APPENDIX B

Historic and Projected Emission Inventories

Lake and Porter Counties, Indiana

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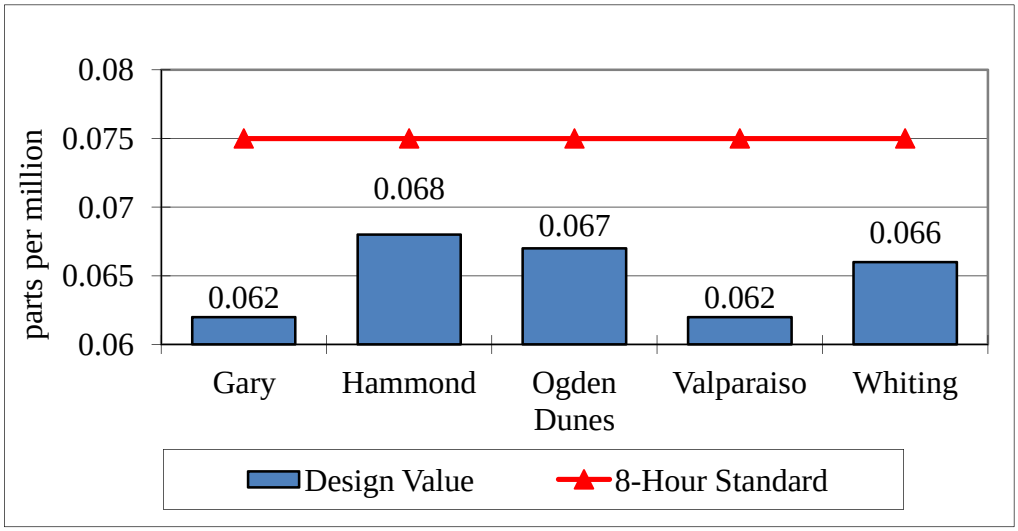
Fourth Highest Daily Values

Site	2006	2007	2008	2009	2010	2011	06-08 avg	07-09 avg	08-10 avg	09-11 avg
Gary	0.073	0.085	0.062	0.058	0.064	0.066	0.073	0.068	0.061	0.062
Hammond	0.075	0.077	0.068	0.065	0.069	0.072	0.073	0.070	0.067	0.068
Ogden Dunes	0.070	0.084	0.069	0.067	0.067	0.068	0.074	0.073	0.067	0.067
Valparaiso	0.071	0.080	0.061	0.064	0.061	0.063	0.070	0.068	0.062	0.062
Whiting	0.081	0.088	0.062	0.062	0.069	0.069	0.077	0.070	0.064	0.066

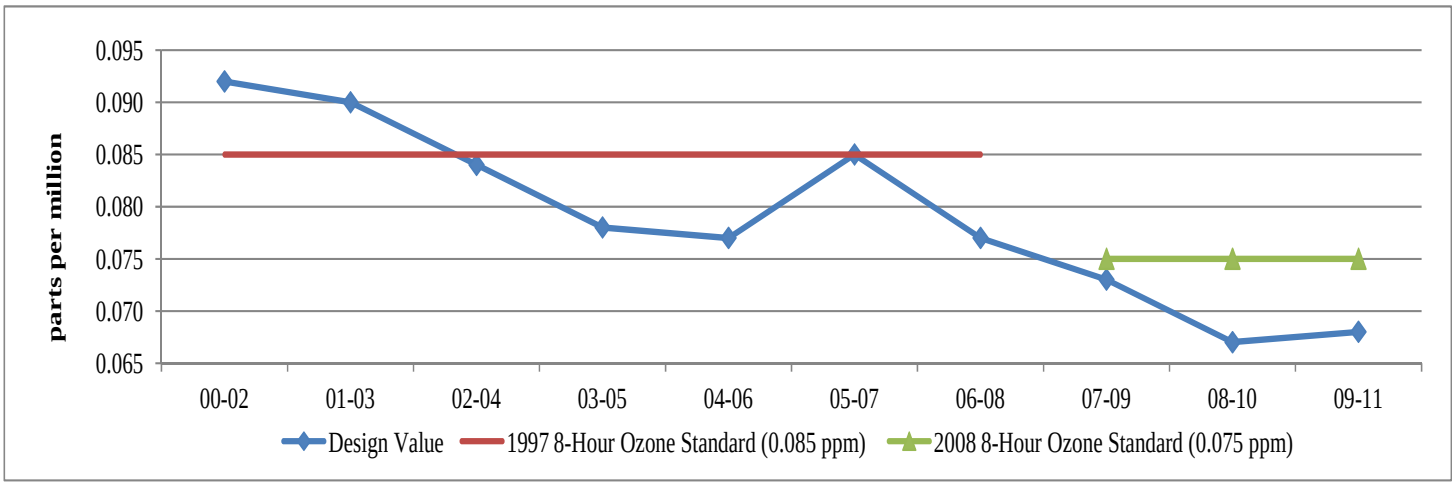
Graph 3.1 Design Values for Lake and Porter Counties, Indiana, 2009-2011



