



west virginia department of environmental protection



Appendix A: Air Monitoring Data



Promoting a healthy environment.

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**West Virginia PM2.5
Design Values
data as of 12/31/2011**

County	Site	(NAAQS 24 hr 3 yr 98% = 35 ug/m3)									(Annual NAAQS <= 15.0 ug/m3)								
		01-03	02-04	03-05	04-06	05-07	06-08	07-09	08-10	09-11	01-03	02-04	03-05	04-06	05-07	06-08	07-09	08-10	09-11
Berkeley	Martinsburg	40	37	36	34	33	31	29	31	30	16.3	16.1	16.2	15.8	15.8	14.9	14.0	12.9	11.8
Brooke	Follansbee	42	44	42	40	37	37	34	31	27	16.8	16.5	16.8	16.4	16.4	15.4	14.4	13.7	13.0
	Weirton-Marl. Hgts	46	47	45	43	44	41	37	31	29	16.2	15.8	16.4	15.7	16.1	14.9	14.0	13.1	11.6
Cabell	Huntington	41	37	35	34	37	32	30	26	25	16.6	15.8	16.3	16.1	16.6	15.2	14.3	13.1	12.1
Hancock	Weirton-Oak St.	45	44	41	40	41	38	35	31	28	17.4	17.0	16.6	15.4	15.2	14.3	13.4	12.4	11.7
Harrison	Clarksburg	36	34	32	35	34	31	26	23	21	14.0	13.6	13.9	13.9	14.2	13.4	12.5	11.8	10.6
Kanawha	Charleston	37	34	34	35	36	34	29	25	24	15.5	14.8	15.1	15.0	15.4	14.2	13.1	11.8	11.0
	Guthrie				33	31							13.2	12.2					
	So. Charleston	40	36	36	37	38	36	32	28	26	17.1	16.4	16.6	16.4	16.6	15.4	14.4	13.2	12.5
Marion	Fairmont	39	36	34	34	34	32	28	26	26	15.4	14.8	15.0	14.9	15.3	14.5	13.6	12.9	12.1
Marshall	Moundsville	37	36	33	34	35	34	31	29	29	15.7	15.1	15.3	15.0	15.2	14.2	13.4	13.1	13.0
Mercer	Bluefield	34	32	33							12.5	12.1	12.8						
Monongalia	Morgantown	40	39	36	34	36	34	30	25	25	14.9	14.5	14.5	14.1	14.4	13.6	12.7	11.5	10.9
Ohio	Wheeling	36	35	32	31	32	31	29	26	26	15.2	14.7	14.9	14.2	14.6	13.7	13.2	12.4	11.9
Raleigh	Beckley	34	32	31	31	30	28	24	21	20	13.1	12.6	12.9	12.8	13.0	11.9	11.0	10.1	9.6
Summers	Keeney Knob	29	29	31							10.1	9.8	10.6						
Wood	Vienna	37	35	34	35	37	34	31	28	27	16.0	15.2	15.4	15.3	15.4	14.6	13.7	13.1	12.3

