 1 is broken out into three categories (fireplace without inserts, fireplaces with inserts and woodstoves).
 3. To distribute to the county level for the three categories above, calculate a ratio of county to state using the statewide total of households and the county total of households that burn wood found at the U.S. Census Bureau website <http://www.census.gov/>. The remaining number is the process rate for each county. Multiply the process rate by the appropriate EPA emission factors for each of the categories using the EIIP, Volume 3, Chapter 2, Residential Wood Combustion at http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii02_apr2001.pdf.

Note: Use the steps in sub-category 1.3-2 to navigate through the Energy Information Administration’s website.

Category 2: Industrial Processes

Sub-Category 2.1: Bakeries

SCC: 2302050000

Follow these steps when calculating emissions from bakeries:

1. Calculate a per capita consumption factor using the reported weight of yeast–raised product reported under the Bread, Cake, and Frozen Bakery Products from the Economic Census Bureau at <http://www.census.gov/econ/census02/> and the U.S. population at the U.S. Census Bureau at <http://census.gov/>.

Note: As of the date of this SOP, the following steps will lead to data for yeast-raised product.

- a. Go to <http://www.census.gov>
- b. Under Business & Industry open “Economic Census”
- c. Now open “Subject Series”
- d. Under Manufacturing, open the table “Product Summary”
- e. Use the yeast – raised product under Commercial Bakeries (NAICS code 311812) and Frozen cakes, pies, and other pastries manufacturing (NAICS code 311813)

2. Multiply the per capita consumption factor calculated above in step 1 by the Indiana population found at the U.S. Census Bureau at <http://www.census.gov>.
Note: As of the date of this SOP, the following steps will lead to Indiana population data.
 - a. Go to <http://www.census.gov>
 - b. Under Population Finder, use the drop down menu to select Indiana
3. To avoid double calculating the amount consumed for the state, subtract the reported process rate for both the straight-dough and sponge-dough by querying the total process rates for the SCC 30203202 (straight-dough) and SCC 30203201 (sponge-dough) using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb.
4. Multiply the remaining process rate by the straight-dough emission factor of .5 lbs VOC/1,000 pounds baked found in the EIIP, Volume 3, Area Source Method Abstracts: Baked Goods at Commercial/Retail Bakeries at <http://www.epa.gov/ttn/chiep/eiip/techreport/volume03/index.html>.
5. Calculate a per capita factor by dividing the Indiana population found in step 2 by the remaining process rate. Now multiply the per capita factor by each of the county populations to calculate the VOC emissions for each county.

Note: As of the date of this SOP, the following steps will lead to county population data.

- a. Go to <http://www.census.gov>
- b. Under Population Finder, use the drop down menu to select Indiana
- c. Under "View more results", select the county table

Category 3: Solvent Utilization

Sub-Category 3.1: Architectural Coatings

SCC: 2401001000

Follow these steps when calculating emissions from architectural coatings:

1. Calculate an emission factor for architectural coating area sources first by adding all the solvent-based paints together and all the water based paints together using the U.S. Census Bureau's website <http://www.census.gov>. Use Table 1 to select all solvent-based paints and Table 2 to select all water based paints.

Table 1
National Solvent Coating Sales

Solvent Type	1,000 gallons
Exterior Solvent Type	XX
Interior Solvent Type	XX
Architectural Lacquers	XX
Architectural Coating N.S.K.	XX
Total Solvents	XX

Table 2
National Water Based Coating Sales

Water Type	1,000 gallons
Exterior Water Type	XX
Interior Water Type	XX
Total Water Type	XX

Note: As of the date of this SOP, the following steps will lead to architectural coating data.

- a. Go to <http://www.census.gov>
 - b. Under Business & Industry, select more
 - c. Now select Current Industrial Reports (CIR)
 - d. Select CIRs by Subject
 - e. Tab down to find the report "Paints and Allied Products"
2. Now multiply the total national number for solvent-based paints by the average solvent-based coating content number (3.87 lbs VOC/gallon) and the total national number for water-based paints by the average water-based coating content number (0.74 lbs VOC/gal) found in the EIIP, Volume 3, Chapter 3: Architectural Surface Coating at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/archsfc.pdf>.
 3. Add the total solvent-based coatings and the water-based paints together for a total national VOC emission factor from architectural surface coating. Then divide this number by the total national population using the U.S. Census Bureau's website <http://www.census.gov>.
 4. Multiply the number calculated above in step 3 by each of the county populations to calculate the total emissions per county.

Note: Use the steps in sub-category 2.1-5 to navigate through the Census Bureau's website.

