

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **1**

Annual Averages 2002 through 2013
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Eisenhower Park	2950-10	4.54	4.29	4.16	3.86	3.73	4.72	3.45	2.09	1.97	(1.15)	(1.12)
Holtsville	5151-10	5.84	7.04	7.26	3.74	4.54	4.82	3.81	3.95	2.22	(1.03)	(1.20)

Holtsville site (5151-10) was operated by Suffolk County Health Dept until 9/30/10, when NYSDEC commenced monitoring.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Eisenhower Park	2950-10	6,869	78	6.0	16.4	27.6	16.7
Holtsville	5151-10	7,255	83	9.0	13.5	21.3	14.6

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **1**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 12 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Eisenhower Park(T)	2950-10	356	33.0 [07/19]	32.0 [01/09]	25.6 [09/11]	23.9	23.1	29.5	25.5	10.1	7.7	8.1	9.0	8.7	9.1	10.9	9.6
Hempstead (F)	2950-18	113	xxx	xxx	xxx	xxx	xxx	23.1	xxx	xxx	xxx	xxx	xxx	xxx	xxx	8.9	xxx
Babylon (F)	5150-01	116	24.1 [12/03]	23.0 [01/28]	21.4 [07/18]	21.4	18.7	21.7	20.6	7.2	7.4	8.2	7.5	7.6	8.0	8.8	8.1
Holtsville (T)	5151-10	342	29.1 [07/18]	23.4 [12/04]	23.1 [01/09]	20.3	19.1	21.2	20.2	9.6	6.9	7.7	8.4	8.2	(6.8)	8.5	(7.8)

Sampling at 2950-18 was terminated on 12/31/2011

(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

OZONE - Continuous UV Light Absorption

NYSDEC Region **1**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Babylon	5150-02	8,549	98	1	.083 [07/18, 12]	.075 [06/25, 10]	.074 [05/30, 11]	.072 [07/17, 11]	.089 [06/08]	.083 [07/01]	.072 [07/11]	.081 +
Holtsville	5151-10	8,305	95	3	.089 [07/18, 12]	.080 [06/25, 10]	.076 [05/30, 10]	.074 06/24, 10]	.082 [07/16]	.079 [07/18]	.074 [06/24]	.078 +
Riverhead (Operated 03/12- 11/14)	5155-01	5,721	97	6	.086 [06/25, 10]	.084 [07/18, 11]	.083 [05/30, 10]	.078 [06/24, 10]	.080 [07/07]	.083 [06/21]	.078 [06/24]	.080 +

Due to EPA Waiver for SLAMS (Non-NAMS), % Availability may be based on operational year of less than 12 months (Riverhead)

(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

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **2**

Annual Averages 2003 through 2013

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
PS 59	7093-10	(13.89)	(10.19)	11.18	9.65	9.75	(10.81)	xxx	xxx	xxx	xxx	xxx
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06 / 7094-10	8.64	8.70	9.33	6.65	6.67	5.96	5.32	4.83	4.65	3.28	2.44
IS 52	7094-07	10.62	10.27	10.91	8.83	7.86	6.58	6.33	(6.22)	xxx	(2.10)	1.22
Queens College 2	7096-15	6.94	5.48	6.48	5.24	4.89	4.02	3.41	2.83	2.65	1.79	1.22

Sampling was suspended at 7094-07 on 06/24/10 due to building construction, and resumed on 08/10/13.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Botanical Garden (Pfizer Lab)	7094-10	8,606	98	21.8	29.7	41.3	30.9
IS 52	7094-07	8,461	97	16.7	22.5	xx	xx
Queens College 2	7096-15	8,516	97	11.8	19.0	29.6	20.1

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

[Date of Occurrence, Hour]

*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.

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INHALABLE PARTICULATES (PM₁₀) - R&P Model 2025 Sampler

NYSDEC Region **2**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		24-Hour Concentrations - $\mu\text{g}/\text{m}^3$							# of Days > 150 $\mu\text{g}/\text{m}^3$ - Not to exceed an expected avg of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.			2011		2012		2013		
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp Avg
PS 19	7093-21	120	46	12/03	40	02/15	40	10/04	0	0.0	0	0.0	0	0.0	0.0
Division Street	7093-24	117	47	12/03	39	02/15	38	05/22	0	0.0	0	0.0	0	0.0	0.0
IS 52	7094-07	56	39	02/15	35	01/28	34	10/31	0	0.0	0	0.0	0	0.0	0.0
Queens College 2	7096-15	55	33	02/15	32	01/28	32	05/22	0	0.0	0	0.0	0	0.0	0.0

