

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region **1**

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
Eisenhower Park	2950-10	4.16	3.86	3.73	4.72	3.45	2.09	1.97	(1.15)	(1.12)	1.35	1.03
Holtsville	5151-10	7.26	3.74	4.54	4.82	3.81	3.95	2.22	(1.03)	(1.20)	0.84	0.77

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 2015

		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	2015	2014	2013	3-yr Avg.
Eisenhower Park	2950-10	8,618	98	6.0	9.6	6.0	7.2
Holtsville	5151-10	8,315	95	7.1	10.2	9.0	8.8

(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 **1**

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Eisenhower Park (T)	2950-10	346	24.9 [12/12]	24.3 [06/11]	23.0 [09/03]	17.8	19.2	23.9	20.3	9.3	6.1	6.7	7.0	7.3	7.4	8.7	7.8
Babylon (F)	5150-01	104	23.3 [09/03]	21.5 [06/11]	21.5 [06/11]	21.5	20.0	21.4	20.97	8.2	6.5	9.1	6.0	7.4	7.5	7.6	7.5
Holtsville (T)	5151-10	331	26.8 [07/05]	25.9 [09/03]	23.2 [07/04]	18.3	18.6	20.3	19.07	9.1	5.5	7.0	6.7	7.7	7.1	8.2	7.7

(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 **1**

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

		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> to 0.070 ppm beginning 1/1/2016*			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Babylon	5150-02	8,633	97	5	.085 [09/17]	.079 [08/15]	.079 [08/16]	.078 [07/20]	.072 [07/11]	.066 [08/27]	.078 [07/20]	.072
Holtsville	5151-10	7,521	78	1	.077 [09/17]	.071 [07/29]	.070 [07/20]	.063 [09/18]	.074 [06/24]	.062 [08/05]	.063 [09/18]	.066
Riverhead (Operated 03/12-11/14)	5155-01	4,966	97	4	.079 [09/17]	.076 [07/29]	.076 [08/01]	.076 [08/15]	.078 [06/24]	.064 [05/26]	.076 [08/15]	.072

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 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
PS 59	7093-10	11.18	9.65	9.75	(10.81)	xx	xx	xx	xx	xx	xx	xx
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06 / 7094-10	9.33	6.65	6.67	5.96	5.32	4.83	4.65	3.28	2.44	1.9	1.29
IS 52	7094-07	10.91	8.83	7.86	6.58	6.33	(6.22)	xx	(2.10)	1.22	1.36	1.83
Queens College 2	7096-15	6.48	5.24	4.89	4.02	3.41	2.83	2.65	1.79	1.22	1.11	0.75

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 2015

		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	2015	2014	2013	3-yr Avg.
Botanical Garden (Pfizer Lab)	7094-10	8,575	98	10.5	15.2	21.8	15.8
IS 52	7094-07	8,592	98	12.6	13.1	16.7	14.1
Queens College 2	7096-15	8,590	98	9.3	12.2	11.8	11.1

(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 2015

		24-Hour Concentrations - µg/m ³							# of Days > 150 µg/m ³ - Not to exceed an expected avg of one per year during the last 3 years *						
		Total Obs.	Maximum		2nd Max.		3rd Max.		2013		2014		2015		Exp. Avg.
Station	Site No.		Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	
Division Street	7093-24	60	45	06/11	44	09/03	39	10/21	0	0.0	0	0.0	0	0.0	0.0
IS 52	7094-07	60	42	06/11	39	03/25	39	09/03	0	0.0	0	0.0	0	0.0	0.0
Queens College 2	7096-15	58	40	09/03	38	06/11	31	03/07	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 2015

