

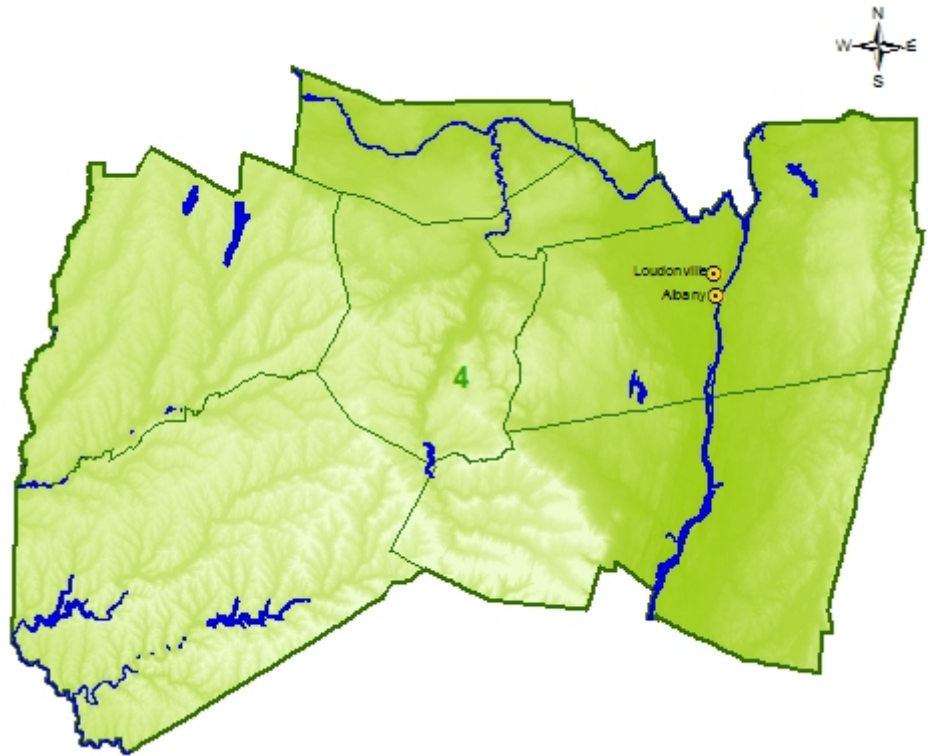
# **APPENDIX C**

**Air Quality Data  
NYSDEC 2015 Region 4 Data**



Department of  
Environmental  
Conservation

## 2015 Region 4 Air Quality Data



### Description of Region 4 Monitoring Stations

Site No.	Station	County	Address	Parameters
0101-13	Albany	Albany	S Ferry and Green St	PM <sub>2.5</sub> , PM <sub>2.5</sub> (Continuous)
0101-33	Loudonville	Albany	300 Albany Shaker Road	CO, O <sub>3</sub> , SO <sub>2</sub> , PM <sub>2.5</sub>

## Sulfur Dioxide - Continuous Pulsed Fluorescence

Annual Averages 2005 through 2015 Annual Arithmetic Mean (ppb) - Primary Standard  
(12 month average not to exceed 30 ppb \*)

Station	Site No.	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Loudonville	0101-33	5.15	5.07	2.97	3.61	3.85	2.33	1.92	0.97	2.03	1.6	1.3
Schenectady	4601-05	5.16	5.35	2.33	3.42	2.63	1.92	(2.18)	xx	xx	xx	xx
Grafton State Park	4153-04	1.85	1.37	1.58	1.77	1.52	1.12	1.13	(0.76)	xx	xx	xx

Sampling at 4601-05 and 4153-04 was terminated on 06/30/11 and 12/31/12, respectively.

### Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2015

Station	Site No.	One Hour Averages average of 99 <sup>th</sup> percentile for last 3 years not to exceed 75 ppb*					
		Observations		99 <sup>th</sup> Percentile, ppb			
		Total Obs	% Avail	2015	2014	2013	3-yr avn

Loudonville	0101-33	8,607	98	7.0	7.7	8.5	7.7
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Footnotes for Region 4 sulfur dioxide data:

(Values in parentheses indicate less than 75% available data for all 4 quarters)

\* The rule for revised federal standards was signed in June 2010, providing a primary 1-hr standard of 75 ppb, and a secondary 3-hr standard of 0.5 ppm. However, the 1971 standards remain in effect until one year after an area is designated for the 2010 standard.