West Virginia PM2.5

98% Design Values

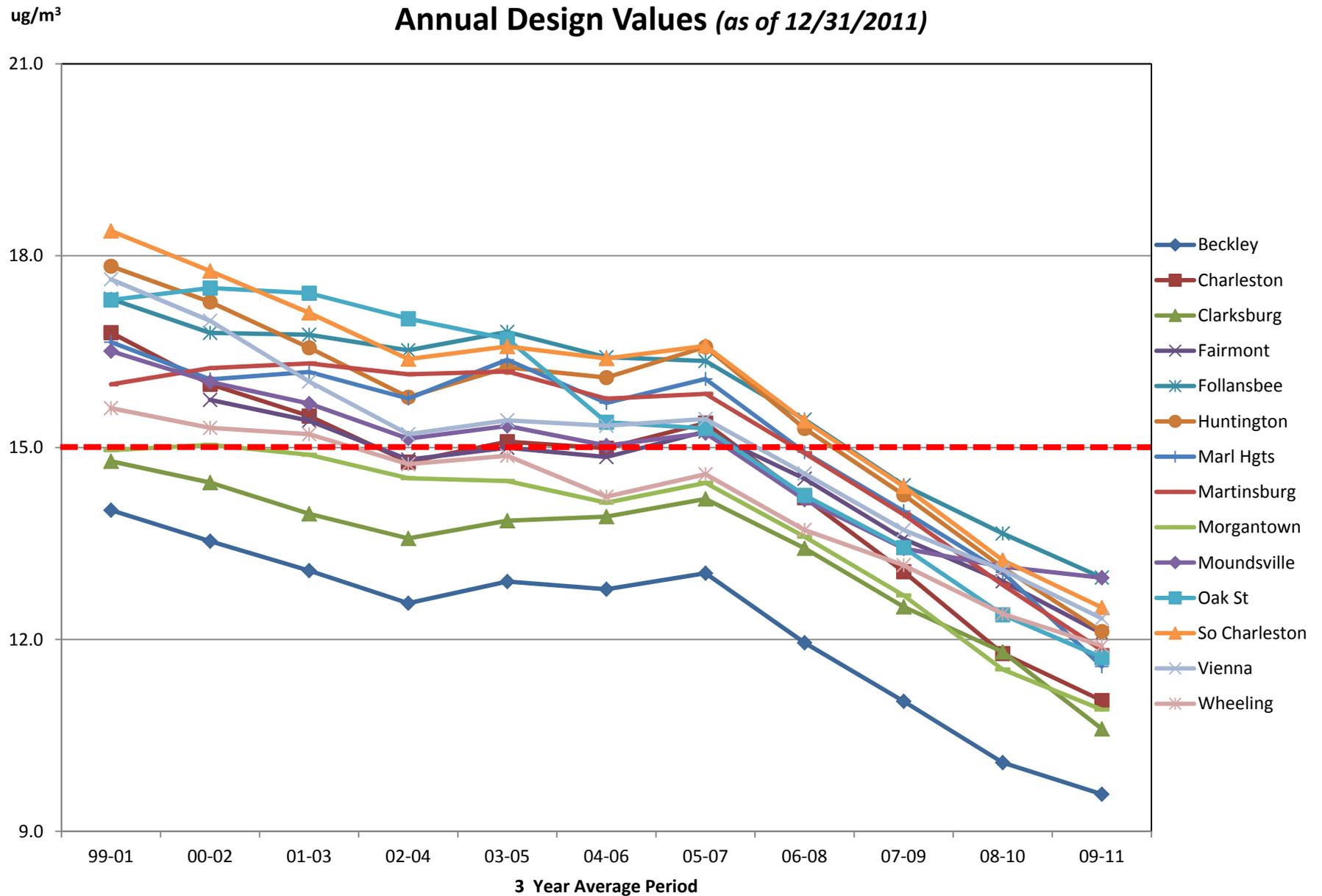
data as of 12/31/2011

		(NAAQS 24 hr 3 yr 98% = 35 ug/m ³) and (Daily Sampling Criteria = 34 - 36 ug/m ³)															
		2009				2010				2011				3 yr Avg			Annual
County	Site	obs	1	2	3	obs	1	2	3	obs	1	2	3	1	2	3	09-11
Berkeley	Martinsburg	121	34.0	27.6	25.7	118	44.2	37.8	36.4	120	29.7	28.3	27.7	31	30	30	11.8
Brooke	Follansbee	122	38.3	24.4	23.2	122	32.6	32.0	29.8	118	31.9	29.0	27.4	28	27	27	13.0
	Weirton-Marl. Hgts	118	48.6	29.3	26.3	122	38.0	36.3	31.6	75	39.6	28.5	23.8	33	29	27	11.6
Cabell	Huntington	112	32.5	29.2	22.5	115	35.5	29.0	28.0	116	26.7	26.7	23.0	26	26	25	12.1
Hancock	Weirton-Oak St.	122	29.6	28.7	25.2	122	34.4	33.1	31.2	116	33.2	29.5	28.9	30	29	28	11.7
Harrison	Clarksburg	118	21.8	20.5	19.5	111	42.1	27.4	22.2	83	24.7	20.7	19.5	22	21	20	10.6