(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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr avg	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
JHS 45 (F)	7093-08	112	26.7 [09/03]	26.4 [06/11]	25.5 [03/10]	25.5	25.5	20.1	23.7	11.5	8.5	9.3	7.0	9.1	8.8	8.6	8.8
IS 143 (T)	7093-15	345	29.1 [06/11]	28.7 [03/04]	27.0 [09/03]	22.4	22.1	xx	xx	13.9	8.6	8.6	9.3	10.1	9.3	xx	xx
PS 19 (F)	7093-21	118	28.0 [02/05]	28.0 [02/05]	26.7 [06/11]	26.7	25.6	26.3	26.2	14.3	9.8	10.2	9.6	11.0	(10.6)	(11.3)	(10.9)
PS 19 (T)	7093-21	360	27.9 [06/11]	27.1 [09/03]	26.3 [12/12]	20.3	20.8	25.5	22.2	11.9	7.1	8.3	8.9	9.1	9.0	(10.6)	(9.6)
Division St (F)	7093-24	120	27.7 [06/11]	27.6 [09/03]	26.2 [02/08]	26.2	20.5	25.0	23.9	12.1	9.4	10.4	9.1	10.3	(9.8)	(9.5)	(9.8)
Division St (T)	7093-24	360	29.6 [06/11]	28.9 [09/03]	25.1 [12/12]	19.4	20.6	24.3	21.4	10.3	7.5	8.6	8.8	8.8	8.7	(9.1)	(8.8)
CCNY (T)	7093-25	338	26.7 [06/11]	25.7 [09/03]	24.9 [12/12]	21.3	18.8	23.1	21.1	10.0	7.0	8.1	8.0	8.3	7.6	8.1	8.0

(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**
(Bronx & Brooklyn Sites)

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr avg	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Morrisania (T)	7094-05	349	26.3 [06/11]	26.1 [02/18]	25.0 [01/18]	23.2	24.9	29.8	26.0	12.8	7.0	7.6	7.3	8.7	9.5	11.9	10.0
IS 52 (F)	7094-07	117	26.1 [09/03]	25.7 [02/08]	25.7 [02/08]	25.7	23.2	25.5	24.8	11.3	8.2	9.4	7.7	9.1	8.7	9.0	8.9
IS 52 (T)	7094-07	350	28.5 [03/10]	25.7 [06/11]	25.6 [12/12]	24.1	16.2	25.6	22.0	9.5	7.7	8.1	6.8	8.0	7.0	xx	xx
IS 74 (T)	7094-08	323	29.3 [09/03]	28.1 [06/11]	24.3 [12/12]	20.5	19.6	21.0	20.4	10.9	7.2	7.3	8.4	8.5	7.8	(8.4)	(8.2)
Botanical Gdn - Pfizer (F)	7094-10	119	26.5 [06/11]	26.2 [09/03]	25.5 [07/05]	25.5	27.2	24.6	25.8	12.1	8.7	9.9	7.6	9.6	9.3	9.1	9.3
PS 314 (T)	7095-07	353	28.8 [09/03]	25.8 [06/11]	23.5 [12/12]	18.8	16.5	24.4	19.9	9.4	6.3	7.5	7.2	7.6	7.2	8.2	7.7
JHS 126 (F)	7095-43	113	27.2 [09/03]	25.4 [06/14]	25.2 [02/08]	25.2	20.0	23.7	23.0	11.6	8.3	9.4	7.5	9.2	8.8	9.3	9.1
PS 274 (T)	7095-98	347	28.5 [09/03]	26.3 [06/11]	24.0 [12/12]	18.0	16.2	20.4	18.2	9.0	6.3	7.2	7.1	7.4	7.1	(6.9)	(7.1)

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)

F = Federal Reference Method

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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 2015

(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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr avg	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Maspeth Library (T)	7096-13	349	30.6 [06/11]	28.7 [09/03]	25.0 [05/11]	18.4	18.3	19.9	18.9	9.7	7.3	7.3	7.9	8.0	7.7	8.6	8.1
Queens College 2 (F)	7096-15	343	29.0 [12/12]	28.1 [12/07]	26.8 [09/03]	22.7	19.7	25.0	22.5	9.9	7.0	8.3	7.0	8.1	7.8	8.4	8.1
Queens College 2 (T)	7096-15	361	28.9 [12/12]	28.8 [12/07]	26.7 [09/03]	21.6	20.0	24.9	22.2	8.8	7.1	8.1	6.8	7.7	7.6	8.7	8.0
Port Richmond (F)	7097-03	117	27.4 [02/08]	27.0 [02/08]	24.7 [06/11]	24.7	17.9	18.3	20.3	10.3	7.8	9.0	7.3	8.6	8.6	7.7	8.3
Port Richmond (T)	7097-03	336	32.1 [09/03]	26.7 [12/12]	22.5 [12/13]	20.2	(20.7)	24.6	(21.8)	10.7	7.9	9.8	8.6	9.3	(9.3)	(9.6)	xx
Freshkills West (T)	7097-17	326	32.7 [09/03]	28.1 [06/11]	25.9 [12/12]	21.0	(16.6)	20.9	(19.5)	9.3	7.0	8.4	8.1	8.2	(7.9)	(7.5)	xx