Sub-Category 3.2: Automobile Refinishing

SCC: 2401005000

Follow these steps when calculating emissions from automobile refinishing:

1. To avoid double calculating, first query the employees from the reported sources using the SIC 7532- Body Repair and Paint Shops using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb. Subtract this number from the county employment for the same SIC using the U.S. Census Bureau's website <http://www.census.gov>.

Note: As of the date of this SOP, the following steps will lead to county employment data.

- a. Go to <http://www.census.gov>
 - b. Under Business & Industry, select more
 - c. Now select the County Business Patterns report for county
 - d. Select Indiana
 - e. Select each of the counties to find the number of employees for the corresponding SIC or NAICS code
2. Multiply the emission factor 3,519 lbs VOC/employee found in the EIIP, Volume 3, Chapter 13 Auto Body Refinishing at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/archsfc.pdf> and the county employment found above in step 1 to calculate the VOC emissions for each county.

Sub-Category 3.3: Traffic Markings

SCC: 2401008000

Follow these steps when calculating for traffic markings:

1. First calculate the national emissions by finding the amount of sales for traffic marking paints from the U.S. Census Bureau's website <http://www.census.gov> and multiply 3.36 lb VOC/gallon the national average VOC content for water and solvent-based paints from the EIIP, Volume 3, Chapter 14, Traffic Markings at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii14.pdf>.

Note: As of the date of this SOP, the following steps will lead to traffic marking paints.

- a. Go to <http://www.census.gov>
 - b. Under Business & Industry, select more
 - c. Now select Current Industrial Reports (CIR)
 - d. Select CIRs by Subject
 - e. Tab down to find the report "Paints and Allied Products"
 - f. Use the quantity amount in 1000/gallons under "Traffic marking paints (all types: shelf goods and highway department)"
2. Allocate the national emissions calculated above in step 1 to the state level by dividing the amount of money spent in Indiana by the money spent nationally on highway maintenance using the category "Total Disbursements" at the Federal Highway Administration's website <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/sf2.htm>.
 3. Calculate the emission factor for Indiana by dividing the state level emissions by the total number of roadway miles in Indiana, given by contacting the Program Development Division, Highway Statistics, Indiana Department of Transportation or the Office of Air Quality, Technical Support and Modeling Section's mobile inventory preparer.
 4. Multiply the emission factor by the total number of roadway miles in each county using the information supplied from above in step 3.

Sub-Category 3.4: Industrial Surface Coating (employment based emission factor)

SCC: 2401015000, 2401020000, 2401030000, 2401040000, 2401045000, 2401055000, 2401060000, 2401065000, 2401070000, 2401075000, 2401080000

Follow these steps when calculating for industrial surface coating using the employment based emission factor:

1. Calculate an employee based emission factor for the following SIC's in the table below running a query to find the point source employment for each of the SIC's and the reported VOC emissions for each using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb.

SCC	Description	SIC's
2401015000	Factory Finished Wood	2426-2429, 243-245, 2492, 2499
2401020000	Wood Furniture	25
2401030000	Paper Coating	26
2401040000	Metal Cans *	341
2401045000	Metal Coils *	3479
2401055000	Machinery and Equipment	35
2401060000	Appliances *	363
2401065000	Electronic and Other Electrical	3612, 3357
2401070000	New Motor Vehicles **	3711
2401075000	Other Transportation	37 (not 3711, 373)
2401080000	Marine Coatings	373

* Use the National default emission factor because the reporting sources are low.
** Emissions reported in point source

2. Divide the reported VOC emissions for each of the SIC's by the reported employment for each SIC. Use this number for the emission factor.
3. Subtract the number of reported employees found in step 1 from each of the SIC county totals using the U.S. Census Bureau's website <http://www.census.gov>. Use the remaining number for the process rate for each of the counties.

Note: Use the steps in sub-category 3.2-1 to navigate through the County Business Patterns.

4. Multiply the process rates above found for each of the SIC's in step 4 by the emission factors found in step 3 to allocate the emissions to each of the counties.

Sub-Category 3.5: Industrial Surface Coating (default emission factor)

SCC: 2401090000, 2401100000, 2401200000

Follow these steps when calculating emissions from industrial surface coating using the default emission factor:

1. Calculate industrial surface coating emissions using the default emission factor in the EIIP, Volume 3, Chapter 8, Industrial Surface Coating at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii08.pdf> and multiply by the county populations found at the U.S. Census Bureau's website <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through U.S. Census Bureau's website.

SCC's	Description	Default Emission Factor
24-01-090-000	Miscellaneous Manufacturing	0.600 lbs VOC/person
24-01-100-000	Industrial Maintenance Coatings	0.800 lbs VOC/person
24-01-200-000	Other Special Purpose Coatings	0.800 lbs VOC/person

Sub-Category 3.6: Degreasing

SCC: 2415230000, 2415245000, 2415345000, 2415360000

Follow these steps when calculating emissions from degreasing activities:

1. Use the U.S. Census Bureau to find employment numbers for each of the counties for the categories in Table 1 below at <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through U.S. Census Bureau's website.