Historic Ozone Design Values

	Gary	Hammond	Ogden Dunes	Valparaiso	Whiting
98-00	0.084	0.088	0.091	0.086	n/a
99-01	0.084	0.090	0.09	0.083	n/a
00-02	0.084	0.092	0.09	0.086	n/a
01-03	0.084	0.090	0.087	0.086	n/a
02-04	0.078	0.083	0.082	0.084	n/a
03-05	0.076	0.078	0.078	0.077	n/a
04-06	0.075	0.076	0.076	0.073	0.077
05-07	0.082	0.079	0.081	0.076	0.085
06-08	0.073	0.073	0.074	0.070	0.077

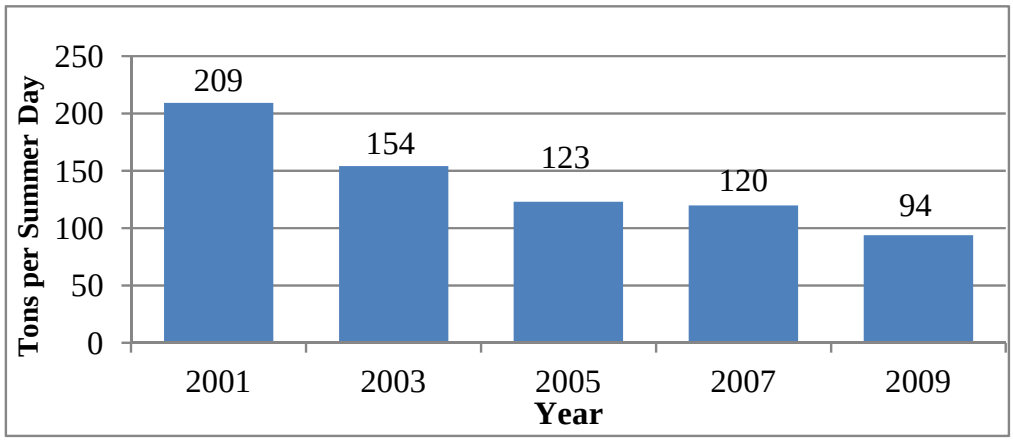
Graph 3.2 Design Values for Lake and Porter Counties, Indiana 2000-2011



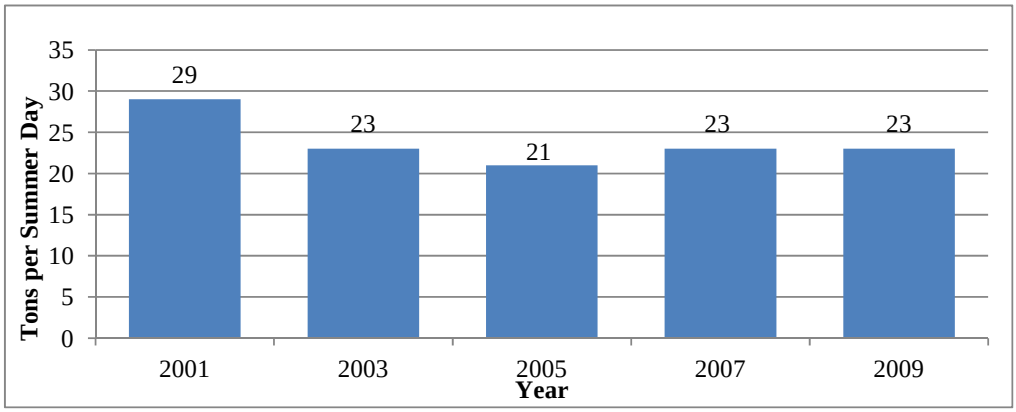
Emission Inventories for Lake and Porter Counties, Indiana

NO_x and VOC Point Source Trends Lake and Porter Counties, Indiana (Tons per Summer Day)		
Year	**NO_x**	**VOC**
2001	209	29
2003	154	23
2005	123	21
2007	120	23
2009	94	23