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

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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 2015

		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> 9 ppm
CCNY	7093-25	8,405	96	0	2.7 [03/10, 08]	2.3 [03/10, 07]	2.1 [03/10, 09]	8,446	0	1.8 [03/10, 11]	1.5 [12/02, 16]	0
Botanical Gardens (Pfizer Lab)	7094-10	8,640	99	0	2.1 [02/04, 19]	2.0 [03/10, 07]	1.9 [01/28, 17]	8,709	0	1.6 [01/29, 00]	1.6 [03/10, 08]	0
Queens College 2	7096-15	8,497	97	0	2.1 [03/10, 07]	1.9 [03/10, 08]	1.8 [11/04, 00]	8,343	0	1.2 [03/10, 08]	1.4 [11/03, 07]	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 2015

		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> to 0.070 ppm beginning 1/1/2016*			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Botanical Gardens - Pfizer Lab	7094-10	8,682	98	1	.081 [09/17, 10]	.075 [08/15, 10]	.074 [06/11, 11]	.072 [08/17, 10]	.068 [07/17]	.070 [06/17]	.072 [08/17]	.070
IS 52	7094-07	8,526	98	1	.078 [09/17, 10]	.073 [08/15, 10]	.065 [09/18, 10]	.063 [07/29, 10]	.071 [05/30]	.071 [08/05]	.063 [07/29]	.068
Susan Wagner (Operated 01/01 - 11/12)	7097-01	6,016	97	4	.085 [09/17, 11]	.081 [09/03, 13]	.080 [06/11, 11]	.079 [07/28, 10]	.071 [08/21]	.072 [06/02]	.079 [07/28]	.074

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

*Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

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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 2015

		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> to 0.070 ppm beginning 1/1/2016*			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
CCNY	7093-25	8,594	99	1	.077 [09/17, 11]	.074 [08/15, 10]	.073 [06/11, 11]	.071 [07/29, 10]	.062 [05/30]	.065 [07/08]	.071 [07/29]	.066
Queens College 2	7096-15	8,584	98	3	.081 [06/11, 11]	.079 [09/17, 11]	.076 [08/15, 11]	.073 [08/16, 09]	.071 [07/18]	.063 [07/08]	.073 [08/16]	.069

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

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

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NITROGEN DIOXIDE - Continuous Chemiluminescence

NYSDEC Region **2**

Annual Averages 2005 through 2015
Annual Arithmetic Mean (ppb) - Primary Standard
(12 month average not to exceed 53 ppb *)

Station	Site No.	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Botanical Garden (Harding Lab/Pfizer Lab)	7094-06/ 7094-10	26.59	24.82	24.55	22.91	21.85	20.10	20.86	18.6	18.37	17.2	17.16
IS 52	7094-07	28.79	26.46	25.65	25.18	24.57	(24.94)	xx	(20.8)	20.67	19.88	20.13
Queens College 2	7096-15	24.52	23.46	22.94	22.51	20.91	19.28	(21.62)	17.5	17.5	16.75	17.16

Sampling was terminated 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 2015

		One-Hour Averages - average of 98th percentile for last 3 years not to exceed 100 ppb *								
		Observations		98 th Percentile, ppb				Highest Values, ppb		
Station	Site No.	Total	% Avail	2013	2014	2015	3-yr avg.	1st	2nd	3rd
Botanical Gardens - Pfizer Lab	7094-10	8,616	98	59.1	56.2	60.7	58.7	78.1 [03/10, 08]	70.8 [02/04, 19]	70.0 [03/10, 07]
IS 52	7094-07	8,592	98	60.4	64.9	67.6	64.3	121.7 [03/10, 07]	93.5 [03/10, 08]	89.8 [03/10, 06]
Queens College 2	7096-15	8,287	95	58.6	58.5	63.4	60.2	97.8 [3/10, 07]	91.5 [03/10, 06]	81.6 [03/25, 06]

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

*New York and Federal Ambient Air Quality Standard

[Date of Occurrence, Hour]

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LEAD -PM₁₀ Samplers

NYSDEC Region **2**

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

		24-Hour Concentrations - µg/m ³								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 µg/m ³ .		
				Maximum		2nd Max.		3rd Max.		Highest Values, µg/m ³		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2013	2014	2015
IS 52	7094-07	60	100	.0181	04/24	.0118	03/25	.0078	10/21	0.005	0.004	.0061