Source Classification Codes and Industries Associated with Degreasing		
SCC	SIC	Description
2415230000	36	Electronic and other electronic equipment
	25	Furniture and fixtures
	33	Primary metal industries
	34	Fabricated metal products
	35	Industrial machinery and equipment
	37	Transportation equipment
	38	Instruments and related products

2415245000	39	Miscellaneous manufacturing industries
	417	Bus Terminal and Service Facilities
	423	Trucking terminal facilities
	551	New and used car dealers
	552	Used car dealers
	554	Gasoline service stations
	555	Boat dealers
	556	Recreational vehicle dealers
	753	Automotive repair shops
2415345000	25	Furniture and fixtures
	33	Primary metal industries
	34	Fabricated metal products
	35	Industrial machinery and equipment
	36	Electronic and other electronic equipment
	37	Transportation equipment
	38	Instruments and related products
	39	Miscellaneous manufacturing industries
2415345000 cont.		
2415360000	417	Bus Terminal and Service Facilities
	423	Trucking terminal facilities
	551	New and used car dealers
	552	Used car dealers
	554	Gasoline service stations
	555	Boat dealers
	556	Recreational vehicle dealers
	753	Automotive repair shops

- Run a query to find reported employment numbers for each of the categories in the table above using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb.
- Subtract the reported employment from the U.S Census Bureau's numbers to find the process rates for each of the counties.
- Calculate the VOC emissions by multiplying the default emission factor in the EIIP, Volume 3, Chapter 6, Solvent Cleaning at <http://www.epa.gov/ttn/chiep/techreport/volume03/iii06fin.pdf> and the process rate for each of the counties found in step 3.

Sub-Category 3.7: Dry Cleaners

SCC: 2420010370

Follow these steps when calculating emissions from dry cleaners:

- Calculate an emission factor by finding the number of employees state wide and county wide for SIC 7216(Laundry and Garment Services) at the U.S. Census Bureau's website <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through U.S. Census Bureau's website

- Take the sum of the employment from the counties, multiply by 2000, and divide by the statewide total found in step 1. Use this number for the emission factor.
- Calculate the process rate by running a query to find the number of reported employees for SIC 7216 using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb and subtract this number from the county total.
- Multiply the process rate for each of the counties above by the emission factor to calculate for VOC emissions.

Sub-Category 3.8: Graphic Arts

SCC: 2425000000

Follow these steps when calculating emissions from graphic arts activities:

1. Multiply the per capita factor found in the EIIP, Volume 3, Chapter 7, Graphic Arts at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii07.pdf> by the state population from the Census Bureau <http://www.census.gov> to find the total emissions for the state.

Note: Use the steps in 2.1-2 to navigate through the U.S. Census Bureau's website.

2. Develop an emission factor by subtracting point source emissions from the total emissions and dividing by the state population found in step 1.
3. Distribute to the counties by multiplying the emission factor by the population for each county.

Note: Use the steps in 2.1-5 to navigate through the U.S. Census Bureau's website.

Sub-Category 3.9: Rubber and Plastics

SCC: 2430000000

Follow these steps when calculating emissions from rubber and plastics activities:

1. Run a query to find the total of reported emissions and number of reported employees for all SIC's beginning with 30 using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb.
2. Calculate the emission factor by dividing the point source emissions by the reported employees.
3. Subtract the reported employment for SIC's beginning with 30 from total employment for each of the counties.

Note: Use step 3.2-1 to navigate through the County Business Patterns.

4. Multiply the remaining number from above with the emission factor calculated in step 2.

Sub-Category 3.10: Miscellaneous Industrial Adhesives

SCC: 2440020000

Follow these steps when calculating emissions from industrial adhesives activities:

1. Using the guidance in the Air Pollutant Emission Trends at <http://www.epa.gov/ttn/chief/trends>, calculate an emission factor by finding the total National Emissions from Industrial Adhesives and divide by the National Manufacturing Employment from the U.S. Census Bureau's website <http://www.census.gov>.

Note: As of the date of this SOP, the following steps will lead to emission trends data for industrial adhesives.

- a. Go to <http://www.epa.gov/air/airtrends/aqtrnd03/>
- b. Select "Appendix A –Data Tables"
- c. Search for industrial adhesives

Note: As of the date of this SOP, the following steps will lead to National Manufacturing Employment.

- a. Go to <http://www.census.gov>

- b. Select Economic Census
 - c. Now select "Businesses with paid employees"
 - d. Use the manufacturing number under "paid employees"
2. To avoid double calculating, run a query collecting sources reporting adhesives using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb. Subtract the reported employment from the total amount of manufacturing employment. The remaining number is the process rate.

