

APPENDIX D

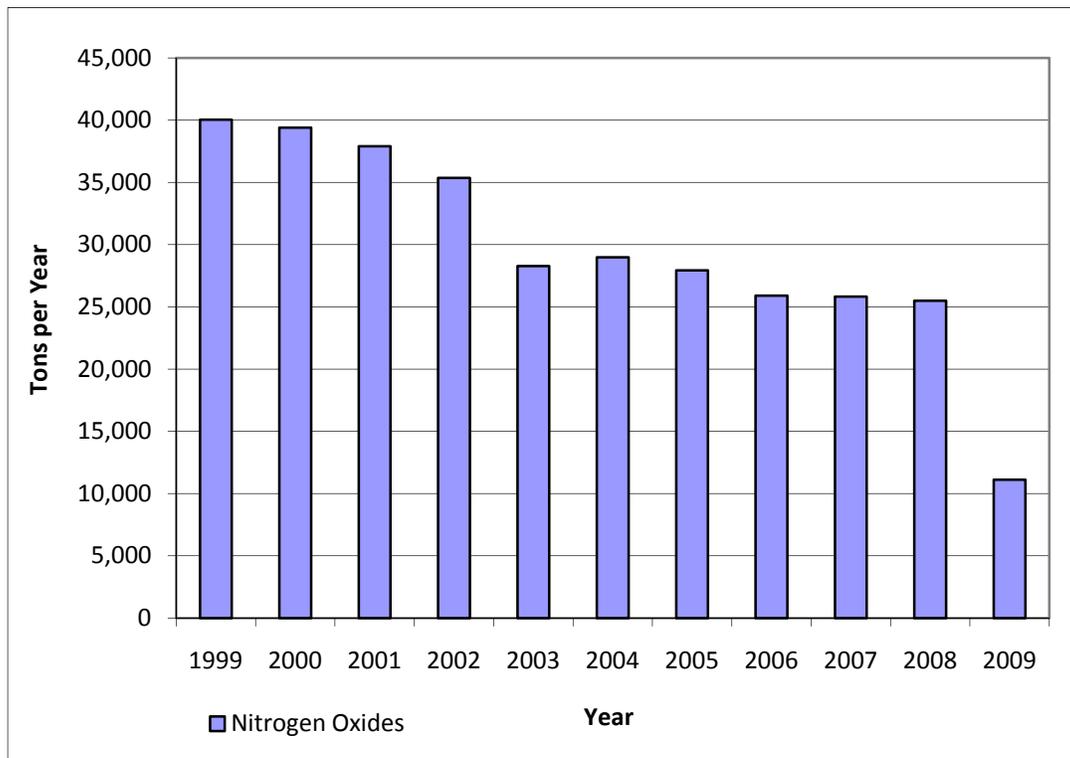
**Nitrogen Oxides (NO_x) and Sulfur Dioxide (SO₂)
Emission Trends from Electric Generating Units
(EGUs), Louisville Area (1999 through 2009)**

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Trends in EGU NO_x Emissions, Floyd and Jefferson Counties, Indiana

Year	Total NO_x Emissions, tons/year
1999	40,042.30
2000	39,396.60
2001	37,896.00
2002	35,364.10
2003	28,282.60
2004	28,977.70
2005	27,926.80
2006	25,900.50
2007	25,829.60
2008	25,488.60
2009	11,106.90