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

* Federal Ambient Air Quality Standard

Mea=Measured

Est=Estimated

+ Denotes a contravention of Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **2**
(Manhattan Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 12 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
JHS 45 (F)	7093-08	116	30.4 [12/03]	25.1 [01/28]	20.1 [10/04]	20.1	21.3	25.2	22	8.8	8.4	9.0	8.4	8.6	9.3	10.7	9.5
PS 19 (F)	7093-21	113	32.4 [12/03]	28.4 [01/28]	26.3 [02/15]	26.3	24.9	26.4	26	12.8	10.1	10.2	(12.0)	(11.3)	11.7	12.1	(11.7)
PS 19 (T)	7093-21	245	29.0 [12/04]	28.6 [07/19]	26.5 [09/11]	25.5	23.1	29.6	26	15.4	8.2	8.5	10.3	10.6	10.0	11.9	10.8
Division St (F)	7093-24	104	32.2 [12/03]	25.3 [01/28]	25.0 [02/15]	25.0	24.0	26.8	25	10.1	(8.5)	9.4	9.8	(9.5)	11.0	12.0	(10.8)
Division St (T)	7093-24	296	30.2 [12/04]	26.2 [12/03]	25.9 [09/11]	24.3	19.7	23.8	23	10.0	8.6	(8.2)	9.7	(9.1)	9.6	10.8	(9.8)
CCNY (T)	7093-25	342	28.4 [12/02]	27.1 [07/19]	27.0 [12/04]	23.1	17.3	24.1	22	9.1	6.1	8.2	9.2	8.1	8.8	10.4	9.1

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

F = Federal Reference Method

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* Federal Ambient Air Quality Standard

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INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **2**

(Bronx & Brooklyn Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 12 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Morrisania (T)	7094-05	275	40.2 [01/24]	36.7 [01/23]	32.5 [01/29]	29.8	(26.1) ^F	27.0 ^F	--	(15.6)	9.6	9.7	(12.6)	11.9	xxx	11.6 ^F	--
IS 52 (F)	7094-07	122	29.7 [12/03]	26.0 [01/28]	25.5 [02/15]	25.5	(23.7)	xxx	--	9.5	8.6	8.7	9.0	9.0	xxx	xxx	--
IS 52 (T)	7094-07	222	35.0 [01/09]	31.4 [01/29]	26.6 [07/19]	25.6	(26.0)	xxx	--	9.6	9.0	--	--	xxx	xxx	xxx	--
IS 74 (T)	7094-08	320	27.6 [09/11]	25.1 [07/19]	25.0 [12/03]	21.0	25.1	28.3	24.8	(8.8)	7.9	7.7	9.0	(8.4)	10.3	12.0	(10.2)
PS 154 (T)	7094-09	xxx	xxx	xxx	xxx	xxx	23.7	26.5	--	xxx	xxx	xxx	xxx	xxx	9.0	11.2	--
Botanical Gdn - Pfizer (F)	7094-10	120	28.7 [12/03]	27.6 [01/28]	24.6 [02/15]	24.6	25.1	23.0	24.2	10.1	8.6	8.6	9.2	9.1	9.6	10.2	9.6
PS 314 (T)	7095-07	356	38.2 [01/09]	32.9 [01/07]	29.7 [01/08]	24.4	21.3	22.7	22.8	10.7	6.9	7.3	8.0	8.2	9.3	9.7	9.1
JHS 126 (F)	7095-43	114	32.1 [12/03]	25.6 [01/28]	23.7 [02/15]	23.7	22.1	24.3	23.4	10.3	8.3	9.2	9.3	9.3	9.7	10.3	9.8
IS 293 (T)	7095-44	xxx	xxx	xxx	xxx	xxx	21.5	23.8	--	xxx	xxx	xxx	xxx	xxx	9.2	10.2	--
PS 274 (T)	7095-98	267	24.1 [01/29]	22.8 [01/09]	22.1 [12/04]	20.4	21.3	21.9	21.2	9.8	7.4	(3.7)	6.9	(6.9)	8.9	10.0	(8.6)

Sampling was suspended at 7094-07 from 06/24/10 to 08/30/12 due to building construction

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

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INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **2**

(Queens, and Staten Island Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;

and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Maspeth Library (T)	7096-13	351	26.8 [07/19]	25.9 [09/11]	25.5 [01/29]	19.9	20.1	23.6	21.2	9.8	7.2	8.2	9.4	8.6	8.7	10.3	9.2
Queens College 2 (F)	7096-15	333	30.0 [12/04]	29.9 [12/03]	29.2 [01/09]	25.0	20.5	24.7	23.4	8.6	7.2	9.0	8.6	8.4	8.5	9.4	8.8
Queens College 2 (T)	7096-15	335	30.4 [12/03]	30.2 [01/29]	29.4 [12/04]	24.9	(20.8)	26.0	(23.9)	8.7	8.6	8.4	9.1	8.7	(10.6)	(9.5)	--
Port Richmond (F)	7097-03	104	27.1 [01/28]	22.1 [02/15]	18.3 [10/04]	18.3	22.1	23.2	21.2	8.2	7.1	8.1	7.4	7.7	9.4	9.9	9.0
Port Richmond (T)	7097-03	303	30.0 [07/19]	29.7 [12/02]	27.8 [12/03]	24.6	22.6	24.9	24.0	(10.1)	7.8	9.1	11.5	(9.6)	9.9	(10.7)	--
Freshkills West (T)	7097-17	260	23.6 [12/02]	23.2 [01/09]	22.7 [12/04]	20.9	(22.8)	21.0	(21.6)	8.7	6.2	(7.0)	8.2	(7.5)	--	9.3	--