Sub-Category 3.11: Commercial/Consumer Solvents

SCC: 2460100000, 2460200000, 2460400000, 2460500000, 2460600000, 2460800000, 2460900000

Follow these steps when calculating emissions from commercial/consumer solvent usage:

1. Using the EIIP, Volume 3, Chapter 5, Consumer, and Commercial Solvent Use at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii05.pdf>, multiply the per capita factors for each of SCC codes by the population for each county from the U.S. Census Bureau's website <http://www.census.gov>.

Note: Use the steps in 2.1-5 to navigate through the U.S. Census Bureau's website.

Emission Factors for Commercial/Consumer Solvents

Source Classification Codes	Product Category	Per Capita Emission Factor (lb VOC/person)
2460100000	Personal Care Products	2.32
2460200000	Household Products	0.79
2460400000	Automotive Aftermarket Products	1.36
2460500000	Coatings and Related Products	0.95
2460600000	Adhesives and Sealants	0.57
2460800000	FIFRA-Regulated Products	1.78
2460900000	Miscellaneous Products	0.07

Sub-Category 3.12: Asphalt Emulsions

SCC: 2461022000

Follow these steps when calculating emissions from asphalt emulsions:

1. To calculate the process rate, find the number of barrels of asphalt used for the state found at the State Energy Data website at http://www.eia.doe.gov/emeu/states/seds_updates.html.
2. Obtain the amount of roadway miles for the state and county from the Indiana Department of Transportation's, Division of Roadway Management Section.
3. Divide the county roadway miles by the state roadway miles and multiply by the total asphalt usage for the state found above in step 1.
4. Multiply the process rate by the default emission factor in the EIIP, Volume 3, Chapter 17, Asphalt Paving http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii17_apr2001.pdf.

Sub-Category 3.13: Pesticide Usage

SCC: 2461800000

Follow these steps when calculating emissions from pesticide usage:

1. Calculate pesticide usage by using a state specific emission factor. Develop the factor using a methodology that includes the retrieval of information of pesticides used, an emission factor for each pesticide used, a calculation about the inert ingredients in each pesticide, and an estimate of the amount of crop oil concentrate (an adjuvant used for the application of herbicides) used in the state of Indiana.
2. Find the amount of active ingredients for herbicides and insecticides applied to Indiana fields at the Indiana Agricultural Statistics Service at <http://www.usda.gov/nass/pubs/agr02/acro02.htm>.
3. Insert the numbers for both corn and soybeans to the Excel pesticide table found at K:\OAQ_INV\Inv\pesticide.
4. Calculate the emission factor by adding the emissions from crop oil concentrates obtained in the pesticide Excel table, pesticides, and solvent carriers and then divide by the total number of acres of corn and soybeans in Indiana found at the National Agricultural Statistics Services, United States Department of Agriculture <http://www.nass.usda.gov/QuickStats/>.
5. Multiply the emission factor by the county-specific acreage for both corn and soybeans found at the National Agricultural Statistics Services, United States Department of Agriculture <http://www.nass.usda.gov/QuickStats/>.

Category 4: Petroleum Marketing

Follow these steps when calculating emissions for bulk terminals:

Sub-Category 4.1: Bulk Terminals

SCC: 2501050120

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using, the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447.
3. Run a query to find the amount of point source reported gasoline using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb and subtract from the amount sold statewide. Use this to allocate to each county.
4. Allocate the amount gasoline sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
5. EPA guidance suggests that only 25% of all gasoline consumed goes through bulk plants. To calculate process rate, multiply each county by 25% to estimate the amount of fuel transferred through bulk terminals.
6. Multiply process rate by the emission factors in the table below:

Emission Factors	
Source	Emission Factor (lb VOC/1000) gal
Storage Tanks Breathing Loss	5.0
Storage Tank Working Loss - Filling	9.6
Storage Tank Working Loss - Emptying	3.8
Gasoline Loading Racks (Vapor balance controlled)	11.9 (0.3)
Total	30.3

7. Bulk terminals also have controls set forth in the Indiana rule (326 IAC 8-4). This rule says that any source of this type that is new after January 1, 1980 is required to make sure that any transfer between a tank and transport uses a submerged pipe vapor balance system. Using EPA's default rule effectiveness, multiply the number in step 2 by the Control Efficiency (CE) 38%, a Rule Effectiveness (RE) of 80%, and a Rule Penetration (RP) of 13%, i.e. process rate X emission factor X $(1-(CE \times RE \times RP)) \times 1 \text{ ton}/2000 \text{ lb} = \text{VOC tons}$.