Kanawha	Charleston	117	22.9	21.7	21.1	118	33.0	25.1	23.5	108	30.1	28.2	26.0	25	24	24	11.0
	So. Charleston	333	26.2	26.0	25.2	122	35.1	26.2	25.3	119	32.9	28.3	26.4	28	27	26	12.5
Marion	Fairmont	121	26.3	25.5	22.5	101	34.7	31.4	26.8	121	31.7	28.2	28.2	27	26	26	12.1
Marshall	Moundsville	359	25.8	25.7	25.5	117	38.5	34.3	33.5	117	31.9	30.8	28.6	30	30	29	13.0
Monongalia	Morgantown	351	24.2	23.0	22.8	118	32.7	25.4	23.9	121	31.2	30.7	29.2	26	26	25	10.9
Ohio	Wheeling	119	24.5	24.2	23.2	119	30.5	28.7	28.2	121	27.7	27.5	27.5	26	26	26	11.9
Raleigh	Beckley	113	19.7	19.4	18.4	120	29.0	25.4	21.3	116	27.4	21.7	20.6	22	20	20	9.6
Wood	Vienna	350	26.9	26.5	26.3	117	41.9	30.1	28.4	120	32.1	26.9	25.1	29	27	27	12.3

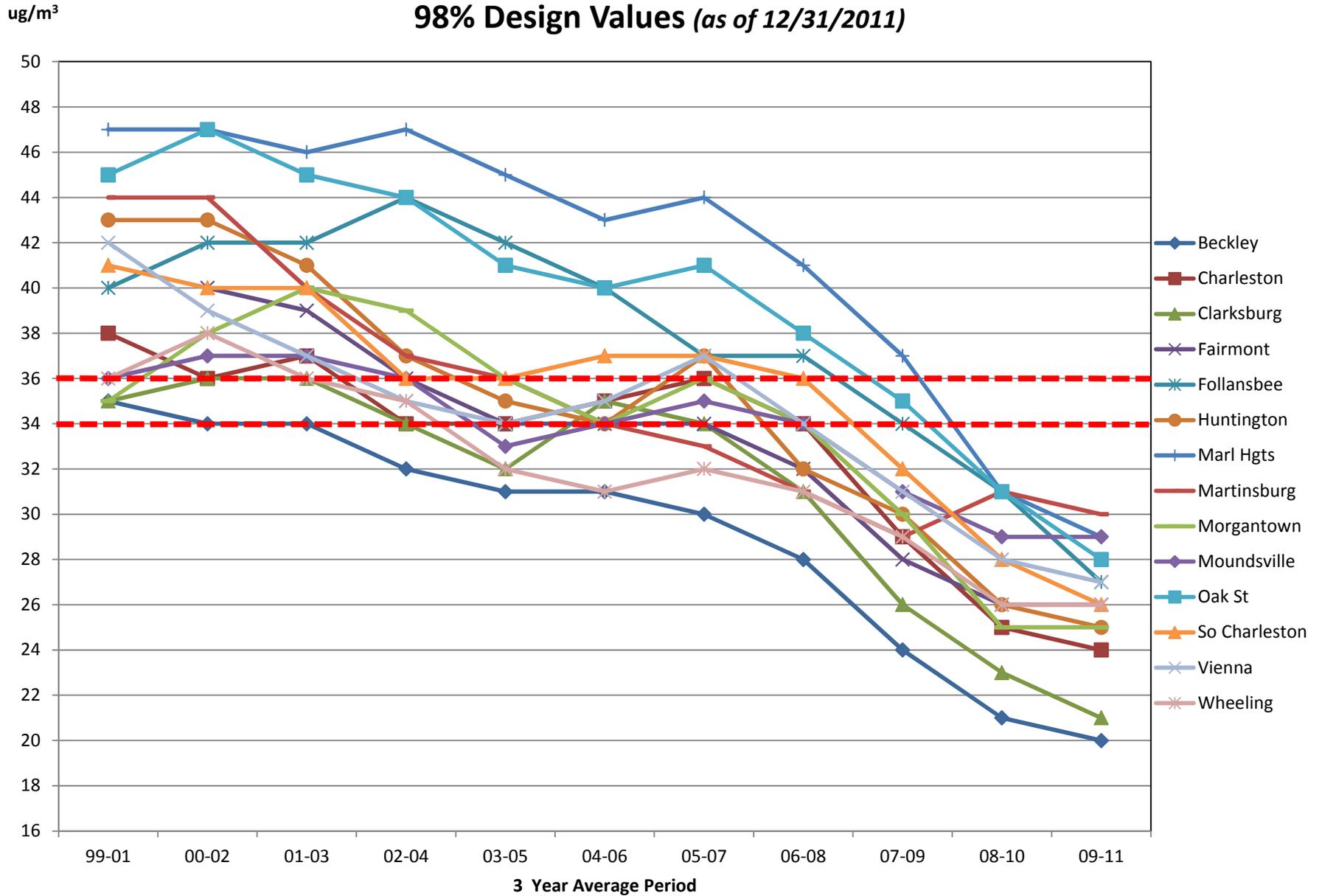
* obs = # observations
 * 1,2,3 = rank of values
 * current values are in red
 * daily sampling sites in blue