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

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* Federal Ambient Air Quality Standard

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CARBON MONOXIDE - Continuous Gas Filter Correlation

NYSDEC Region 2

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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		
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	Days> 9PPM
CCNY	7093-25	8,432	96	0	1.8 [12/20, 03]	1.8 [12/20, 04]	1.6 [01/09, 07]	8,431	0	1.5 [12/20, 08]	1.2 [06/10:02]	0
Botanical Gardens (Pfizer Lab)	7094-10	8,579	98	0	2.1 [12/20, 07]	2.0 [02/11, 12]	1.8 [01/09, 10]	8,613	0	1.5 [12/20, 08]	1.3 [01/09, 11]	0
Queens College 2	7096-15	8,642	96	0	2.0 [01/09, 08]	1.9 [01/09, 07]	1.6 [01/09, 06]	8,283	0	1.4 [01/09, 11]	1.0 [02/11, 20]	0

(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: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region **2**

Bronx, Brooklyn, and Staten Island Sites

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Botanical Gardens - Pfizer Lab	7094-10	8,697	99	1	.076 [08/21, 10]	.072 [05/30, 10]	.070 [07/19, 10]	.068 [07/17, 11]	.079 [07/07]	.076 [05/28]	.068 [07/17]	.074
IS 52	7094-07	8,352	95	0	.074 [07/17, 11]	.073 [07/19, 11]	.072 [06/24, 09]	.071 [05/30, 10]	xxx	(.068) [08/17]	.071 [05/30]	---
Susan Wagner (Operated 01/01 - 11/12)	7097-01	7,506	99	1	.086 [07/17, 11]	.073 [07/09, 10]	.071 [07/19, 09]	.071 [08/21, 10]	.087 [07/22]	.078 [06/28]	.071 [08/21]	.078 +

(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

OZONE - Continuous UV Light Absorption

NYSDEC Region **2**

Manhattan and Queens Sites

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
CCNY	7093-25	8,579	98	0	.073 [07/17, 11]	.069 [08/21, 10]	.063 [07/19, 10]	.062 [05/30, 11]	.080 [06/08]	.074 [07/06]	.062 [05/30]	.072
Queens College 2	7096-15	8,389	96	2	.080 [07/19, 10]	.079 [07/17, 10]	.072 [07/09, 10]	.071 [07/18, 10]	.084 [06/07]	.082 [08/31]	.071 [07/18]	.079 +

(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

NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region **2**

Annual Averages 2003 through 2013

Annual Arithmetic Mean (PPB) - Primary Standard
(12 month average not to exceed 53 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06/ 7094-10	26.68	24.37	26.59	24.82	24.55	22.91	21.85	20.10	20.86	18.6	18.37
IS 52	7094-07	30.19	29.67	28.79	26.46	25.65	25.18	24.57	(24.94)	xxx	(20.8)	20.67
Queens College 2	7096-15	26.72	24.74	24.52	23.46	22.94	22.51	20.91	19.28	(21.62)	17.5	17.5

Sampling was terminated at 7096-09 on 01/05/06 and at 7093-10 on 06/30/08. Sampling was suspended at 7094-07 on 06/24/10 due to building construction, and resumed on 08/10/13.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One-Hour Averages - average of 98 th percentile for last 3 years not to exceed 100 PPB *								
		Observations		98 th Percentile, PPB				Highest Values, PPB		
Station	Site No.	Total	% Avail	2011	2012	2013	3-yr avg	1st	2nd	3rd
Botanical Gardens - Pfizer Lab	7094-10	8,633	99	60.7	59.2	59.1	59.7	73.3 [05/29, 20]	72.7 [01/09, 10]	65.9 [05/16, 21]
IS 52	7094-07	8,434	96	xx	(20.8)	60.4	--	85.6 [01/09, 10]	74.9 [01/09, 09]	72.8 [02/11, 07]
Queens College 2	7096-15	8,429	96	66.3	56.6	58.6	60.5	80.7 [01/09, 08]	70.4 [01/09, 07]	63.4 [04/08, 07]

(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

LEAD -PM₁₀ Samplers

NYSDEC Region 2

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

		24-Hour Concentrations - µg/m ³								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 µg/m ³ , effective beginning 1/1/13 * (the old standard of 1.5 µg/m ³ will remain in force until that date)		
				Maximum		2nd Max.		3rd Max.		Highest Values, µg/m ³		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2011	2012	2013
Morrisania	7094-05	xx	xx	xx	xx	xx	xx	xx	xx	0.008	--	xx
IS 52	7094-07	58	95	.0127	09/19	.0117	02/15	.0102	04/10	xx	--	0.005

Sampling at 7094-05 was terminated on 06/30/12 and monitor moved back to 7094-07.