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

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+ Denotes a contravention of Federal AAQS

SULFUR DIOXIDE - Continuous Pulsed Fluorescence

NYSDEC Region 3

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
Mt. Ninham	3951-01	2.18	1.67	1.53	1.33	1.14	0.80	0.86	0.73	0.72	0.63	0.59
Millbrook	1328-01	xx	xx	xx	xx	xx	xx	(0.97)	1.42	2.45	0.65	0.81
Belleayre Mtn.	5565-03	1.38	1.25	1.19	0.90	0.71	0.50	0.52	0.31	xx	xx	xx

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

		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	2015	2014	2013	3-yr Avg.
Mt. Ninham	3951-01	8,643	99	5.8	5.9	6.0	5.9
Millbrook	1328-01	8,632	99	4.5	(13.7)	(15.4)	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 2015

(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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Newburgh (F)	3502-04	111	22.0 [06/11]	20.5 [09/03]	20.0 [03/01]	20.0	19.3	19.6	19.6	9.0	6.6	8.1	5.9	7.4	7.2	7.1	7.2
Newburgh (T)	3502-04	338	25.3 [07/04]	22.8 [06/11]	20.9 [09/03]	17.0	15.1	19.1	17.1	8.6	5.9	7.1	6.1	6.9	6.5	7.0	6.8
Rockland Co. (T)	4352-02	345	29.5 [06/11]	25.0 [09/03]	21.4 [12/12]	19.5	16.4	19.4	18.4	8.8	6.1	7.5	6.7	7.3	6.6	7.8	7.2
White Plains (T)	5902-04	355	30.1 [06/11]	26.3 [09/03]	21.0 [12/12]	18.3	16.2	20.3	18.3	9.7	6.5	7.6	6.8	7.7	7.4	(8.0)	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

OZONE - Continuous UV Light Absorption

NYSDEC Region **3**

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

		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> to 0.070 ppm beginning 1/1/2016*			
		Observations		Daily Highest Values, ppm								
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Valley Central	3527-01	8,672	98	1	.084 [06/12, 11]	.074 [05/08, 10]	.074 [07/13, 12]	.072 [09/18, 11]	.057 [09/11]	.060 [07/12]	.072 [09/18]	.063
Rockland County	4353-02	8,704	99	4	.083 [06/12, 10]	.079 [07/13, 08]	.078 [05/08, 11]	.077 [09/18, 10]	.069 [06/27]	.068 [08/27]	.077 [09/18]	.071
White Plains	5902-04	8,702	98	2	.082 [09/17, 10]	.080 [09/18, 10]	.075 [08/17, 10]	.073 [09/02, 09]	.072 [05/31]	.074 [05/27]	.073 [09/02]	.073
Millbrook	1328-01	8,603	97	2	.080 [05/08, 12]	.076 [09/18, 12]	.069 [05/04, 09]	.067 [08/24, 13]	.065 [07/27]	.068 [08/20]	.067 [08/24]	.066
Mt. Ninham	3951-01	8,619	98	2	.082 [05/08, 11]	.078 [09/18, 11]	.070 [05/04, 10]	.069 [08/24, 12]	.067 [07/27]	.066 [08/20]	.069 [08/24]	.067

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

* 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 2015

		24-Hour Concentrations - $\mu\text{g}/\text{m}^3$								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 $\mu\text{g}/\text{m}^3$.		
				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	2013	2014	2015
Wallkill	3566-02	58	97	.079	10/27	.045	07/11	.036	12/08	0.03	0.02	0.01
Wallkill	3566-09	58	97	.082	11/20	.058	02/05	.058	02/23	0.11	0.02	0.02
Scotchtown	3566-11	58	97	.017	05/30	.009	11/26	.009	12/02	0.01	0.003	0.003

(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 **4**

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

		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	2015	2014	2013	3-yr Avg.
Loudonville	0101-33	8,607	98	7.0	7.7	8.5	7.7

(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 **4**

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	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)

(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 2015

		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	8,607	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]	.8 [11/09, 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 **4**

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

		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> to 0.070 ppm beginning 1/1/2016*			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Loudonville	0101-33	8,499	97	0	.069 [05/08, 10]	.067 [05/04, 10]	.067 [09/08, 09]	.063 [05/25, 13]	.064 [05/01]	.061 [05/26]	.063 [05/25]	.062