Sub-Category 4.2: Portable Fuel Containers

SCC: 2501011011, 2501011012, 2501011016, 2501012011, 2501012012, 2501012016

Follow these steps when calculating emissions for portable fuel containers:

- Calculate the emissions for Commercial and Residential gas cans by using the method developed by the California Environmental Protection Agency's document Public Meeting to Consider Approval of California's Portable Gasoline-Container Emissions Inventory. Use the excel spreadsheet found at K:\OAQ_INV\Inv\Area Source\Gasoline.zip to calculate the emissions for permeation, diurnal, and transport. Both the Spillage and Vapor losses are estimated in the nonroad emissions inventory by EPA models.
- Using the survey results below in Table 1, estimate the number of fuel containers in the state for residential categories. The calculations are set up in an excel spreadsheet at K:\OAQ_INV\Inv\Area Source\Gasoline.zip\250101\GasCans.xls, insert the number of occupied housing, from the U.S. Census Bureau's website at <http://www.census.gov/>, in the space marked "households".

Note: As of the data of this SOP, the following steps will lead to number of households in Indiana.

- Go to <http://www.census.gov/>
- On the left hand side select American Fact finder
- Now select housing
- Under "Occupancy Status", select occupies housing units
- Now use the drop down menu and select Indiana

Table 1

Residential Survey Results	
Percentage of households with at least one gas can	46%
Number of gas cans per household	1.8
Percentage of plastic cans/metal cans	76% / 24%
Weighted average gas can capacity (gal)	2.34
Percentage of gas cans stored with fuel	70%
Weighted average stored fuel volume (% of capacity)	49%

Percentage of all gas cans that are plastic and stored open/closed	23% / 53%
Percentage of all gas cans that are metal and stored open/closed	11% / 13%
Percent of all cans stored open/closed	34% / 66%

- Using the survey results below in Table 2, estimate the number of fuel containers for commercial categories for the state. Do this by using the commercial population based on the number of identified businesses in Table 3 and insert into the excel spreadsheet at K:\OAQ_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls.

Table 2

Commercial Survey Results	
Percentage of businesses with at least one gas can	80%
Number of gas cans per business	6.9
Percentage of plastic cans/metal cans	72% / 28%
Weighted average gas can capacity (gal)	3.43
Weighted average stored fuel volume (% of capacity)	49%
Percentage of all gas cans that are plastic and stored open/closed	39% / 33%
Percentage of all gas cans that are metal and stored open/closed	10% / 18%
Percent of all cans stored open/closed	49% / 51%

Table 3

Category	NAICS
Agricultural	115
Automotive Club and Towing Services	48841
Service Stations	8111
Lawn and Garden Maintenance Services	81141
General Contractors	23
Construction and Rental Yards	5324
Landscaping Services	561730

- Calculate permeable emissions separately for both residential and commercial by using the emission rates given in the California document. Use 1.57g/gal/day for plastic containers and 0.6g/gal/day for metal containers. Insert the numbers for both residential and commercial into the excel spreadsheet at K:\OAQ_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls.
- Calculate diurnal emissions by inserting the numbers for both residential and commercial into the excel spreadsheet at K:\OAQ_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls.
- Calculate transport spillage emissions by inserting the numbers for both residential and commercial into the excel spreadsheet at K:\OAQ_INV\Inv\Area Source\ Gasoline.zip\250101\GasCans.xls

Sub-Category 4.3: Service Station Tank Loading or Tank Truck Unloading (Stage 1)

SCC: 2501060052 (uncontrolled), 2501060053 (controlled)

Follow these steps when calculating emissions from tank loading and unloading

- Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
- Find the amount of gasoline sold statewide and county wide by using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447.

3. Run a query to find the amount of point source reported gasoline using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb and subtract from the amount sold statewide. Use this to allocate to each county.
4. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
5. Find the amount of gasoline tanks from the Underground Storage Tank data files from the Office of Land Quality, Indiana Department of Environmental Management
<http://www.in.gov/idem/programs/land/ust/ust.html>.
6. Now copy the data into an Excel spreadsheet. Filter finding the tanks that have only gasoline. Also filter out the tanks that are “permanently out of service”, “suspended per inspection”, and “unregulated”.
7. Using the Petroleum Sources Applicability Rule 326 IAC 8-4-1, filter out the tanks that are located in Clark, Boone, Dearborn, Elkhart, Floyd, Hamilton, Hancock, Harrison, Hendricks, Johnson, Lake, Marion, Morgan, Porter, Saint Joseph, and Shelby counties.
8. To find the amount of balanced tanks in Indiana, use the total of gasoline tanks found in step 7 and divide by the number of tanks that constructed after 1985 through current year. Use the spreadsheet created in step 7 and filter out the tanks that constructed prior to 1985.
9. Now apply the percentage found in step 8 to the amount of gasoline found in each county.
10. Apply the controlled emission factor to only those counties identified in 326 IAC 8-4, i.e. Boone, Clark, Dearborn, Elkhart, Hamilton, Hancock, Harrison, Hendricks, Johnson, Lake, Marion, Morgan, Porter, Saint Joseph, and Shelby. Use the emission factors for stage 1 controlled and uncontrolled in the EIIP, Volume 3, Chapter 11, Gasoline Marketing (Stage 1 and Stage 2)
http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii11_apr2001.pdf.