Graph 4.1 Lake and Porter Counties, Indiana NO_x Point Source Emissions 2001-2009



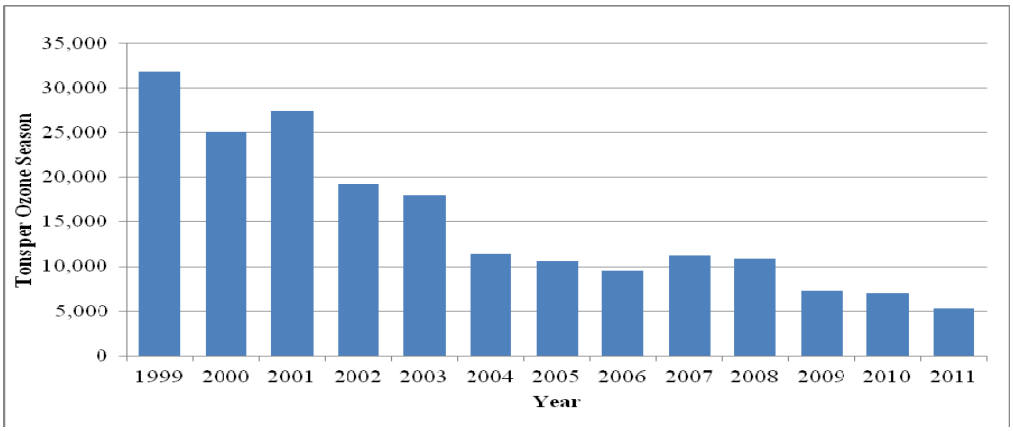
Graph 4.2 Lake and Porter Counties, Indiana VOC Point Source Emissions 2001-2009



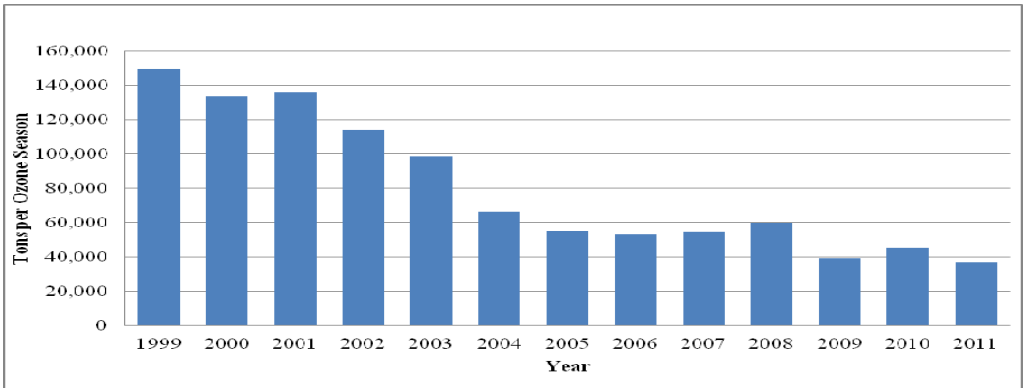
NO_x Emissions – NW Indiana Electric Generating Units 1999-2011 (Tons per Ozone Season)	
1999	31,815
2000	25,028
2001	27,394
2002	19,260
2003	17,966
2004	11,419
2005	10,537
2006	9,567
2007	11,230
2008	10,833
2009	7,305
2010	7,030
2011	5,300

NO_x Emissions – Indiana Electric Generating Units 1999-2011 (Tons per Ozone Season)	
1999	149,660
2000	133,880
2001	136,121
2002	114,083
2003	98,482
2004	66,568
2005	55,390
2006	53,768
2007	54,816
2008	59,967
2009	39,457
2010	45,687
2011	37,068

Graph 4.3 NO_x Emissions - Northwest Indiana Electric Generating Units. 1999-2011