(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 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
Whiteface Mtn. - Lodge	1567-04	1.05	0.98	0.91	0.82	0.64	0.72	0.73	0.61	0.36	0.38	0.47
Paul Smiths College	1655-01	1.21	0.89	0.96	0.75	0.60	0.57	0.67	0.50	(0.52)	0.60	0.32
Piseco Lake	2050-01	0.66	0.62	0.65	0.56	0.44	0.34	0.32	0.14	0.17	0.21	0.16

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

		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	2015	2014	2013	3-yr Avg.
Whiteface Mtn. - Lodge	1567-04	8,159	93	3.6	3.9	2.6	3.4
Paul Smiths College	1655-01	7,875	90	3.2	3.7	2.8	3.2
Piseco Lake	2050-01	8,355	95	3.2	4.7	2.6	3.5

(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 **5**

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Whiteface Base (F)	1567-04	57	15.0 [09/03]	11.7 [03/07]	10.5 [07/05]	11.7	11.7	15.3	12.9	4.3	4.4	5.9	2.8	4.4	3.4	4.4	4.1
Whiteface Base (T)	1567-04	269	22.5 [09/02]	14.9 [09/03]	13.9 [09/07]	13.2	16.3	13.4	14.3	(5.9)	4.1	(6.3)	3.1	(4.9)	4.5	(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 2015

		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 beginning 1/1/2016*</i>			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2012	2013	2015	Avg.
Stillwater	4567-01	8,556	99	0	.072 [05/08, 11]	.067 [05/04, 11]	.062 [05/25, 15]	.061 [09/18, 11]	.062 [05/31]	.061 [05/27]	.061 [09/18]	.061
Whiteface Mtn. Summit	1567-03	8,433	98	0	.065 [05/03, 21]	.063 [05/04, 00]	.063 [05/24, 20]	.061 [05/25, 00]	.065 [07/06]	(.062) [05/12]	.061 [05/25]	.062
Whiteface Mtn. Base	1567-04	8,169	90	0	.070 [05/03, 21]	.070 [05/09, 05]	.069 [05/04, 00]	.067 [05/24, 20]	.063 [06/24]	.065 [05/27]	.067 [05/24]	.065
Piseco Lake	2050-01	8,580	98	0	.067 [05/04, 09]	.063 [05/09, 08]	.063 [05/24, 10]	.062 [04/13, 10]	.064 [05/02]	.058 [04/10]	.062 [04/13]	.061

(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 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
Nick's Lake	2167-03	0.90	0.89	0.90	0.63	0.52	0.54	0.48	0.65	0.60	0.67	0.52

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

		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	2015	2014	2013	3-yr avg
Nick's Lake	2167-03	8,608	98	3.9	4.6	2.9	3.8

(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 **6**

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Utica (T)	3202-01	330	21.6 [01/15]	21.5 [09/03]	19.6 [02/18]	17.8	19.0	18.5	18.4	10.1	5.0	6.8	6.5	7.1	6.7	7.0	6.9

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

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* 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 2015

		8-hr Running Average Begin Hour							4th Highest Daily Maximum 8-Hour Average-			
		Observations			Daily Highest Values, ppm				Not to exceed an avg of 0.075 ppm during the last 3 years, <i>changed to 0.070 ppm beginning 1/1/2016*</i>			
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Nick's Lake	2167-03	8,667	98	0	.065 [05/04, 10]	.062 [05/24, 09]	.061 [05/03, 11]	.061 [05/09, 07]	.061 [04/28]	.057 [04/10]	.061 [05/09]	.059
Perch River	2223-01	8,705	97	0	.067 [05/24, 10]	.065 [05/03, 14]	.065 [05/04, 08]	.065 [05/09, 09]	.066 [05/02]	.059 [07/22]	.065 [05/09]	.063

(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 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
Camp Georgetown	2655-01	2.39	2.06	1.85	1.79	1.17	1.09	0.52	xx	xx	xx	xx
East Syracuse	3353-09	2.35	2.23	2.11	2.06	1.23	0.92	0.88	0.88	0.61	0.70	0.60

Sampling at 2655-01 was suspended in 04/2012 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 2015

		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	2015	2014	2013	3-yr Avg.
East Syracuse	3353-09	8,614	98	4.4	5.1	5.1	4.9