Credible # of Samples	nth Max Value Used
1 - 50	1
51 - 100	2
101 - 150	3
151 - 200	4
201 - 250	5
251 - 300	6
301 - 350	7
351 - 366	8

West Virginia PM2.5 Annual Design Values *(as of 12/31/2011)*



West Virginia PM2.5 98% Design Values (as of 12/31/2011)



West Virginia PM2.5 Annual Average Summary as of 12/31/2011

<i>Location</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>	<i>2011</i>	<i>2005 - 2007</i>	<i>2006 - 2008</i>	<i>2007 - 2009</i>	<i>2008 - 2010</i>	<i>2009 - 2011</i>
Beckley	13.92	11.99	13.20	10.65	9.24	10.33	9.17	13.0	11.9	11.0	10.1	9.6
Charleston	16.34	14.30	15.51	12.85	10.82	11.67	10.64	15.4	14.2	13.1	11.8	11.0
Clarksburg	14.87	13.59	14.12	12.56	10.85	12.01	8.95	14.2	13.4	12.5	11.8	10.6
Fairmont	15.90	14.56	15.30	13.69	11.73	13.31	11.24	15.3	14.5	13.6	12.9	12.1
Follansbee	17.43	15.24	16.40	14.68	12.15	14.14	12.62	16.4	15.4	14.4	13.7	13.0
Huntington	18.13	14.97	16.65	14.14	12.00	13.21	11.17	16.6	15.3	14.3	13.1	12.1
Huntington Co-Located			18.30	13.99	10.90	14.98	10.39			14.4	13.3	12.1
Martinsburg	16.97	14.93	15.61	14.19	12.06	12.31	11.13	15.8	14.9	14.0	12.9	11.8
Morgantown	15.02	13.54	14.78	12.50	10.79	11.31	10.61	14.4	13.6	12.7	11.5	10.9
Moundsville	16.21	14.48	14.99	13.10	12.19	14.14	12.56	15.2	14.2	13.4	13.1	13.0
South Charleston	17.63	15.64	16.50	14.19	12.50	13.03	11.97	16.6	15.4	14.4	13.2	12.5
Vienna	16.40	14.68	15.25	13.84	12.04	13.37	11.57	15.4	14.6	13.7	13.1	12.3
Weirton/Marland Heights "A"	17.30	14.64	16.35	13.79	11.88	13.48	9.33	16.1	14.9	14.0	13.1	11.6
Weirton/Marland Heights "B"	17.12	14.90	19.19	15.48	11.86	14.37	9.63	17.1	16.5	15.5	13.9	12.0
Weirton/Oak Street	16.32	13.70	15.73	13.33	11.25	12.58	11.33	15.2	14.3	13.4	12.4	11.7
Wheeling/Warwood	15.42	13.13	15.20	12.81	11.48	12.92	11.30	14.6	13.7	13.2	12.4	11.9
<i>Average</i>	16.33	14.29	15.82	13.49	11.48	12.95	10.85					