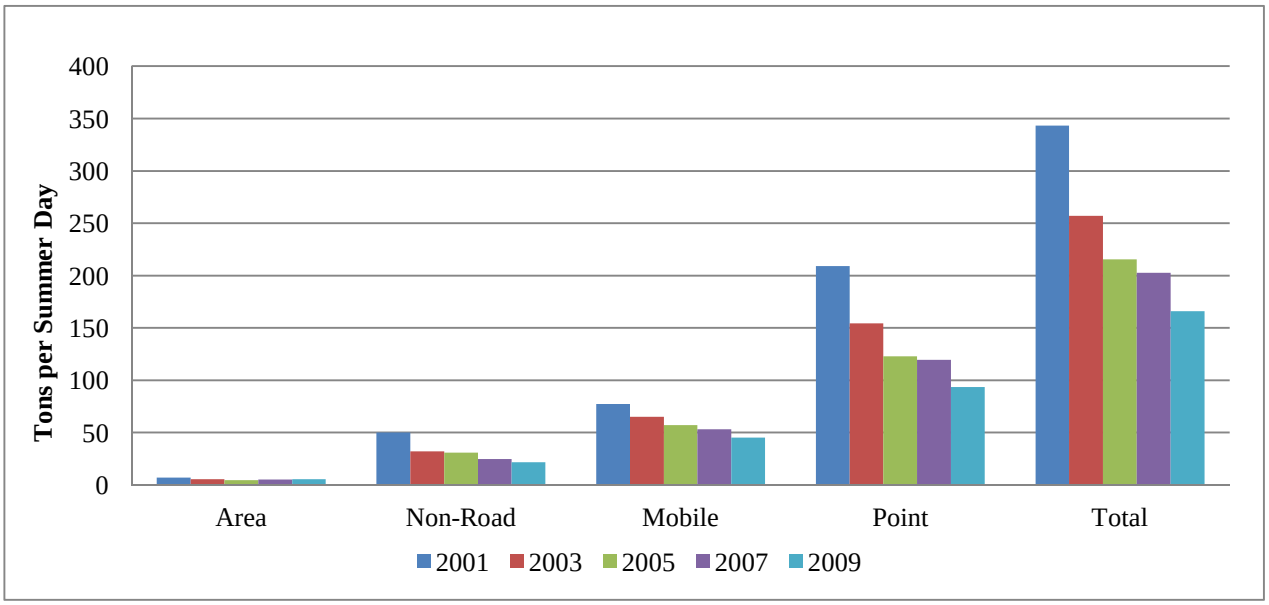


Graph 4.4 Statewide NO_x Emissions from Electric Generating Units, 1999-2011

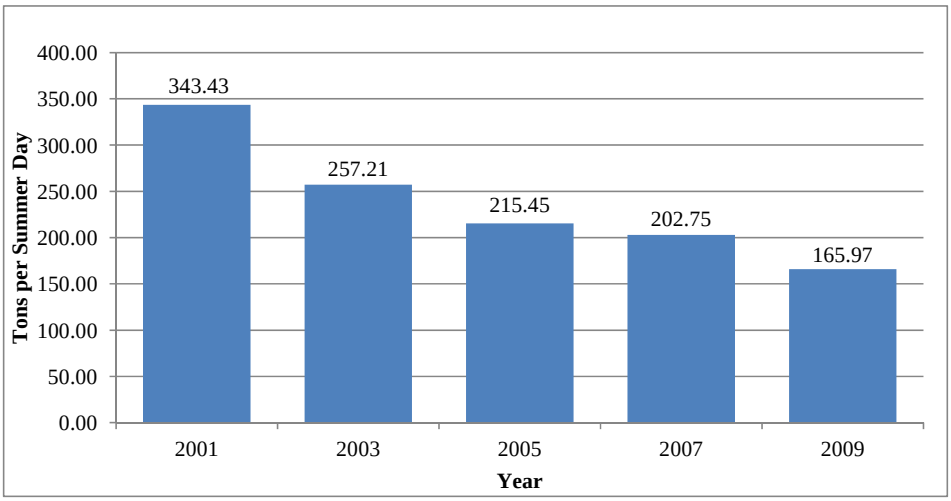


NO_x Emission Trends – Lake and Porter Counties, Indiana (Tons per Summer Day)					
Year	**Area**	**Non-Road**	**Mobile**	**Point**	**Total**
2001	6.99	50.21	77.28	208.95	343.43
2003	5.50	32.14	65.22	154.35	257.21
2005	4.62	30.93	57.17	122.73	215.45
2007	5.28	24.75	53.15	119.57	202.75
2009	5.6	21.66	45.11	93.6	165.97

Graph 4.7 NOx Emission Trends by Category and Year, Lake and Porter Counties, Indiana, All Sources, 2001-2009