Sub-Category 4.4: Vehicle Fueling (Stage II) – Vapor Displacement

SCC: 2501060101 (uncontrolled), 2501060102 (controlled)

Follow these steps when calculating emissions from vehicle fueling – Vapor Displacement:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/hm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447.
3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Calculate an emission factor using the input files supplied from the mobile model. Table 1 and Table 2 show examples of how the emission factors for January and July for the Southern Counties were calculated. By using these two months, the other months are distributed. Use the average of all months for the emission factor for the Southern counties. Use the same methodology for the Northern counties, Central Counties, Clark/Floyd, and Lake/Porter.

Table 1

January Run for Southern Counties

VTYPE	GM_MILE	MILES	MPG	VMT	G/GAL	Month	Factor
1	0.0628	29.4642	23.89	0.463793	0.322719	1	1.01
2	0.1058	35.2923	18.77	0.070491	0.009868	2	1.14
3	0.1058	35.2923	18.77	0.234672	0.109364	3	1.28
4	0.1486	34.0851	14.31	0.071379	0.010834	4	1.41
5	0.1486	34.0851	14.31	0.032825	0.002291	5	1.55
6	0.2152	35.8919	9.88	0.028896	0.001775	6	1.69
7	0.2342	32.3617	9.08	0.001027	2.24E-06	7	1.82
8	0.2465	19.9098	8.63	0.000522	5.8E-07	8	1.69
9	0.2719	27.6093	7.82	0.001164	2.88E-06	9	1.55
10	0.2733	27.4686	7.78	0.002489	1.32E-05	10	1.41
11	0.2972	24.3758	7.15	0.001132	2.72E-06	11	1.28
12	0.3169	23.6257	6.71	0.000004	3.4E-11	12	1.14
25	0.3421	27.2301	6.22	0.000496	5.23E-07	Sum	16.97
					0.456873	g/gal	Average
					1.007222	lb/E3gal	1.41

Table 2
July Run for Southern Counties

VTYPE	GM_MILE	MILES	MPG	VMT	G/GAL
1	0.1144	29.1752	23.9	0.456768	0.570447
2	0.1955	34.8826	18.75	0.071404	0.018689
3	0.1955	34.8826	18.75	0.237712	0.207133
4	0.2882	33.944	14.3	0.072838	0.021865
5	0.2882	33.944	14.3	0.033496	0.004624
6	0.4164	35.8288	9.9	0.029201	0.003515
7	0.4529	32.4716	9.1	0.001038	4.44E-06
8	0.4763	19.6757	8.66	0.000509	1.07E-06
9	0.5264	27.4602	7.83	0.00116	5.55E-06
10	0.5283	27.3328	7.8	0.002482	2.54E-05
11	0.5749	24.2458	7.17	0.001122	5.19E-06
12	0.6128	23.3718	6.73	0.000004	6.6E-11
25	0.6629	27.2301	6.22	0.000485	9.7E-07
					0.826316 g/gal
					1.821697 lb/E3gal

5. Multiply the process rate in step 4 by the emission factor found in the mobile model.

Sub-Category 4.5: Vehicle Fueling (Stage II) – Spillage

SCC: 2501060103

Follow these steps when calculating emissions from vehicle fueling – Spillage:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447.
3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Apply the emission factor 0.7 lb VOC/1000 gallons in AP-42, Fifth Edition, Volume 1, Chapter 5, Petroleum Industry, Transportation, and Marketing of Petroleum Liquids <http://www.epa.gov/ttn/chieff/ap42/ch05/final/c05s02.pdf> to the process rate found in step 4.

Sub-Category 4.6: Underground Tank Breathing

SCC: 2501060200

Follow these steps when calculating emissions from underground tank breathing:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447.

3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Apply the emission factor 1.0 lb VOC/1000 gallons in AP-42, Fifth Edition, Volume 1, Chapter 5, Petroleum Industry, Transportation, and Marketing of Petroleum Liquids <http://www.epa.gov/ttn/chief/ap42/ch05/final/c05s02.pdf> to the process rate found in step 4.