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

*Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **3**

Annual Averages 2003 through 2013
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Mt. Ninham	3951-01	2.41	2.22	2.18	1.67	1.53	1.33	1.14	0.80	0.86	0.73	0.72
Belleayre Mtn.	5565-03	1.68	1.27	1.38	1.25	1.19	0.90	0.71	0.50	0.52	0.31	xxx

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Mt. Ninham	3951-01	8440	96	6.0	7.1	10.6	7.9
Belleayre Mtn.	5565-03	xx	xx	xx	3.9	7.0	xx

(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 NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **3**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Newburgh (F)	3502-04	113	28.7 [12/03]	20.5 [01/28]	19.6 [10/31]	19.6	20.2	20.8	20.2	6.8	6.7	(7.0)	7.7	7.1	7.8	8.6	--
Newburgh (T)	3502-04	350	25.2 [12/03]	23.1 [01/09]	23.0 [12/04]	19.1	19.3	20.9	19.8	8.3	5.7	6.4	7.7	7.0	7.5	8.4	7.6
Rockland Co. (T)	4352-02	353	29.4 [07/19]	27.8 [07/20]	27.4 [09/11]	19.4	18.7	22.3	20.1	8.1	6.9	8.1	8.0	7.8	7.4	8.1	7.8
White Plains (T)	5902-04	315	29.2 [09/11]	28.7 [07/19]	24.3 [01/09]	20.3	18.8	24.5	21.2	(8.3)	7.0	8.0	8.6	(8.0)	7.2	9.0	--

(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

OZONE - Continuous UV Light Absorption

NYSDEC Region **3**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Valley Central	3527-01	8,243	92	0	.060 [07/27, 11]	.060 [09/20, 11]	.057 [04/28, 11]	.057 [09/11, 09]	.067 [05/26]	.065 [08/04]	.057 [09/11]	.063
Rockland County	4353-02	8,651	99	1	.083 [09/11, 11]	.075 [05/31, 11]	.071 [07/19, 11]	.069 [06/27, 10]	.074 [06/28]	.079 [08/09]	.069 [06/27]	.074
White Plains	5902-04	8,678	99	2	.081 [09/11, 08]	.079 [07/19, 10]	.075 [07/09, 11]	.072 [05/31, 09]	.076 [07/11]	.079 [08/31]	.072 [05/31]	0.75
Millbrook	1328-01	8,527	97	0	.070 [09/11, 11]	.067 [04/28, 11]	.067 [05/31, 13]	.065 [07/27, 11]	.072 [06/07]	.075 [08/09]	.065 [07/27]	.070
Mt. Ninham	3951-01	8,503	99	0	.073 [05/31, 11]	.068 [09/11, 09]	.067 [04/28, 11]	.067 [07/27, 10]	.068 [06/28]	.069 [08/25]	.067 [07/27]	.068
Belleayre Mtn.	5565-03	xx	xx	xx	xx	xx	xx	xx	.071 [06/07]	.067 [07/13]	xx	--

(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

LEAD - High Volume Air Samplers (Glass Fiber Filters)

NYSDEC Region **3**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		24-Hour Concentrations - $\mu\text{g}/\text{m}^3$								THREE MONTH ROLLING AVERAGES Maximum not to exceed $0.15 \mu\text{g}/\text{m}^3$, effective beginning 1/1/13 * (the old standard of $1.5 \mu\text{g}/\text{m}^3$ will remain in force until that date)		
				Maximum		2nd Max.		3rd Max.		Highest Values, $\mu\text{g}/\text{m}^3$		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2011	2012	2013
Wallkill	3566-02	54	88	.099	06/27	.077	10/25	.074	04/10	0.10	0.02	0.03
Wallkill	3566-09	58	95	1.000	03/23	.116	08/14	.113	03/29	1.03	0.06	0.11
Scotchtown	3566-11	58	95	.036	09/07	.009	02/03	.008	01/28	0.01	0.01	0.01

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

* Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **4**

Annual Averages 2003 through 2013
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Loudonville	0101-33	4.06	4.36	5.15	5.07	2.97	3.61	3.85	2.33	1.92	0.97	2.03
Schenectady	4601-05	3.30	3.82	5.16	5.35	2.33	3.42	2.63	1.92	(2.18)	xxx	xxx
Grafton State Park	4153-04	1.98	1.57	1.85	1.37	1.58	1.77	1.52	1.12	1.13	(0.76)	xxx