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS

## Inhalable Particulates (PM<sub>2.5</sub>) - Rupprecht & Patashnick Sampler

**Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2015 (Average of last 3 years' annual means not to exceed 12 µg/m<sup>3</sup> \*; and average of 98th percentile for last 3 years not to exceed 35 µg/m<sup>3</sup> \*)**

Station	Site No.	Total Obs.	Maximum Values, µg/m <sup>3</sup>			98 <sup>th</sup> Percentile, µg/m <sup>3</sup>				Quarterly Averages, 2015				Annual Mean, µg/m <sup>3</sup>			
			1st	2nd	3rd	2015	2014	2013	3-yr avg	1st	2nd	3rd	4th	2015	2014	2013	3-yr avg
Albany Co. HD (F)	0101-13	118	23.7 [01/24]	23.3 [01/15]	20.1 [03/01]	20.1	19.4	19.5	19.7	10.2	6.6	8.3	6.2	7.8	7.3	7.1	7.4
Albany Co. HD (T)	0101-13	350	37.8 [07/04]	22.4 [01/14]	20.5 [09/02]	18.1	15.6	19.3	17.7	9.1	5.0	7.5	6.5	7.0	6.8	6.8	6.9
Loudonville (F)	0101-33	116	22.5 [01/24]	19.0 [01/15]	18.0 [09/03]	18.0	15.8	16.7	16.8	9.0	5.5	7.7	5.3	6.9	(6.5)	(6.4)	(6.6)

Footnotes for Region 4 PM<sub>2.5</sub> data:

(Annual Means in parentheses are based on less than 75% available data)

F = Federal Reference Method

T = TEOM (Tapered Element Oscillating Microbalance) not for Standards determination

\* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

## Carbon Monoxide - Continuous Gas Filter Correlation

**Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2015**

Station	Site No.	One-Hour Average Maximum not to exceed 35 ppm more than once per calendar year *						Running 8-Hour Average (Non-Overlapping) Maximum not to exceed 9 ppm more than once per calendar year *				
		Observations			Highest Values, ppm			Observations		Highest Values, ppm		
		Total Obs.	% Avail	>35 ppm	1st	2nd	3rd	Total	>9 ppm	1st	2nd	Days >9 ppm
Loudonville	0101-33	8,607	98	0	5.4 [12/24, 10]	1.0 [11/09, 07]	1.0 [11/10, 17]	8,618	0	1.0 [12/24, 10]	0.8 [11/09, 10]	0

Footnotes for Region 4 carbon monoxide data:

(Annual Means in parentheses are based on less than 75% available data)

\* New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of NYS/Federal AAQS (Note: 9 ppm standard is not exceeded unless 8-hour avg > 9.4 ppm)

## Ozone - Continuous UV Light Absorption

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2015

Station	Site No.	8-Hr Running Average Begin Hour							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed to 0.070 ppm on 1/1/2016*</i>			
		Observations			Highest Values, ppm				2013	2014	2015	Avg
		Total Obs.	% Avail	Days >0.75 ppm	1st	2nd	3rd	4th				
Loudonville	0101-33	8,499	97	0	.069 [05/08, 10]	.067 [05/04, 10]	.067 [09/04, 10]	.063 [05/25, 13]	.064 [05/01]	.061 [05/26]	.063 [05/25]	.062

Footnotes for Region 4 ozone data:

(Annual Means in parentheses are based on less than 75% available data)

\* Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

+ Denotes a contravention of Federal AAQS



**Green Book Nonattainment Areas**

**New York Nonattainment/Maintenance Status for Each County by Year for All Criteria Pollutants**

As of June 17, 2016

The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

Listed by County, NAAQS, then Area

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Important Notes

County	NAAQS	Area Name	Nonattainment in Year													Redesignation to Maintenance	Classification	Whole or/Part County	Population (2010)	State/County FIPS Codes														
<b>NEW YORK</b>																																		
Albany Co	1-Hour Ozone (1979)-NAAQS revoked	Albany-Schenectady-Troy, NY	92	93	94	95	96	97	98	99	00	01	02	03	04					//	Marginal	Whole	304,204	36/001										
Albany Co	8-Hour Ozone (1997)-NAAQS revoked	Albany-Schenectady-Troy, NY											04	05	06	07	08	09	10	11	12	13	14					//	Marginal	Whole	304,204	36/001		
Bronx Co	1-Hour Ozone (1979)-NAAQS revoked	New York-N. New Jersey-Long Island, NY-NJ-CT	92	93	94	95	96	97	98	99	00	01	02	03	04															//	Severe 17	Whole	1,385,108	36/005
Bronx Co	8-Hour Ozone (1997)-NAAQS revoked	New York-N. New Jersey-Long Island, NY-NJ-CT											04	05	06	07	08	09	10	11	12	13	14						//	Moderate	Whole	1,385,108	36/005	
Bronx Co	8-Hour Ozone (2008)	New York-N. New Jersey-Long Island, NY-NJ-CT																				12	13	14	15	16				//	Moderate	Whole	1,385,108	36/005
Bronx Co	Carbon Monoxide (1971)	New York-N. New Jersey-Long Island, NY-NJ-CT	92	93	94	95	96	97	98	99	00	01																		05/20/2002	Moderate > 12.7ppm	Whole	1,385,108	36/005
Bronx Co	PM-2.5 (1997)	New York-N. New Jersey-Long Island, NY-NJ-CT												05	06	07	08	09	10	11	12	13							04/18/2014	Former Subpart 1	Whole	1,385,108	36/005	
Bronx Co	PM-2.5 (2006)	New York-N. New Jersey-Long Island, NY-NJ-CT																	09	10	11	12	13						04/18/2014	Former Subpart 1	Whole	1,385,108	36/005	
Chautauqua Co	8-Hour Ozone (1997)-NAAQS revoked	Jamestown, NY											04	05	06	07	08	09	10	11	12	13	14						//	Moderate	Whole	134,905	36/013	
Chautauqua Co	8-Hour Ozone (2008)	Jamestown, NY																				12	13	14	15	16				//	Marginal	Whole	134,905	36/013
Dutchess Co	1-Hour Ozone (1979)-NAAQS revoked	Poughkeepsie, NY	92	93	94	95	96	97	98	99	00	01	02	03	04															//	Moderate	Whole	297,488	36/027
Dutchess Co	8-Hour Ozone (1997)-NAAQS revoked	Poughkeepsie, NY											04	05	06	07	08	09	10	11	12	13	14						//	Moderate	Whole	297,488	36/027	
Erie Co	1-Hour Ozone (1979)-NAAQS revoked	Buffalo-Niagara Falls, NY	92	93	94	95	96	97	98	99	00	01	02	03	04															//	Marginal	Whole	919,040	36/029
Erie Co	8-Hour Ozone (1997)-NAAQS revoked	Buffalo-Niagara Falls, NY											04	05	06	07	08	09	10	11	12	13	14						//	Moderate	Whole	919,040	36/029	
Essex Co	1-Hour Ozone (1979)-NAAQS revoked	Essex Co, NY	92	93	94	95	96	97	98	99	00	01	02	03	04															//	Rural Transport (Marginal)	Part	0	36/031
Essex Co	8-Hour Ozone (1997)-NAAQS revoked	Essex Co (Whiteface Mtn), NY											04	05	06	07	08	09	10	11	12	13	14						//	Marginal	Part	465	36/031	
Genesee Co	8-Hour Ozone (1997)-NAAQS revoked	Rochester, NY											04	05	06	07	08	09	10	11	12	13	14						//	Marginal	Whole	60,079	36/037	
Greene Co	1-Hour Ozone (1979)-NAAQS revoked	Albany-Schenectady-Troy, NY	92	93	94	95	96	97	98	99	00	01	02	03	04															//	Marginal	Whole	49,221	36/039
Greene Co	8-Hour Ozone (1997)-NAAQS revoked	Albany-Schenectady-Troy, NY											04	05	06	07	08	09	10	11	12	13	14						//	Marginal	Whole	49,221	36/039	
Jefferson Co	1-Hour Ozone (1979)-NAAQS	Jefferson Co, NY	92	93	94	95	96	97	98	99	00	01	02	03	04															//	Marginal	Whole	116,229	36/045