Sub-Category 4.7: Tank Trucks in Transit

SCC: 2505030120

Follow these steps when calculating emissions from tank trucks in transit:

1. Find the amount of gasoline sold in Indiana at the Federal Highway Administration, U.S. Department of Transportation <http://www.fhwa.dot.gov/policy/ohim/hs04/htm/mf21.htm>.
2. Find the amount of gasoline sold statewide and by county using the NAICS code 447-Gasoline Service Station from the U.S. Census Bureau's, Economic Census at http://www.census.gov/econ/census02/data/in/IN000_44.HTM#N447.
3. Allocate the amount sold to each of the counties by dividing the amount of sales in each county by statewide sales and multiplying by the number of gallons sold statewide found above in step 1.
4. Using the guidance in the EIIP, Volume 3, Chapter 11, Gasoline Marketing (Stage I and State II) at http://www.epa.gov/ttn/chief/eiip/techreport/volume03/iii11_apr2001.pdf, multiply the activity rate 1.25 by the amount sold per county found in step 4.
5. Now multiply the process rate found in step 5 by the emission factor .06 lb VOC/gallon transported using the EIIP guidance above.

Category 5: Waste Management Practices

Sub-Category 5.1: Solid Waste Incineration

5.1.1: Industrial Solid Waste Incineration

SCC: 2601010000

Follow these steps when calculating emissions from industrial solid waste incineration:

1. Find the number of manufacturing employees, NAICS code 31, for each county using the County Business Patterns at the U.S. Census Bureau's website <http://censtats.census.gov/cgi-bin/cbpnaic/cbpsel.pl>.

Note: Use the steps in 3.2-1 to navigate through the county business patterns.

2. Multiply the county manufacturing employment by the default fuel-loading factor 420 tons / 1,000 manufacturing employees.
3. Multiply the process rate in step 2 by AP-42, Fifth Edition, Volume 1, Chapter 2-1.12, Solid Waste Disposal at <http://www.epa.gov/ttn/chief/ap42/ch02/index.html>.

5.1.2: Commercial Solid Waste Incineration

SCC: 2601020000

Follow these steps when calculating emissions from commercial solid waste incineration:

1. Find the population for each county at the U.S. Census Bureau's website <http://www.census.gov/>.

Note: Use steps 2.1-5 to navigate through the U.S. Census Bureau's website.
2. Next find the default factor of .65lb/person/day from U.S. EPA Municipal Solid Waste Report <http://www.epa.gov/epaoswer/non-hw/muncpl/msw99.htm>.
3. Find the percent of commercial solid waste from the U.S. EPA Municipal Solid Waste Report above.
4. Now, calculate the process rate for commercial solid waste incineration by multiplying population by the default factor of .65lb/person/day by the percent of commercial solid waste and number of days in a year.
5. Multiply the process rate in step 4 by AP-42, Fifth Edition, Volume 1, Chapter 2-1.12, Solid Waste Disposal at <http://www.epa.gov/ttn/chief/ap42/ch02/index.html>.

5.1.3: Residential Solid Waste Incineration

SCC: 2601030000

Follow these steps when calculating emissions from residential solid waste incineration:

1. Find the population for each county at the U.S. Census Bureau's website <http://www.census.gov/>.

Note: Use step 2.1-5 to navigate through the U.S. Census Bureau's website.
2. Next find the default factor of .65lb/person/day from U.S. EPA Municipal Solid Waste Report <http://www.epa.gov/epaoswer/non-hw/muncpl/msw99.htm>.
3. Find the percent of residential solid waste from the U.S. EPA Municipal Solid Waste Report above.
4. Now, calculate the process rate for residential solid waste incineration by multiplying population by the default factor of .65lb/person/day by the percent of commercial solid waste and number of days in a year.
5. Multiply the process rate in step 4 by AP-42, Fifth Edition, Volume 1, Chapter 2-1.12, Solid Waste Disposal at <http://www.epa.gov/ttn/chief/ap42/ch02/index.html>.

Sub-Category 5.2: Residential Open Burning

5.2.1: Leaf and Brush Burning

SCC: 2610000100 and 2610000400

Follow these steps when calculating emissions from leaf and brush burning:

1. Find a per capita factor for leaf burning and a per capita for brush burning by using the U.S. EPA's Solid Waste Report at <http://www.epa.gov/epaoswer/non-hw/muncpl/msw99.htm>.
2. Allocate the amount burned by adjusting the per capita factor for leaves at 25% and for brush at 25%. Of the total waste generated only 28% burns.

- Once all the percentages from above are calculated, multiply the adjusted per capita factor by the rural population for each county from the U.S. Census Bureau at <http://www.census.gov/>

Note: As of the data of this SOP, the following steps will lead to county rural population.

- Go to <http://www.census.gov/>
 - On the left hand side, select American Fact Finder
 - Select data sets
 - Detailed tables
 - County
 - Indiana
 - All counties
- Use the table below to adjust the amount of waste generated to account for the percentage of forest in each county. The percentages come from a document from the United States Department of Agriculture at http://ncrs.fs.fed.us/pubs/rb/rb_nc253b.pdf.