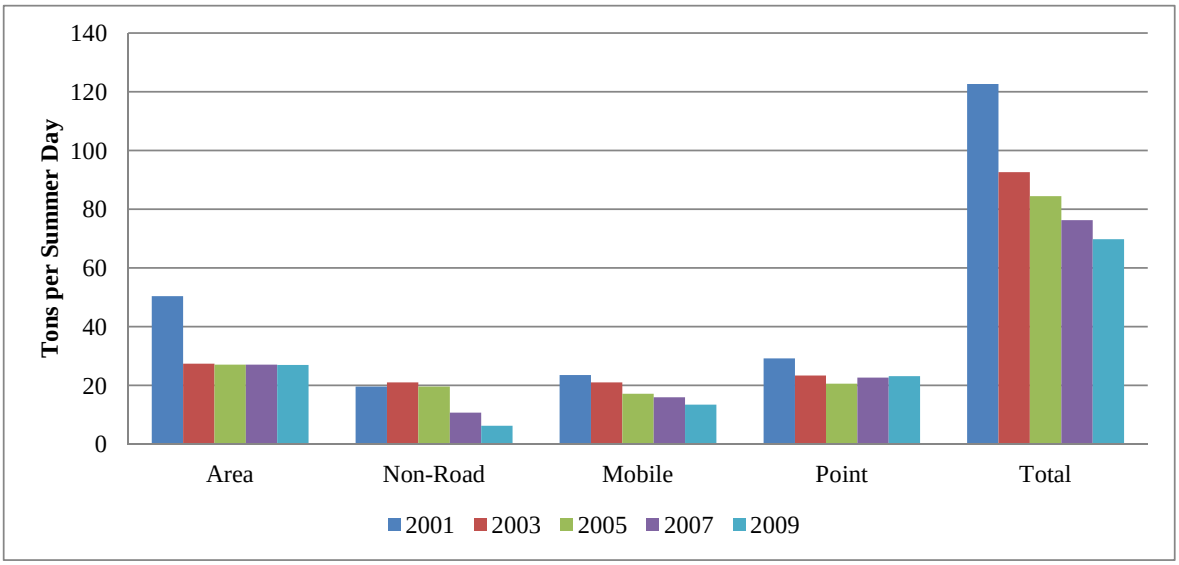


Graph 4.5 NO_x Emissions Trends - Lake and Porter Counties, Indiana All Sources, 2001-2009

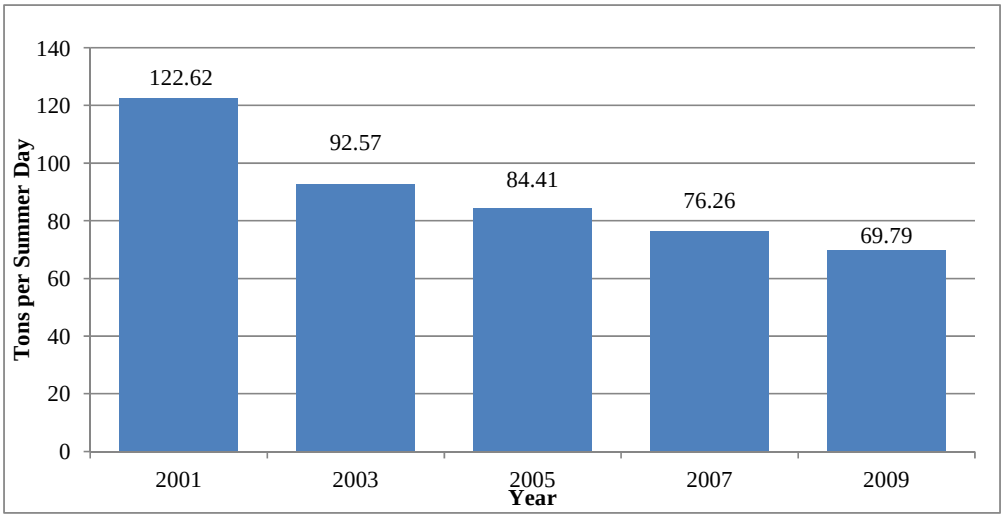


VOC Emission Trends – Lake and Porter Counties, Indiana (Tons per Summer Day)					
Year	**Area**	**Non-Road**	**Mobile**	**Point**	**Total**
2001	50.38	19.55	23.48	29.21	122.62
2003	27.31	21.02	20.96	23.28	92.57
2005	27.1	19.55	17.19	20.57	84.41
2007	27.02	10.69	15.93	22.62	76.26
2009	26.97	6.26	13.42	23.14	69.79

Graph 4.8 VOC Emission Trends by Category and Year, Lake and Porter Counties, Indiana, 2001-2009



