

APPENDIX A

**Air Quality System (AQS) and Indiana
Department of Environmental Management
(IDEM) Fine Particle Monitor Data Values for the
Louisville Area (2000 – 2010)**

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Monitoring Data for Indiana's Portion of the Louisville Area

SITE ID	COUNTY	SITE NAME	YEAR	Annual Average $\mu\text{g}/\text{m}^3$	2008-2010 Average $\mu\text{g}/\text{m}^3$
18-019-0006	Clark	Jeffersonville – Walnut Street	2008	14.48	14.1
			2009	13.01	
			2010	14.67	
18-019-0008	Clark	Charlestown State Park	2008	13.44	12.2
			2009	10.84	
			2010	12.45	
18-089-2004	Floyd	New Albany	2008	12.70	12.8
			2009	11.91	
			2010	13.80	

Red Text Indicates Incomplete Data

The Charlestown State Park monitor began operation on July 2, 2008.

Site ID	County	Site Name	Yearly Annual Means										
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
18-019-0005	Clark	Spring Street	18.59	16.85	16.02	14.68							
18-019-0006	Clark	Jeffersonville - Walnut Street				19.12	15.07	18.48 ^E	14.91 ^E	16.43 ^E	14.48	13.01	14.67
18-019-0005/6	Clark	Combined*		16.85	16.02	15.78	15.07	18.48 ^E					
18-019-0008	Clark	Charlestown State Park									13.44	10.84	12.45
18-043-1004	Floyd	New Albany	16.27	15.73	14.62	14.44	13.68	16.69 ^E	13.32 ^E	14.66 ^E	12.70	11.91	13.80

* Combined-- These two sites are considered to measure the same air mass, thus the data are combined for the purpose of the Design Value calculations

^E Exceptional event data removed from calculations.

The Jeffersonville – Spring Street monitor was replaced by the Jeffersonville – Walnut Street monitor on June 29, 2003.

The Charlestown State Park monitor began operation on July 2, 2008.

Site ID	County	Site Name	Three Year Design Values								
			00-02	01-03	02-04	03-05	04-06	05-07	06-08	07-09	08-10
18-019-0005	Clark	Spring Street	17.2	15.8							
18-019-0006	Clark	Jeffersonville – Walnut Street		19.1	17.1	17.6	16.2	16.6	15.3	14.6	14.1
18-019-0005/6	Clark	Combined*		16.2	15.6	16.5					
18-019-0008	Clark	Charlestown State Park							13.4	12.1	12.2
18-043-1004	Floyd	New Albany	15.5	14.9	14.2	14.9	14.6	14.9	13.6	13.1	12.8
Value above the annual standard for fine particles											

* Combined-- These two sites are considered to measure the same air mass, thus the data are combined for the purpose of the Design Value calculations

Red Text Indicates Incomplete Data

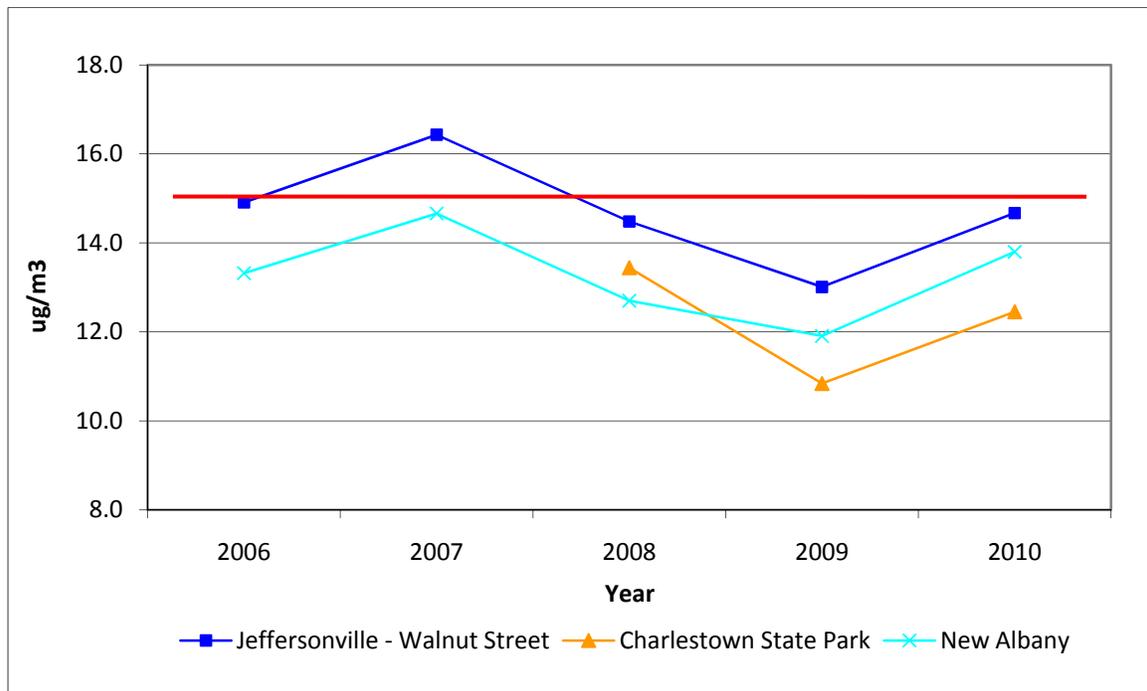
Blue Text Indicates Design Value Based on One Year of Data

Green Text Indicates Design Value Based on Two Years of Data

The Jeffersonville – Spring Street monitor was replaced by the Jeffersonville – Walnut Street monitor on June 29, 2003.