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 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Loudonville	0101-33	8428	96	8.5	8.8	15.3	10.9
Grafton State Park	4153-04	xx	xx	xx	4.7	11.3	xx

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region 4

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Albany Co. HD (F)	0101-13	112	26 [12/03]	23.2 [12/18]	19.5 [10/31]	19.5	17.7	23.5	20.2	6.4	6.6	7.4	8.1	7.1	7.7	8.7	7.8
Albany Co. HD (T)	0101-13	304	26.9 [01/08]	23.1 [01/09]	22.8 [12/03]	19.3	17.3	20.2	18.9	(7.6)	5.5	6.3	7.7	6.8	6.8	8.2	(7.3)
Loudonville (F)	0101-33	103	23.3 [12/03]	19.0 [10/31]	16.7 [05/31]	16.7	17.8	18.1	17.5	(5.1)	7.1	6.7	6.9	(6.4)	7.0	7.1	(6.8)

(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

NYSDEC Region **4**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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		
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	Days > 9PPM
Loudonville	0101-33	8,618	98	0	1.2 [10/30, 23]	1.0 [12/05, 03]	.9 [01/09, 03]	8,650	0	.8 [10/17, 21]	.8 [12/03, 06]	0

(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: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region **4**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Loudonville	0101-33	8,662	99	0	.069 [06/21, 11]	.065 [04/28, 13]	.065 [05/02, 12]	.064 [05/01, 10]	.065 [06/08]	.073 [04/16]	.064 [05/01]	.067
Grafton Lake	4153-04	xx	xx	xx	.086 [07/13, 15]	.080 [04/16, 19]	.078 [07/14, 15]	.076 [06/29, 10]	.061 [07/23]	.069 [04/16]	xx	--

(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

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **5**

Annual Averages 2003 through 2013

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Whiteface Mtn. - Lodge	1567-04	0.98	0.83	1.05	0.98	0.91	0.82	0.64	0.72	0.73	0.61	0.36
Paul Smiths College	1655-01	-	0.92	1.21	0.89	0.96	0.75	0.60	0.57	0.67	0.50	(0.52)
Piseco Lake	2050-01	1.06	0.83	0.66	0.62	0.65	0.56	0.44	0.34	0.32	0.14	0.17

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
		Station	Site No.	Total Obs.	% Avail	2013	2012
Whiteface Mtn. - Lodge	1567-04	8,420	96	2.6	3.2	5.4	3.7
Paul Smiths College	1655-01	7,987	91	2.8	3.8	4.5	3.7
Piseco Lake	2050-01	8,575	98	2.6	2.8	5.3	3.6

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **5**
(Manhattan Sites)

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Whiteface Base (F)	1567-04	59	13.6 [08/20]	11.7 [08/26]	10.3 [06/27]	11.7	15.3	14.4	13.8	3.1	4.1	6.6	3.8	4.4	4.4	4.2	4.3
Whiteface Base (T)	1567-04	286	19.4 [07/07]	18.0 [06/23]	17.9 [09/10]	16.3	13.4	14.0	14.6	3.7	(5.3)	6.3	3.9	(4.8)	4.6	4.8	(4.7)

(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

OZONE - Continuous UV Light Absorption

NYSDEC Region **5**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Stillwater	4567-01	8,643	98	0	.068 [05/01, 11]	.063 [09/11, 10]	.062 [04/28, 14]	.062 [05/31, 11]	.066 [06/07]	.068 [07/12]	.062 [05/31]	.065
Whiteface Mtn. Summit	1567-03	8,433	96	0	.070 [08/20, 22]	.067 [08/21, 00]	.066 [07/07, 00]	.065 [07/06, 23]	.064 [10/10]	.082 [07/13]	.065 [07/06]	.070
Whiteface Mtn. Base	1567-04	8,383	96	0	.070 [08/20, 20]	.065 [08/21, 00]	.064 [05/02, 07]	.063 [06/24, 22]	.064 [07/21]	.071 [05/12]	.063 [06/24]	.066
Piseco Lake	2050-01	8,607	97	0	.065 [05/01, 12]	.064 [05/06, 12]	.064 [06/22, 10]	.063 [05/02, 11]	.064 [06/01]	.070 [07/17]	.064 [05/02]	.066

(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

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **6**

Annual Averages 2003 through 2013
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Nick's Lake	2167-03	0.96	0.89	0.90	0.89	0.90	0.63	0.52	0.54	0.48	0.65	0.60

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Nick's Lake	2167-03	8,247	94	2.9	3.2	5.3	3.8

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **6**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Utica (T)	3202-01	336	26.8 [01/29]	25.5 [01/08]	23.4 [12/02]	18.5	17.4	22.2	19.4	9.2	5.3	6.1	7.3	7.0	7.2	7.8	7.3