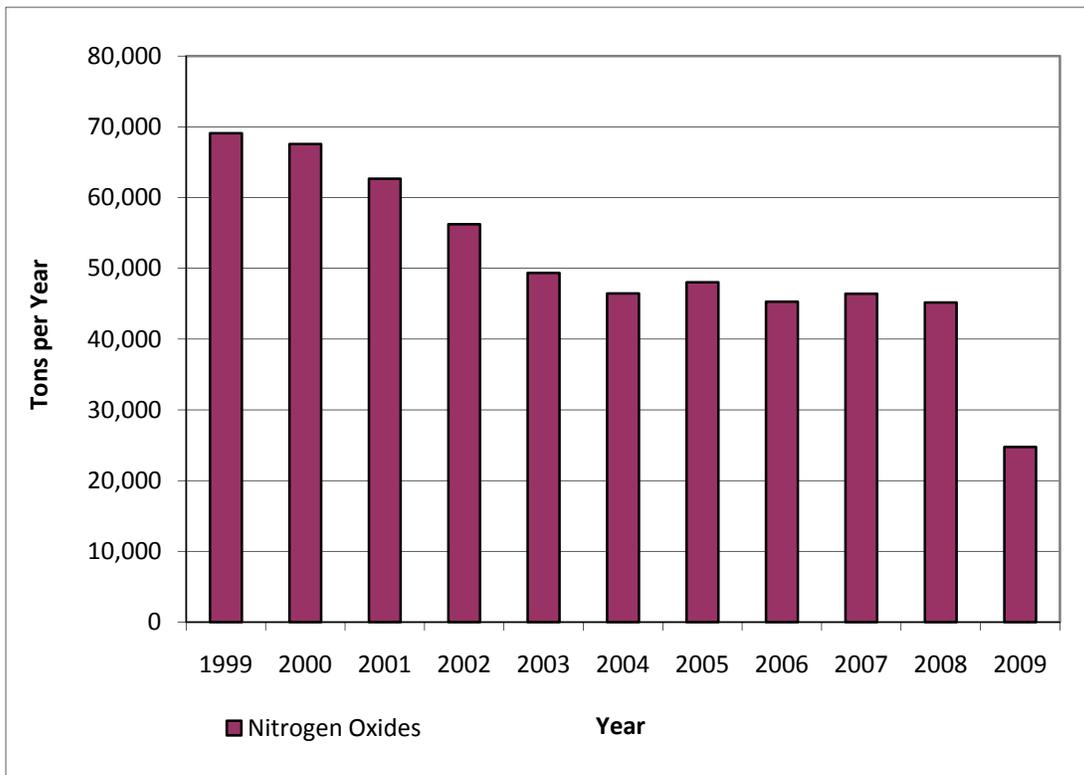
NO_x Emissions from EGUs, Floyd and Jefferson Counties, Indiana, 1999 to 2009



Trends in EGU NO_x Emissions, Louisville Area

Year	Total NO _x Emissions, tons/year
1999	69,082.50
2000	67,565.80
2001	62,660.60
2002	56,242.90
2003	49,343.00
2004	46,460.50
2005	48,035.80
2006	45,286.30
2007	46,404.00
2008	45,175.70
2009	24,752.00

NO_x Emissions from EGUs Louisville Area, 1999 to 2009



NO_x Emissions from EGUs, Louisville Area 1999		
State	Facility	NO_x Emissions, tons/year
Indiana	Indiana Kentucky Electric Corporation (IKEC) - Clifty Creek Power Plant	33,119.00
Indiana	Duke Energy Indiana – Gallagher Generating Station	6,923.30
Kentucky	Louisville Gas and Electric – Cane Run Station	8,174.70
Kentucky	Louisville Gas and Electric – Mill Creek Station	20,865.50
Total		69,082.50

NO_x Emissions from EGUs, Louisville Area 2000		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC - Clifty Creek Power Plant	31,882.00
Indiana	Duke Energy Indiana – Gallagher Generating Station	7,514.60
Kentucky	Louisville Gas and Electric – Cane Run Station	7,713.50
Kentucky	Louisville Gas and Electric – Mill Creek Station	20,455.70
Total		67,565.80

NO_x Emissions from EGUs, Louisville Area 2001		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC - Clifty Creek Power Plant	31,232.80
Indiana	Duke Energy Indiana – Gallagher Generating Station	6,663.20
Kentucky	Louisville Gas and Electric – Cane Run Station	7,188.30
Kentucky	Louisville Gas and Electric – Mill Creek Station	17,576.30
Total		62,660.60

NO_x Emissions from EGUs, Louisville Area 2002		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	29,231.00
Indiana	Duke Energy Indiana – Gallagher Generating Station	6,133.10
Kentucky	Louisville Gas and Electric – Cane Run Station	6,271.80
Kentucky	Louisville Gas and Electric – Mill Creek Station	14,607.00
Total		56,242.90