Percent Forested Acres per County	Adjusted for Yard Waste Generated
< 10%	0% generated
>= 10%, and < 50%	50% generated
>= 50%	100% generated

- Now, multiply the amount of leaves and brush by the emission factors found in AP-42, Fifth Edition, Volume 1, Chapter 2, Solid Waste Disposal, Table 2.5-5, and Table 2.5-6 at <http://www.epa.gov/ttn/chief/ap42/ch02/final/c02s05.pdf>.

5.2.2: Residential Waste Incineration

SCC: 2610030000

Follow these steps when calculating emissions from for residential waste incineration:

- Find a per capita factor for residential waste incineration by using the U.S. EPA's Solid Waste Report at <http://www.epa.gov/epaoswer/non-hw/muncpl/pubs/mswchar05.pdf>.
- Using the Solid Waste Report above, subtract the percentage of recycled and composted material from the per capita factor above.
- Now, subtract the percentages of combustibles i.e. glass, metal, yard trimmings, and other waste.
- Using a document from EPA, it states that only 28% of waste generated by rural population burns and of that percent, 49% is actually combusted. Using this information multiply the per capita factor by 0.28 and then multiply that number by 0.49 actually burned in rural counties.
- Once all the percentages are calculated, multiply the adjusted per capita factor by the rural population for each county from the U.S. Census Bureau at <http://www.census.gov/>.

Note: Use steps 5.2.1-3 to find county rural population.

- Calculate the amount of residential waste by the emission factors in the EIIP, Volume 3, Chapter 16, Open Burning at <http://www.epa.gov/ttn/chief/eiip/techreport/volume03/index.html>.

Sub-Category 5.3: Public Owned Treatment Works (POTW's)

SCC: 2630020000

Follow these steps when calculating emissions from POTW's:

1. To calculate the amount of annual flow for public owned treatment works, obtain the amount of monthly flow rate for each county. This is data is supplied by the Office of Water Quality. To calculate for annual flow multiply the monthly flow by the default of 0.16 that represents the amount of industrial flow.
2. Calculate the process rate above by the emission factors in FIRE 6.25 using the SCC code 2630020000.

Sub-Category 5.4: Treatment, Storage, and Disposal Facilities

SCC: 2640000004

Follow these steps when calculating emissions from treatment, storage, and disposal facilities:

1. Obtain a list of treatment facilities and the amount of ignitable waste from each facility from IDEM's Office of Land Quality.
2. Using the list of facilities from step 1, run a query using the ACCESS data tables at K:\OAQ_INV\Steptool\Stptl_02.mdb to obtain the amount of ignitable waste reported to IDEM's Office of Air Quality.
3. Compare the two lists obtained in step 1 and step 2, for each facility subtract any quantity reported to OAQ from the quantity reported to OLQ. Do this in order to avoid double counting quantities reported to both offices. Combine the quantities reported from facilities within the same counties. Use these quantities as the process rate for each county.
4. Multiply the process rate above with the combined emission factor in the table below:

Emission Source	Emission Factor in AP-42 (lb VOC/Ton)	Emission Factor Used (lb VOC/Ton)
Storage Tank Vent	0.004-0.09	0.09
Spillage (filling)	0.20	0.20
Loading (filling)	0.00024-1.42	1.42
Spillage (emptying)	0.20	0.20
Loading (emptying)	0.00024-1.42	1.42
Combined Emission Factor		3.33

Category 6: Submit Data to EPA

Submit data in a format that is acceptable to EPA. At the present time the format is the National Emission Inventory (NEI).

6. Standards and checklists

The Emission Reporting program does not have any checklist for the Area Source Inventory at this time. The Emission Group does this electronically through an excel spreadsheet that is created when needed.

7. Records Management

The Area Source Inventory files are kept electronically at K:\OAQ_INV\Inv\Area Source.

The Branch Contact for the Air Programs Branch and the Section contact for the Technical Support and Modeling Section will keep copies of the SOPs for the Technical Support and Modeling Section to be referenced as needed. An electronic copy will also be available on K:\OAQ_INV\SOPs.

8. Quality Assurance / Quality Control

Comparisons are made against the emissions estimates made by The U.S. EPA in the NEI.

9. Continuous Improvement Cycle

A periodic review will be completed per updates and changes made to the EIIP.

10. References

The Area Source Inventory is a requirement of 40 CFR Part 51 Subpart A - Emission Inventory Reporting Requirements.

11. History of Revisions

Date Month/day/year	Revision Number	Description
02/27/2008	1	Revised using new SOP template.

12. Appendices

None