West Virginia PM2.5 Annual Average Summary @ 12/31/2006

<i>Location</i>	<i>2000</i>	<i>2001</i>	<i>2002</i>	<i>2003</i>	<i>2004</i>	<i>2005</i>	<i>2006</i>	<i>2000 - 2002</i>	<i>2001 - 2003</i>	<i>2002 - 2004</i>	<i>2003 - 2005</i>	<i>2004 - 2006</i>
Beckley	13.73	13.98	12.90	12.35	12.45	13.92	11.99	13.54	13.08	12.57	12.91	12.79
Bluefield	14.52	13.41	12.36	11.81	12.08			13.43	12.53	12.08		
Charleston	16.09	16.49	15.39	14.61	14.33	16.34	14.30	15.99	15.49	14.77	15.09	14.99
Clarksburg	14.87	14.45	14.04	13.42	13.30	14.87	13.59	14.45	13.97	13.58	13.86	13.92
Fairmont	15.97	15.92	15.35	14.99	14.10	15.90	14.56	15.75	15.42	14.81	15.00	14.85
Follansbee	16.51	17.30	16.57	16.43	16.57	17.43	15.24	16.79	16.76	16.52	16.81	16.41
Guthrie					12.60	14.53	12.41					13.18
Huntington	17.60	17.50	16.73	15.45	15.18	18.13	14.97	17.28	16.56	15.79	16.25	16.09
Keeney Knob	10.47	10.59	10.16	9.51	9.79			10.41	10.08	9.82		
Martinsburg	15.99	15.89	16.84	16.21	15.38	16.97	14.93	16.24	16.32	16.15	16.19	15.76
Morgantown Airport	15.03	14.94	15.15	14.56	13.85	15.02	13.54	15.04	14.89	14.52	14.48	14.14
Moundsville	16.41	16.05	15.62	15.40	14.41	16.21	14.48	16.03	15.69	15.14	15.34	15.03
South Charleston	18.20	18.10	17.20	16.08	15.88	17.63	15.64	17.83	17.13	16.39	16.53	16.38
South Charleston "B"	18.31	17.91	17.16	16.16	16.07	17.89	15.66	17.80	17.08	16.46	16.71	16.54
Vienna	17.78	17.40	15.76	14.93	14.94	16.40	14.68	16.98	16.03	15.21	15.43	15.34
Weirton/Marland Heights "A"	16.22	16.14	15.14	16.73	15.18	17.30	14.64	15.83	16.00	15.68	16.40	15.71
Weirton/Marland Heights "B"	16.23	17.05	15.51	16.54	15.51	17.12	14.90	16.26	16.37	15.85	16.39	15.84
Weirton/Oak Street	17.70	17.38	17.41	17.46	16.18	16.32	13.70	17.50	17.42	17.02	16.65	15.40
Wheeling/Warwood	15.35	15.55	15.02	15.05	14.14	15.42	13.13	15.31	15.21	14.74	14.87	14.23
<i>Average</i>	15.94	15.89	15.24	14.87	14.31	16.32	14.26					

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2002

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	113	46.2	39.9	34.7	33.2	35	15.4	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	116	49.9	41.9	38.6	37.8	39	17.2	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03
24 HOUR	120	49.5	40.6	37.2	37.1	37	17.2	None	2	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

Get detailed information about this report, including column descriptions, at http://www.epa.gov/airquality/airdata/ad_about_reports.html#mon

AirData reports are produced from a direct query of the AQS Data Mart. The data represent the best and most recent information available to EPA from state agencies. However, some values may be absent due to incomplete reporting, and some values may change due to quality assurance activities. The AQS database is updated daily by state, local, and tribal organizations who own and submit the data. Please contact the appropriate air quality monitoring agency to report any data problems.