NO_x Emissions from EGUs, Louisville Area 2003		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	21,888.90
Indiana	Duke Energy Indiana – Gallagher Generating Station	6,393.70
Kentucky	Louisville Gas and Electric – Cane Run Station	6,664.70
Kentucky	Louisville Gas and Electric – Mill Creek Station	14,395.70
Total		49,343.00

NO_x Emissions from EGUs, Louisville Area 2004		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	22,678.40
Indiana	Duke Energy Indiana – Gallagher Generating Station	6,299.30
Kentucky	Louisville Gas and Electric – Cane Run Station	5,585.30
Kentucky	Louisville Gas and Electric – Mill Creek Station	11,897.50
Total		46,460.50

NO_x Emissions from EGUs, Louisville Area 2005		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	22,620.90
Indiana	Duke Energy Indiana – Gallagher Generating Station	5,305.90
Kentucky	Louisville Gas and Electric – Cane Run Station	7,040.50
Kentucky	Louisville Gas and Electric – Mill Creek Station	13,068.50
Total		48,035.80

NO_x Emissions from EGUs, Louisville Area 2006		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	21,661.70
Indiana	Duke Energy Indiana – Gallagher Generating Station	4,238.80
Kentucky	Louisville Gas and Electric – Cane Run Station	6,791.50
Kentucky	Louisville Gas and Electric – Mill Creek Station	12,594.30
Total		45,286.30

NO_x Emissions from EGUs, Louisville Area 2007		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	20,453.80
Indiana	Duke Energy Indiana – Gallagher Generating Station	5,375.80
Kentucky	Louisville Gas and Electric – Cane Run Station	6,543.90
Kentucky	Louisville Gas and Electric – Mill Creek Station	14,030.50
Total		46,404.00

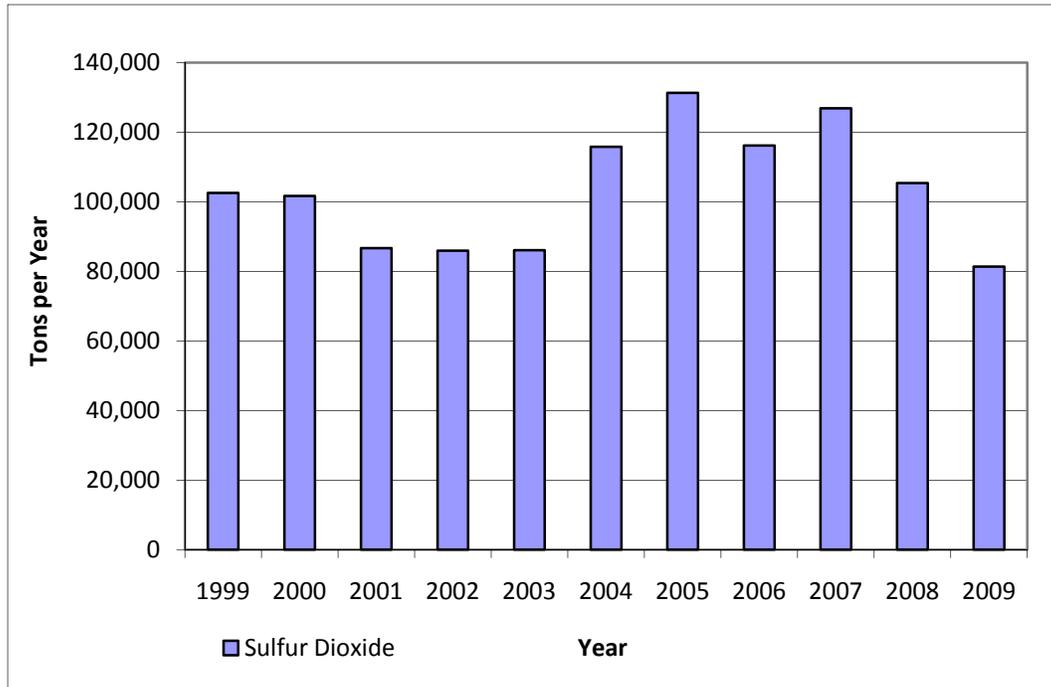
NO_x Emissions from EGUs, Louisville Area 2008		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	20,546.70
Indiana	Duke Energy Indiana – Gallagher Generating Station	4,941.90
Kentucky	Louisville Gas and Electric – Cane Run Station	5,894.10
Kentucky	Louisville Gas and Electric – Mill Creek Station	13,793.00
Total		45,175.70