(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 **7**

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
East Syracuse (F)	3353-09	116	20.9 [09/03]	18.5 [01/24]	17.5 [03/01]	17.5	16.0	16.2	16.6	9.0	5.5	7.6	5.0	6.8	6.6	6.4	6.6
East Syracuse (T)	3353-09	338	20.2 [09/02]	20.1 [02/17]	19.1 [01/24]	17.0	16.0	16.2	16.6	7.7	6.6	6.9	4.3	6.4	6.6	6.4	6.6

(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 2015

		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 beginning 1/1/2016*</i>			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
East Syracuse	3353-09	8,424	97	0	.068 [05/08, 10]	.066 [09/16, 10]	.064 [05/04, 09]	.063 [05/03, 11]	.065 [05/01]	.063 [05/12]	.063 [05/03]	.063
Fulton/Granby	3754-01	7,345	97	0	.075 [05/03, 11]	.065 [05/08, 10]	.063 [04/13, 12]	.063 [05/24, 10]	.063 [07/21]	.058 [06/02]	.063 [05/24]	.061

(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 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
Elmira	0701-05	3.18	3.12	3.29	2.80	2.01	2.08	1.65	1.48	xx	xx	xx
Rochester	2701-22	4.20	4.18	4.06	2.91	2.54	2.19	(1.15)	0.99	0.91	0.96	0.79
Pinnacle	5001-04	xx	xx	1.73	1.67	1.04	0.63	0.71	0.39	0.39	0.45	0.33

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

		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	2015	2014	2013	3-yr Avg.
Rochester	2701-22	8,606	98	17.6	20.5	17.3	18.5
Pinnacle	5001-04	8,344	95	9.3	10.1	8.4	9.3

(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 (PM₁₀) - R&P Model 2025 Sampler

NYSDEC Region **8**

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

		24-Hour Concentrations - µg/m ³							# of Days > 150 µg/m ³ - Not to exceed an expected avg. of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.			2013		2014		2015		
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp. Avg.
Rochester (R&P)	2701-22	56	32	03/07	31	02/17	29	09/03	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 2015

(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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Rochester 2 (F)	2701-22	115	21.5 [09/03]	20.8 [03/07]	20.4 [03/01]	20.4	16.8	18.0	18.4	9.7	6.5	9.1	5.8	7.8	7.3	7.2	7.4
Rochester 2 (T)	2701-22	354	24.8 [12/07]	22.3 [09/02]	22.2 [12/08]	19.1	13.9	19.4	17.5	7.9	5.9	8.3	6.3	7.1	(7.0)	7.8	(7.3)
Rochester Near Road (T)	2701-23	358	23.4 [09/02]	21.5 [09/03]	20.3 [09/01]	17.1	(10.3)	xx	xx	7.8	6.1	8.0	8.4	7.6	(6.4)	xx	xx
Rochester Near Road (F)	2701-23	111	21.8 [09/03]	21.5 [03/01]	21.1 [03/07]	21.1	xx	xx	xx	(9.3)	6.8	9.0	6.9	(8.0)	xx	xx	xx
Pinnacle (F)	5001-04	118	17.2 [09/03]	14.9 [06/11]	14.4 [09/06]	14.4	20.0	(14.8)	16.4	7.2	6.0	7.3	4.2	6.2	6.1	(5.7)	(6.3)
Pinnacle (T)	5001-04	312	18.5 [06/10]	17.4 [09/02]	17.2 [09/05]	14.9	14.6	xx	xx	7.4	5.2	6.7	3.8	5.7	7.5	xx	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

CARBON MONOXIDE - Continuous Gas Filter Correlation

NYSDEC Region **8**

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

		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> 9 ppm
Rochester 2	2701-22	8,513	97	0	1.1 [02/20, 22]	1.1 [01/14, 20]	1.0 [02/20, 07]	8,471	0	.8 [02/21, 00]	.8 [03/01, 01]	0
Rochester Near-Road	2701-23	8,360	95	0	1.2 [11/03, 19]	1.2 [11/03, 18]	1.0 [11/16, 07]	8,390	0	.8 [03/01, 01]	.8 [11/03, 21]	0
Pinnacle	5001-04	8,145	93	0	0.3 [07/10, 14]	0.2 [08/22, 11]	0.2 [08/22, 07]	8,114	0	0.3 [08/22, 12]	0.1 [01/13, 23]	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 2015