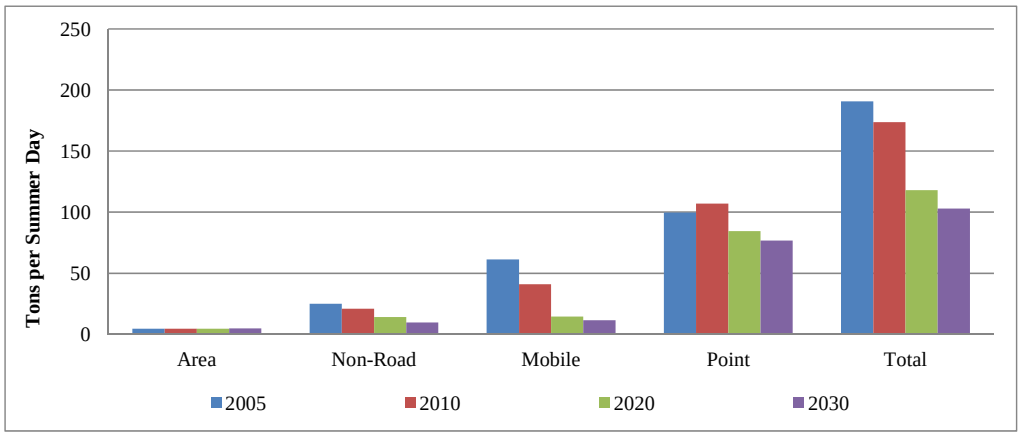
Graph 4.6 VOC Emissions Trends - Lake and Porter Counties, Indiana, 2001-2009



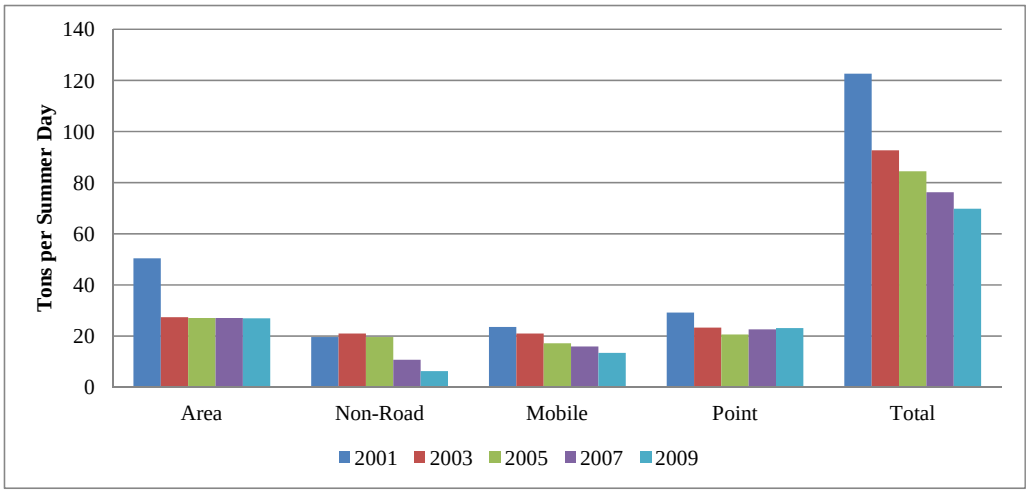
Projected Emissions Inventory

NO_x Emission Inventory, Lake and Porter Counties, Indiana (Tons per Summer Day)					VOC Emission Inventory, Lake and Porter Counties, Indiana (Tons per Summer Day)			
Sector	**2005**	**2010**	**2020**	**2030**	**2005**	**2010**	**2020**	**2030**
Area	4.62	4.67	4.69	4.74	27.1	29.17	27.93	25.8
Non-Road	30.93	20.92	14.22	9.76	19.55	17.76	13.82	10.47
Mobile	57.17	41.09	14.52	11.56	17.19	12.16	5.21	4.66
Point	122.73	107.00	84.56	76.89	20.57	18.69	22.94	27.88
TOTAL	215.45	173.68	117.99	102.95	84.41	77.78	69.9	68.81

Graph 4.9 Comparisons of 2005 and 2010 (Estimated) and 2020 and 2030 (Projected) NO_x Emissions for Lake and Porter Counties, Indiana



Graph 4.10 Comparisons of 2005 and 2010 (Estimated) and 2020 and 2030 (Projected) VOC Emissions for Lake and Porter Counties, Indiana



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