NO_x Emissions from EGUs, Louisville Area 2009		
State	Facility	NO_x Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	8,018.80
Indiana	Duke Energy Indiana – Gallagher Generating Station	3,088.10
Kentucky	Louisville Gas and Electric – Cane Run Station	5,738.20
Kentucky	Louisville Gas and Electric – Mill Creek Station	7,906.90
Total		24,752.00

Trends in EGU SO₂ Emissions, Floyd and Jefferson Counties, Indiana

Year	Total SO₂ Emissions, tons/year
1999	102,552.00
2000	101,686.40
2001	86,675.00
2002	85,964.70
2003	86,094.40
2004	115,789.60
2005	131,325.40
2006	116,190.90
2007	126,876.50
2008	105,367.70
2009	81,378.50

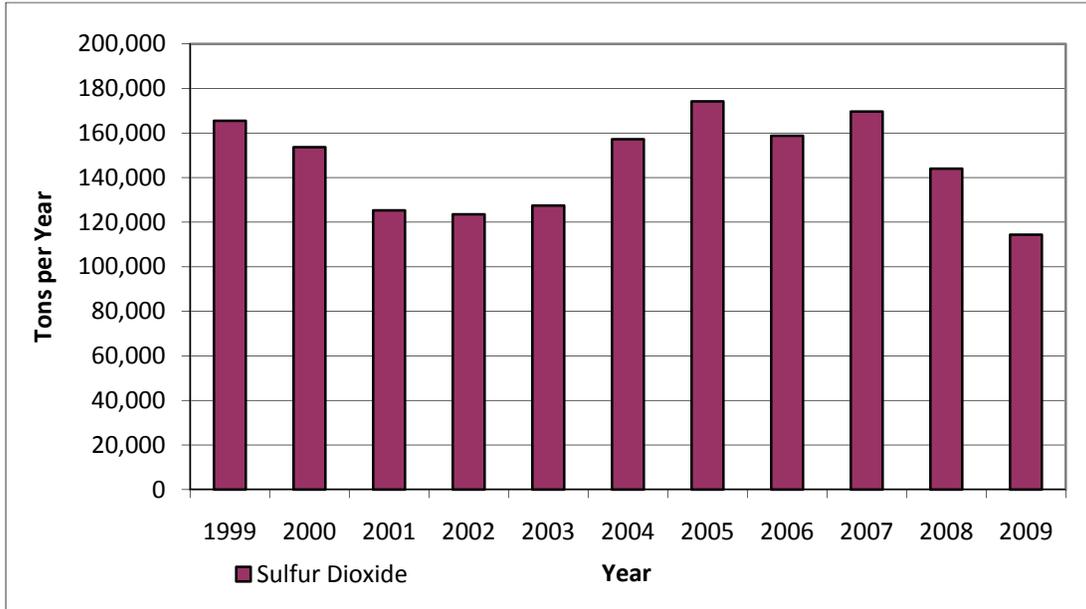
SO₂ Emissions from EGUs, Floyd and Jefferson Counties, Indiana, 1999 to 2009



Trends in EGU SO₂ Emissions, Louisville Area

Year	Total SO ₂ Emissions, tons/year
1999	165,480.70
2000	153,627.40
2001	125,310.20
2002	123,518.00
2003	127,468.30
2004	157,252.40
2005	174,219.30
2006	158,777.40
2007	169,651.30
2008	144,054.60
2009	114,404.60