(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

OZONE - Continuous UV Light Absorption

NYSDEC Region **6**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Nick's Lake	2167-03	8,622	98	0	.068 [05/02, 11]	.064 [05/01, 09]	.062 [05/06, 09]	.061 [04/28, 09]	.058 [04/12]	.065 [07/14]	.061 [04/28]	.061
Perch River	2223-01	8,683	98	0	.068 [05/30, 13]	.068 [06/24, 12]	.066 [05/01, 12]	.066 [05/02, 10]	.069 [06/08]	.077 [06/21]	.066 [05/02]	.070
Camden	3255-01	xx	xx	xx	xx	xx	xx	xx	.060 [07/21]	.069 [07/13]	xx	--

(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

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region 7

Annual Averages 2003 through 2013

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Camp Georgetown	2655-01	248	2.30	2.39	2.06	1.85	1.79	1.17	1.09	0.52	xxx	xxx
East Syracuse	3353-09	3.32	2.62	2.35	2.23	2.11	2.06	1.23	0.92	0.88	0.88	0.61

Sampling at 2655-01 was suspended on 04/02 when the correctional facility was shuttered leaving the site without power.

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Camp Georgetown	2655-01	xxx	xx	xx	xx	8.1	--
East Syracuse	3353-09	8,131	93	5.1	7.1	8.6	6.9

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **7**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³*;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³*, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
East Syracuse (F)	3353-09	114	19.5 [12/03]	18.0 [08/20]	16.2 [09/10]	16.2	16.0	24.1	18.8	5.7	6.2	7.4	6.4	6.4	7.3	8.1	7.3

(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

OZONE - Continuous UV Light Absorption

NYSDEC Region **7**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Camp Georgetown	2655-01	xxx	xx	--	xxx	xxx	xxx	xxx	.064 [07/23]	xxx	xxx	xxx
East Syracuse	3353-09	8,257	95	0	.068 [08/20, 10]	.067 [06/22, 10]	.065 [04/28, 11]	.065 [05/01, 11]	.069 [07/23]	.074 [06/21]	.065 [05/01]	.069
Fulton/Granby	3754-01	8,662	99	0	.065 [05/01, 11]	.065 [05/02, 12]	.064 [05/06, 10]	.063 [04/28, 11]	.067 [07/21]	.073 [07/04]	.063 [07/21]	.067

(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

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **8**

Annual Averages 2002 through 2013

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Elmira	0701-05	4.06	3.31	3.18	3.12	3.29	2.80	2.01	2.08	1.65	1.48	xx
Rochester	2701-22	--	(4.50)	4.20	4.18	4.06	2.91	2.54	2.19	(1.15)	0.99	0.91
Pinnacle	5001-04	--	--	--	--	1.73	1.67	1.04	0.63	0.71	0.39	0.39

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Elmira	0701-05	8,536	97	xx	6.7	11.0	xx
Rochester	2701-22	8,604	98	17.3	21.2	22.0	20.2
Pinnacle	5001-04	8,553	98	8.4	8.1	14.8	10.4

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

INHALABLE PARTICULATES (PM₁₀) - R&P Model 2025 Sampler

NYSDEC Region **8**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		24-Hour Concentrations - $\mu\text{g}/\text{m}^3$							# of Days > 150 $\mu\text{g}/\text{m}^3$ - Not to exceed an expected avg of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.			2011		2012		2013		
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp Avg
Rochester (R&P)	2701-22	54	26	8/20	24	1/28	24	7/03	0	0.0	0	0.0	0	0.0	0.0

(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 NYS/Federal AAQS

INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **8**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Rochester 2 (F)	2701-22	117	20.4 [09/10]	18.5 [08/20]	18.0 [12/03]	18.0	20.5	25.3	21.3	6.2	6.8	9.4	6.5	7.2	8.6	9.2	8.3
Rochester 2 (T)	2701-22	338	22.9 [09/10]	22.7 [01/08]	21.6 [09/11]	19.4	16.6	17.1	17.7	8.0	6.2	8.9	8.3	7.8	6.8	6.8	7.1
Pinnacle (F)	5001-04	105	21 [12/03]	18.4 [09/10]	14.8 [10/31]	14.8	18.9	20.4	18.0	4.9	(5.2)	7.1	5.7	(5.7)	6.8	7.0	(6.5)

(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

NYSDEC Region **8**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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		
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	Days> 9PPM
Rochester 2	2701-22	8,603	98	0	1.1 [01/08, 20]	1.1 [01/08, 19]	1.0 [01/08:, 18]	8,625	0	.9 [01/08, 23]	.8 [12/29, 00]	0
Pinnacle	5001-04	8,272	94	0	.6 [01/25, 10]	.5 [08/24, 00]	.4 [08/23, 23]	8,243	0	.4 [08/24, 05]	.4 [08/25, 04]	0