The Charlestown State Park monitor began operation on July 2, 2008.

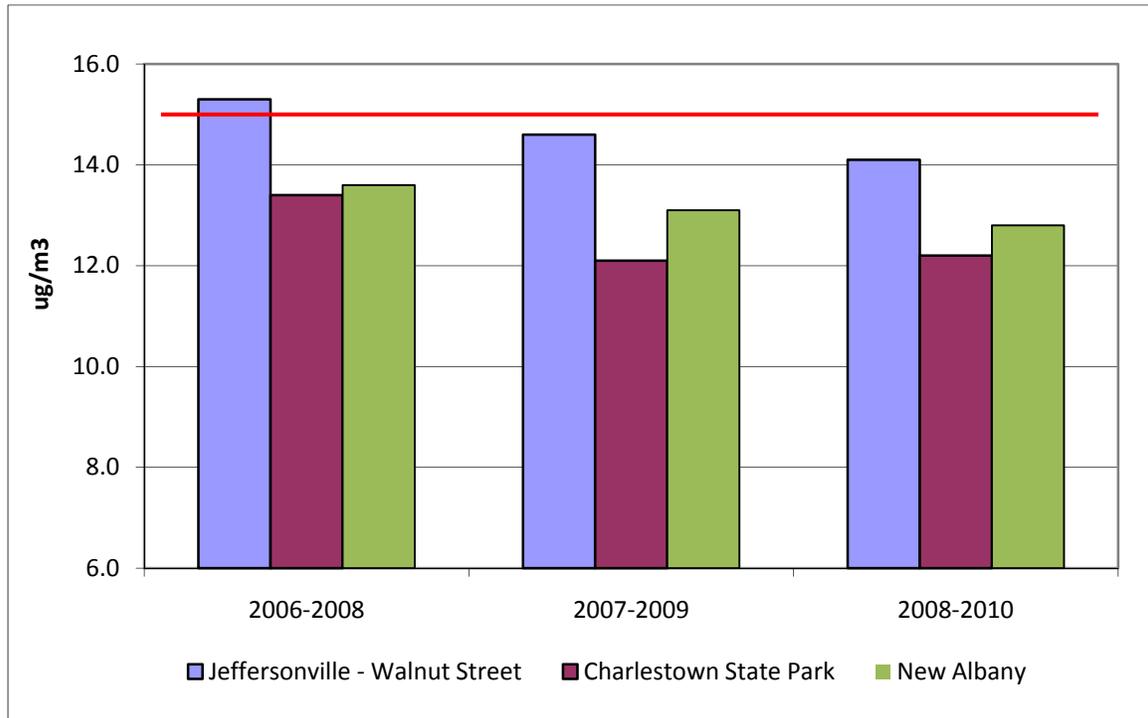
Annual Fine Particle Trends for Indiana’s Portion of the Louisville Area, 2006 through 2010



Red line represents the annual standard for fine particles of 15.0 ug/m³

The Charlestown State Park monitor began operation on July 2, 2008.

**Fine Particle Design Values for Indiana's Portion of the Louisville Area,
2006 through 2010**



Red line represents the annual standard for fine particles of 15 $\mu\text{g}/\text{m}^3$

The Charlestown State Park monitor began operation on July 2, 2008.

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Monitoring Data for Kentucky's Portion of the Louisville Area

SITE ID	COUNTY	SITE NAME	YEAR	Annual Average $\mu\text{g}/\text{m}^3$	2008-2010 Average $\mu\text{g}/\text{m}^3$
21-029-0006	Bullitt	Shepherdsville	2008	12.84	12.70
			2009	11.81	
			2010	13.45	
21-111-0043	Jefferson	Southern Avenue	2008	13.17	12.95
			2009	12.21	
			2010	13.47	
21-111-0044	Jefferson	Wyandotte Park	2008	13.41	13.20
			2009	12.45	
			2010	13.74	
21-111-0048	Jefferson	Barret Avenue	2008	13.44	13.44
			2009	N/A	
			2010	N/A	
21-111-0051	Jefferson	Watson Elementary	2008	12.78	13.07
			2009	11.59	
			2010	14.83	
21-111-0067	Jefferson	Cannons Lane	2008	N/A	12.47
			2009	11.67	
			2010	13.27	

Blue Text Indicates Design Value Based on One Year of Data

Green Text Indicates Design Value Based on Two Years of Data

The Barrett Avenue monitor discontinued operation on December 31, 2008.