SO₂ Emissions from EGU, Louisville Area, 1999 to 2009



SO ₂ Emissions from EGUs, Louisville Area 1999		
State	Facility	SO ₂ Emissions, tons/year
Indiana	IKEC - Clifty Creek Power Plant	52,675.50
Indiana	Duke Energy Indiana – Gallagher Generating Station	49,876.50
Kentucky	Louisville Gas and Electric – Cane Run Station	17,877.40
Kentucky	Louisville Gas and Electric – Mill Creek Station	45,051.30
Total		165,480.70

SO ₂ Emissions from EGUs, Louisville Area 2000		
State	Facility	SO ₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	42,678.20
Indiana	Duke Energy Indiana – Gallagher Generating Station	59,008.20
Kentucky	Louisville Gas and Electric – Cane Run Station	17,438.70
Kentucky	Louisville Gas and Electric – Mill Creek Station	34,502.30
Total		153,627.40

SO₂ Emissions from EGUs, Louisville Area 2001		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	39,163.80
Indiana	Duke Energy Indiana – Gallagher Generating Station	47,511.20
Kentucky	Louisville Gas and Electric – Cane Run Station	16,120.50
Kentucky	Louisville Gas and Electric – Mill Creek Station	22,514.70
Total		125,310.20

SO₂ Emissions from EGUs, Louisville Area 2002		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	38,197.50
Indiana	Duke Energy Indiana – Gallagher Generating Station	47,767.20
Kentucky	Louisville Gas and Electric – Cane Run Station	14,984.60
Kentucky	Louisville Gas and Electric – Mill Creek Station	22,568.70
Total		123,518.00

SO₂ Emissions from EGUs, Louisville Area 2003		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	32,753.60
Indiana	Duke Energy Indiana – Gallagher Generating Station	53,340.80
Kentucky	Louisville Gas and Electric – Cane Run Station	16,294.00
Kentucky	Louisville Gas and Electric – Mill Creek Station	25,079.90
Total		127,468.30

SO₂ Emissions from EGUs, Louisville Area 2004		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	53,136.00
Indiana	Duke Energy Indiana – Gallagher Generating Station	62,653.60
Kentucky	Louisville Gas and Electric – Cane Run Station	15,770.00
Kentucky	Louisville Gas and Electric – Mill Creek Station	25,692.80
Total		157,252.40

SO₂ Emissions from EGUs, Louisville Area 2005		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	74,658.70
Indiana	Duke Energy Indiana – Gallagher Generating Station	56,666.70
Kentucky	Louisville Gas and Electric – Cane Run Station	18,861.70
Kentucky	Louisville Gas and Electric – Mill Creek Station	24,032.20
Total		174,219.30

SO₂ Emissions from EGUs, Louisville Area 2006		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	65,371.80
Indiana	Duke Energy Indiana – Gallagher Generating Station	50,819.10
Kentucky	Louisville Gas and Electric – Cane Run Station	17,122.10
Kentucky	Louisville Gas and Electric – Mill Creek Station	25,464.40
Total		158,777.40

SO₂ Emissions from EGUs, Louisville Area 2007		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	66,884.40
Indiana	Duke Energy Indiana – Gallagher Generating Station	59,992.10
Kentucky	Louisville Gas and Electric – Cane Run Station	14,878.50
Kentucky	Louisville Gas and Electric – Mill Creek Station	27,896.30
Total		169,651.30

SO₂ Emissions from EGUs, Louisville Area 2008		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	64,934.30
Indiana	Duke Energy Indiana – Gallagher Generating Station	40,433.40
Kentucky	Louisville Gas and Electric – Cane Run Station	10,103.70
Kentucky	Louisville Gas and Electric – Mill Creek Station	28,583.20
Total		144,054.60

SO₂ Emissions from EGUs, Louisville Area 2009		
State	Facility	SO₂ Emissions, tons/year
Indiana	IKEC- Clifty Creek Power Plant	54,476.00
Indiana	Duke Energy Indiana – Gallagher Generating Station	26,902.50
Kentucky	Louisville Gas and Electric – Cane Run Station	8,792.10
Kentucky	Louisville Gas and Electric – Mill Creek Station	24,234.00
Total		114,404.60