(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: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region **8**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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</i> from 0.08 ppm on 5/27/08*			
		Observations			Daily Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	Days >.075 PPM	1st	2nd	3rd	4th	2011	2012	2013	Avg
Elmira	0701-05	xx	xx	xx	.084 [08/25, 11]	.080 [06/10, 14]	.077 [06/11, 16]	.073 [07/04, 15]	.065 [06/09]	.071 [06/28]	xx	--
Rochester 2	2701-22	8,585	98	0	.065 [05/02, 13]	.065 [05/06, 12]	.064 [05/29, 16]	.064 [06/23, 12]	.066 [06/07]	.075 [07/13]	.064 [06/23]	.068
Pinnacle	5001-04	7,717	89	0	.065 [05/15, 12]	.063 [04/28, 09]	.063 [08/21, 10]	.061 [06/22, 10]	.067 [06/01]	.066 [08/31]	.061 [06/22]	.064
Williamson (Operated 03/21 - 12/31)	5863-01	7,278	100	0	.068 [05/02, 13]	.068 [05/06, 12]	.068 [08/20, 10]	.066 [05/30, 09]	.058 [06/08]	.072 [06/10]	.066 [05/30]	.065

(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

LEAD -PM₁₀ Samplers

NYSDEC Region **8**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

		24-Hour Concentrations - µg/m ³								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 µg/m ³ , effective beginning 1/1/13 * (the old standard of 1.5 µg/m ³ will remain in force until that date)		
				Maximum		2nd Max.		3rd Max.		Highest Values, µg/m ³		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2011	2012	2011
Rochester (PM ₁₀)	2701-22	56	92	.006	05/28	.005	04/28	.005	08/26	0.002	0.003	.003

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

*Federal Ambient Air Quality Standard

+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **9**

Annual Averages 2002 through 2012

Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Buffalo	1401-18	5.47	3.35	3.73	2.78	2.70	2.34	1.74	1.50	2.01	2.72	(2.4)
Tonawanda	1472-04	8.89	7.87	5.83	3.93	4.29	xxx	xxx	xxx	xxx	xxx	xxx
Brookside Terrace	1472-14	--	--	--	--	(2.80)	2.83	2.10	1.83	3.43	2.11	2.82
Niagara Falls	3102-25	3.56	2.73	2.63	2.48	2.79	2.13	1.58	1.53	2.74	3.47	xxx

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Buffalo	1401-18	7,243	83	8.5	13.6	22.4	14.8
Brookside Terrace	1472-14	8,585	98	19.5	26.2	28.9	24.9
Niagara Falls	3102-25	xx	xx	xx	12.0	12.3	xx

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

[Date of Occurrence, Hour]

*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.

+ Denotes a contravention of NYS/Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **9**

Annual Averages 2002 through 2012
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 30 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Westfield	0675-01	4.26	3.49	3.49	2.70	2.74	2.51	1.73	1.32	1.22	0.98	xx
Dunkirk	0601-04	6.69	5.31	4.32	3.13	3.27	2.67	2.55	1.54	1.72	1.30	1.03

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 PPB *					
		Observations		99 th Percentile, PPB			
Station	Site No.	Total Obs.	% Avail	2013	2012	2011	3-yr avg
Westfield	0675-01	xx	xx	xx	15.9	17.1	xx
Dunkirk	0601-04	8,397	96	15.4	26.2	25.8	22.5

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

[Date of Occurrence, Hour]

*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.

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INHALABLE PARTICULATES (PM_{2.5}) - Rupprecht & Patashnick Sampler

NYSDEC Region **9**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

(Average of last 3 years' annual means not to exceed 15 µg/m³ *;
and average of 98th percentile for last 3 years not to exceed 35 µg/m³ *, *changed* from 65 µg/m³ on 12/17/06)

Station	Site No.	Total Obs.	Maximum Values, µg/m ³			98th Percentile, µg/m ³				Quarterly Averages, 2013				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2013	2012	2011	3-yr avg	1 st	2 nd	3 rd	4 th	2013	2012	2011	3-yr avg
Buffalo (F)	1401-18	115	24.4 [09/10]	21.2 [06/24]	20.4 [08/20]	20.4	19.5	24.6	21.5	7.2	8.0	9.9	7.0	8.0	9.4	9.6	9.0
Buffalo (T)	1401-18	327	28.6 [09/10]	27.4 [09/11]	22.2 [06/22]	21.2	20.8	22.0	21.3	(10.1)	8.0	10.2	8.9	9.3	9.5	8.9	9.2
Grand Island Blvd (T)	1472-13	174	33.8 [09/10]	33.2 [09/11]	25.3 [09/20]	(20.6)	22.1	24.8	(22.5)	(12.6)	(7.3)	(10.4)	9.8	(10.0)	10.2	9.9	(10.0)
Brookside Terrace (T)	1472-14	328	21.8 [05/28]	21.8 [06/29]	21.3 [06/10]	19.4	20.3	23.5	21.1	7.6	7.0	9.0	(8.9)	(8.1)	8.8	9.2	(8.7)
Niagara Falls (F)	3102-25	23	19.1 [02/06]	15.3 [02/03]	15.2 [03/14]	(19.1)	20.2	19.9	--	8.4	xx	xx	xx	--	8.3	8.1	--
Niagara Falls (T)	3102-25	xx	xx	xx	xx	xx	21.1	26.8	--	xx	xx	xx	xx	xx	9.8	10.1	--
Westfield (F)	0675-01	16	9.5 [04/07]	6.1 [03/05]	6.0 [01/01]	--	19.5	21.6	--	(4.2)	(5.5)	xx	xx	xx	7.6	7.3	--
Dunkirk (F)	0601-04	77	22.4 [09/10]	17.5 [06/24]	17.0 [08/20]	17.5	xx	xx	--	xx	6.9	9.1	6.6	--	xx	xx	--