<http://www.epa.gov/airquality/airdata/ad_contacts.html>

Readers are cautioned not to rank order geographic areas based on AirData reports. Air pollution levels measured at a particular monitoring site are not necessarily representative of the air quality for an entire county or urban area.

This report is based on monitor-level summary statistics. Air quality standards for some pollutants (PM2.5 and Pb) allow for combining data from multiple monitors into a site-level summary statistic that can be compared to the standard. In those cases, the site-level statistics may differ from the monitor-level statistics upon which this report is based.

Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

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Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2003

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	117	44.4	43.8	35.3	30	35	14.6	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	117	45.7	39.1	36.3	34.6	36	16.1	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03
24 HOUR	111	45.9	40.5	37.6	35.7	38	16.2	None	2	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

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Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2004

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	119	32.4	31.2	31.2	31	31	14.3	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	108	36.5	35.3	31.8	29.2	32	12.6	None	1	540390011	Guthrie - Agricultural Center	Not in a city	Kanawha	WV	03
24 HOUR	119	36.5	36.2	33.5	32.4	34	15.9	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03
24 HOUR	117	37.3	36.7	33.5	32.4	34	16.1	None	2	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <http://www.epa.gov/airdata>

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2005

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	122	37.5	35.5	35.4	33.9	35	16.3	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	112	38.9	35.6	35.5	35.2	36	14.5	None	1	540390011	Guthrie - Agricultural Center	Not in a city	Kanawha	WV	03
24 HOUR	119	41.7	39.8	39.5	37.2	40	17.6	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03
24 HOUR	119	41.4	40.9	39.5	37.5	40	17.9	None	2	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2006

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	122	39.3	38.5	37.6	35.7	38	14.3	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	110	42.6	39.8	32	31.5	32	12.4	None	1	540390011	Guthrie - Agricultural Center	Not in a city	Kanawha	WV	03
24 HOUR	119	41.1	40.4	37.3	34.7	37	15.6	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03
24 HOUR	121	43.1	40.8	36.9	35.5	37	15.7	None	2	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2007

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	109	43.6	34	33.5	33	34	15.5	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	36	24.3	20	19.9	18.3	24	9.6	None	1	540390011	Guthrie - Agricultural Center	Not in a city	Kanawha	WV	03
24 HOUR	360	42.7	42.2	41	40	37	16.5	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

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Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2008

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	117	53.8	34.1	31.7	27.4	32	12.8	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	117	49.7	45.1	33.8	30.2	34	14.2	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

Get detailed information about this report, including column descriptions, at http://www.epa.gov/airquality/airdata/ad_about_reports.html#mon

AirData reports are produced from a direct query of the AQS Data Mart. The data represent the best and most recent information available to EPA from state agencies. However, some values may be absent due to incomplete reporting, and some values may change due to quality assurance activities. The AQS database is updated daily by state, local, and tribal organizations who own and submit the data. Please contact the appropriate air quality monitoring agency to report any data problems.
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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2009

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	117	22.9	21.7	21.1	21	21	10.8	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	333	28.4	27.5	26.9	26.8	26	12.5	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2010

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	118	33	25.1	23.5	22.2	24	11.7	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	122	35.1	26.2	25.3	23.4	25	13	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Charleston, WV

Pollutant: PM2.5

Year: 2011

Exceptional Events: Included (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	108	30.1	28.2	26	23.8	26	10.6	None	1	540390010	Charleston - 209 Morris Street	Charleston	Kanawha	WV	03
24 HOUR	119	32.9	28.3	26.4	25.9	26	12	None	1	540391005	South Charleston - Public Library 312 4th Ave	South Charleston	Kanawha	WV	03

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Generated: August 14, 2012

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