The Cannons Lane monitor began operation on January 1, 2009.

Site ID	County	Site Name	Yearly Annual Means										
			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
21-029-0006	Bullitt	Shepherdsville	16.43	15.55	14.69	14.37	13.62	16.32*	14.14	15.32	12.84	11.81	13.45
21-111-0043	Jefferson	Southern Avenue	17.31	17.10*	17.16	15.96	14.53	16.72	14.96*	15.09	13.17	12.21	13.47
21-111-0044	Jefferson	Wyandotte Park	16.68	17.73	17.45	15.38	14.05	16.48	15.18	14.91	13.41	12.45	13.74
21-111-0048	Jefferson	Barret	16.71*	16.90*	16.43	15.53	13.71*	16.77	13.99	14.96	13.44		
21-111-0051	Jefferson	Watson Elementary	16.80*	16.27*	15.72*	14.92	12.63	16.48	13.67	15.71	12.78	11.59	14.83
21-111-0067	Jefferson	Cannons Lane										11.67	13.27

*Indicates that the mean does not satisfy summary criteria.

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The Cannons Lane monitor began operation on January 1, 2009.

Site ID	County	Site Name	Three Year Design Values								
			00-02	01-03	02-04	03-05	04-06	05-07	06-08	07-09	08-10
21-029-0006	Bullitt	Shepherdsville	15.56	14.87	14.23	14.77	14.69	15.26	14.10	13.32	12.70
21-111-0043	Jefferson	Southern Avenue	17.19	16.74	15.88	15.74	15.40	15.59	14.41	13.49	12.95
21-111-0044	Jefferson	Wyandotte Park	17.29	16.85	15.63	15.30	15.24	15.52	14.50	13.59	13.20
21-111-0048	Jefferson	Barret Avenue	16.68	16.29	15.22	15.32	14.77	15.30	14.19	14.28	13.44
21-111-0051	Jefferson	Watson Elementary	16.26	15.64	14.42	14.68	14.26	15.29	14.05	13.36	13.07
21-111-0067	Jefferson	Cannons Lane								11.67	12.47
Value above the annual standard for fine particles.											

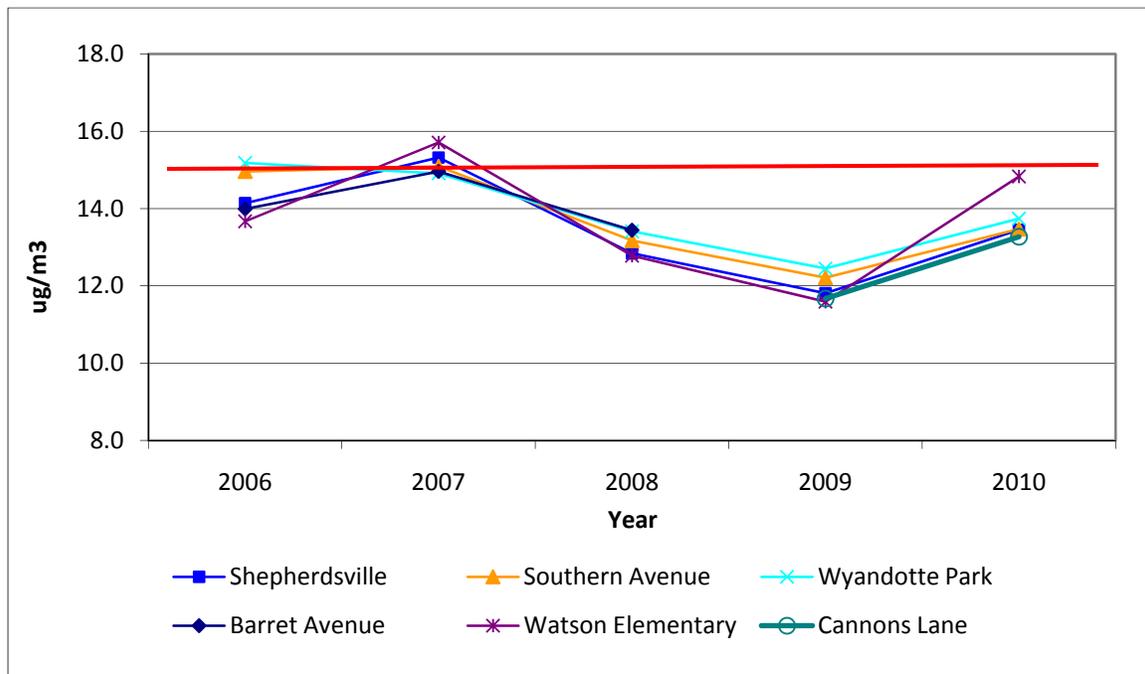
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