		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> to 0.070 ppm beginning 1/1/2016*			
		Observations			Daily Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	Days >.075 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Rochester 2	2701-22	8,498	98	0	.068 [05/24, 11]	.066 [05/03, 11]	.065 [05/09, 10]	.065 [09/16, 10]	.064 [06/23]	.058 [07/12]	.065 [09/16]	.062
Pinnacle	5001-04	7,873	98	0	.064 [05/04, 10]	.062 [05/24, 12]	.060 [05/03, 09]	.059 [04/13, 13]	.061 [06/22]	.058 [05/09]	.059 [04/13]	.059
Williamson (Operated 03/21 - 12/31)	5863-01	8,501	96	0	.068 [05/03, 12]	.065 [05/24, 12]	.062 [09/18, 10]	.061 [05/08, 10]	.066 [05/30]	.064 [05/27]	.061 [05/08]	.063

(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 **8**

Annual Averages 2005 through 2015

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

Station	Site No.	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Rochester Near-Road	2701-23	xx	(9.95)	10.09								

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

		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	2013	2014	2015	3-yr avg.	1st	2nd	3rd
Rochester Near-Road	2701-23	8,604	99	xx	(40.1)	45.1	xx	54.8 [02/28, 22]	54.0 [02/28, 21]	53.7 [02/20, 21]

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

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

*Federal Ambient Air Quality Standard

+ 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 2015

		24-Hour Concentrations - µg/m ³								THREE MONTH ROLLING AVERAGES Maximum not to exceed 0.15 µg/m ³ *.		
				Maximum		2nd Max.		3rd Max.		Highest Values, µg/m ³		
Station	Site No.	Total Obs.	% Avail	Value	Date	Value	Date	Value	Date	2013	2014	2015
Rochester (PM ₁₀)	2701-22	56	93	.004	05/24	.004	01/12	.003	07/05	.003	.002	.002

(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 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
Buffalo	1401-18	3.73	2.78	2.70	2.34	1.74	1.50	2.01	2.72	(2.4)	1.49	1.02
Tonawanda	1472-04	5.83	3.93	4.29	xx	xx	xx	xx	xx	xx	xx	xx
Brookside Terrace	1472-14	xx	xx	(2.80)	2.83	2.10	1.83	3.43	2.11	2.82	(1.52)	1.04
Dunkirk	0601-04	3.49	3.13	3.27	2.68	2.55	1.54	1.72	1.3	1.03	1.5	1.28
Westfield	0675-01	4.32	2.70	2.74	2.51	1.73	1.32	1.22	0.98	xx	xx	xx
Niagara Falls	3102-25	2.63	2.48	2.79	2.13	1.58	1.53	2.74	3.47	xx	xx	xx

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

		One Hour Averages average of 99 th percentile for last 3 years not to exceed 75 ppb *					
		Observations		99 th Percentile, ppb			
	Site No.	Total Obs.	% Avail	2015	2014	2013	3-yr Avg.
Buffalo	1401-18	8,633	99	11.1	8.3	8.5	9.3
Brookside Terrace	1472-14	8,182	93	17.1	25.5	19.5	20.7
Dunkirk	0601-04	8,625	98	20.5	13.7	15.4	16.5

(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.

+ Denotes a contravention of NYS/Federal AAQS

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

NYSDEC Region **9**

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

		24-Hour Concentrations - µg/m ³							# of Days > 150 µg/m ³ - Not to exceed an expected avg. of one per year during the last 3 years *						
		Maximum		2nd Max.		3rd Max.			2013		2014		2015		
Station	Site No.	Total Obs.	Value	Date	Value	Date	Value	Date	Mea	Est	Mea	Est	Mea	Est	Exp. Avg.
Buffalo (R&P)	1401-18	61	78	04/30	48	09/15	46	03/25	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 **9**