TEOM sampling at 3102-25 was terminated on 12/31/12, and FRM on 4/01/13. Sampling resumed on 4/4/13 at 0601-04.

(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

NYSDEC Region **9**

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2013

		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		
Station	Site No.	Total Obs.	% Avail	>35 PPM	1st	2nd	3rd	Total	>9 PPM	1st	2nd	Days> 9PPM
Buffalo	1401-18	8,165	93	0	1.9 [12/03, 03]	1.9 [12/03, 06]	1.8 [12/03, 04]	8,126	0	1.8 [12/03, 08]	1.3 [12/02, 10]	0

(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: 9PPM standard is not exceeded unless 8-hour avg > 9.4 PPM)

OZONE - Continuous UV Light Absorption

NYSDEC Region 9

Annual Averages 2002 through 2012
Annual Arithmetic Mean (ppm)

Station	Site No.	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Westfield	0675-01	.038	.034	.033	.035	.034	.036	.034	.034	.038	.035	.036
Dunkirk	0604-01	.034	.033	.032	.033	.033	.034	.032	.031	.034	.031	.033
Amherst	1451-03	.031	.028	.028	.030	.028	.030	.029	.029	.031	.028	.031
Middleport	3120-02	.034	.034	.030	.036	.032	.036	.033	.031	.034	.035	.036

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

		One Hour Averages							4th Highest Daily Maximum 8-Hour Average- Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed</i> from 0.08 ppm on 5/27/08*			
		Observations			Highest Values, PPM							
Station	Site No.	Total Obs.	% Avail	>.12 PPM	1st	2nd	3rd	4th	2010	2011	2012	Avg
Westfield	0675-01	8,477	97	0	.114 [06/28, 17]	.095 [08/24, 15]	.090 [07/12, 16]	.089 [06/29, 01]	.075 [04/01]	.073 [07/06]	.081 [07/12]	.076 +
Dunkirk	0604-01	8,630	99	0	.103 [06/28, 19]	.093 [06/10, 16]	.093 [08/24, 17]	.091 [08/03, 17]	.080 [07/07]	.069 [05/31]	.081 [08/03]	.077 +
Amherst	1451-03	8,084	92	0	.095 [06/28, 17]	.090 [06/10, 15]	.086 [08/03, 17]	.086 [08/31, 16]	.072 [07/07]	.068 [08/13]	.079 [08/24]	.073
Middleport (Operated 03/23 - 10/12)	3120-02	4,826	90	0	.105 [06/28, 18]	.091 [06/10, 16]	.090 [07/06, 16]	.089 [07/13, 14]	.071 [04/15]	.073 [07/23]	.082 [08/31]	.075

(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

NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region **9**

Annual Averages 2002 through 2012

Annual Arithmetic Mean (PPB) - Primary Standard (12 month average not to exceed 53 PPB *)

Station	Site No.	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Buffalo	1401-18	19.82	18.16	18.92	15.53	16.41	15.05	13.88	13.00	(12.52)	10.46	(10.38)
Amherst	1451-03	13.06	11.99	12.66	10.51	10.23	(9.71)	(7.42)	8.19	8.32	6.44	xx

Comparison Between NYS Ambient Air Quality and Ambient Air Quality Standards for Calendar Year 2012

		One-Hour Averages - average of 98 th percentile for last 3 years not to exceed 100 PPB *								
		Observations		98 th Percentile, PPB				Highest Values, PPB		
Station	Site No.	Total	% Avail	2011	2012	2013	3-yr avg	avg	2nd	3rd
Buffalo	1401-18	6,389	73	53.6	45.6	(46.6)	(48.6)	52.1 [12/16, 20]	51.8 [12/16, 19]	51.2 [09/19, 19]
Amherst	1451-03	xx	xx	49.5	31.9	xx	--	xx	xx	xx

Sampling at 1451-03 was suspended 12/31/12.

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

*New York and Federal Ambient Air Quality Standard + Denotes a contravention of NYS/Federal AAQS