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/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, 2015				Annual Mean, µg/m ³			
			1 st	2 nd	3 rd	2015	2014	2013	3-yr Avg.	1 st	2 nd	3 rd	4 th	2015	2014	2013	3-yr Avg.
Buffalo (F)	1401-18	115	28.9 [03/10]	23.5 [05/09]	22.9 [09/03]	22.9	19.4	20.4	20.9	11.0	8.3	9.5	6.4	8.8	(8.0)	8.0	8.2
Buffalo (T)	1401-18	361	26.6 [09/01]	25.8 [09/02]	24.9 [09/03]	19.6	17.6	21.2	19.5	8.4	7.9	10.4	8.5	8.8	9.3	9.3	9.1
Grand Island Blvd (T)	1472-13	323	25.8 [12/12]	22.5 [12/13]	22.0 [09/03]	20.2	18.2	(20.6)	19.6	10.7	8.5	9.1	(9.6)	(9.5)	9.3	(10.0)	(9.6)
Brookside Terrace (T)	1472-14	341	24.7 [09/03]	22.1 [09/02]	21.2 [09/06]	19.4	15.9	19.4	18.2	8.3	8.1	10.0	6.9	8.3	(7.6)	(8.1)	(8.0)
Niagara Falls (F)	3102-25	xx	xx	xx	xx	xx	xx	(19.1)	xx	xx	xx	xx	xx	xx	xx	xx	xx
Buffalo Near Road (F)	1455-02	115	25.1 [03/10]	23.0 [09/03]	22.7 [01/21]	22.7	18.1	xx	xx	11.8	8.9	9.5	6.8	9.2	(8.3)	xx	xx
Buffalo Near Road (T)	1455-02	363	26.1 [09/01]	25.0 [09/03]	24.9 [09/02]	19.4	18.1	xx	xx	9.8	7.3	9.7	8.4	8.8	(8.3)	xx	xx
Amherst (F)	1451-03	111	26.1 [09/03]	20.2 [03/10]	19.3 [03/01]	19.3	(16.2)	(17.3)	xx	(10.4)	7.3	8.7	5.7	8.0	(7.9)	(7.4)	xx
Dunkirk (F)	0601-04	108	20.5 [05/09]	20.4 [09/03]	17.8 [03/07]	17.8	16.7	17.5	17.3	9.5	8.1	8.5	5.4	7.9	7.9	(7.3)	7.7

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 2015

		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> 9 ppm
Buffalo	1401-18	8,670	99	0	2.1 [03/10, 06]	1.9 [03/10, 05]	1.9 [03/10, 07]	8,703	0	1.7 [03/10, 06]	1.5 [03/10, 12]	0
Buffalo Near-Road	1455-02	8,109	93	0	1.3 [01/14, 07]	1.2 [03/10, 06]	1.2 [03/10, 07]	8,176	0	.9 [03/10, 07]	.8 [01/28, 03]	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**

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

		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 beginning 1/1/2016*</i>			
		Observations			Highest Values, ppm							
Station	Site No.	Total Obs.	% Avail	>.75 ppm	1st	2nd	3rd	4th	2013	2014	2015	Avg.
Dunkirk	0604-01	8,658	98	1	.078 [05/08, 12]	.074 [05/03, 11]	.074 [09/16, 11]	.071 [05/24, 11]	.071 [06/21]	.066 [06/21]	.071 [05/24]	.069
Amherst	1451-03	8,563	99	1	.076 [05/08, 11]	.073 [05/24, 12]	.071 [05/03 10]	.071 [05/09, 11]	.071 [06/21]	.063 [06/28]	.071 [05/09]	.068
Middleport (Operated 03/23 - 10/12)	3120-02	5,348	98	0	.071 [05/24, 12]	.069 [05/03, 10]	.069 [05/08, 11]	.067 [05/09, 09]	.065 [05/02]	.061 [05/20]	.067 [05/09]	.064

(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 2005 through 2015

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

Station	Site No.	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Buffalo	1401-18	18.92	15.53	16.41	15.05	13.88	13.00	(12.52)	10.46	(10.38)	(8.7)	11.1
Buffalo Near-Road	1455-02	xx	xx	xx	xx	xx	xx	xx	xx	xx	9.9	12.4
Amherst	1451-03	12.66	10.51	10.23	(9.71)	(7.42)	8.19	8.32	6.44	xx	xx	xx

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

		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	2013	2014	2015	3-yr avg.	1st	2nd	3rd
Buffalo	1401-18	8,466	97	(46.6)	(54.6)	53.4	51.5	70.6 [03/09, 22]	67.6 [03/09, 23]	63.4 [03/03, 01]
Buffalo Near-Road	1455-02	8,523	97	xx	(40.1)	52.2	xx	68.0 [09/16, 20]	67.3 [03/09, 21]	61.2 [03/09, 20]

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