



west virginia department of environmental protection

Appendix A: Air Monitoring Data

Promoting a healthy environment.

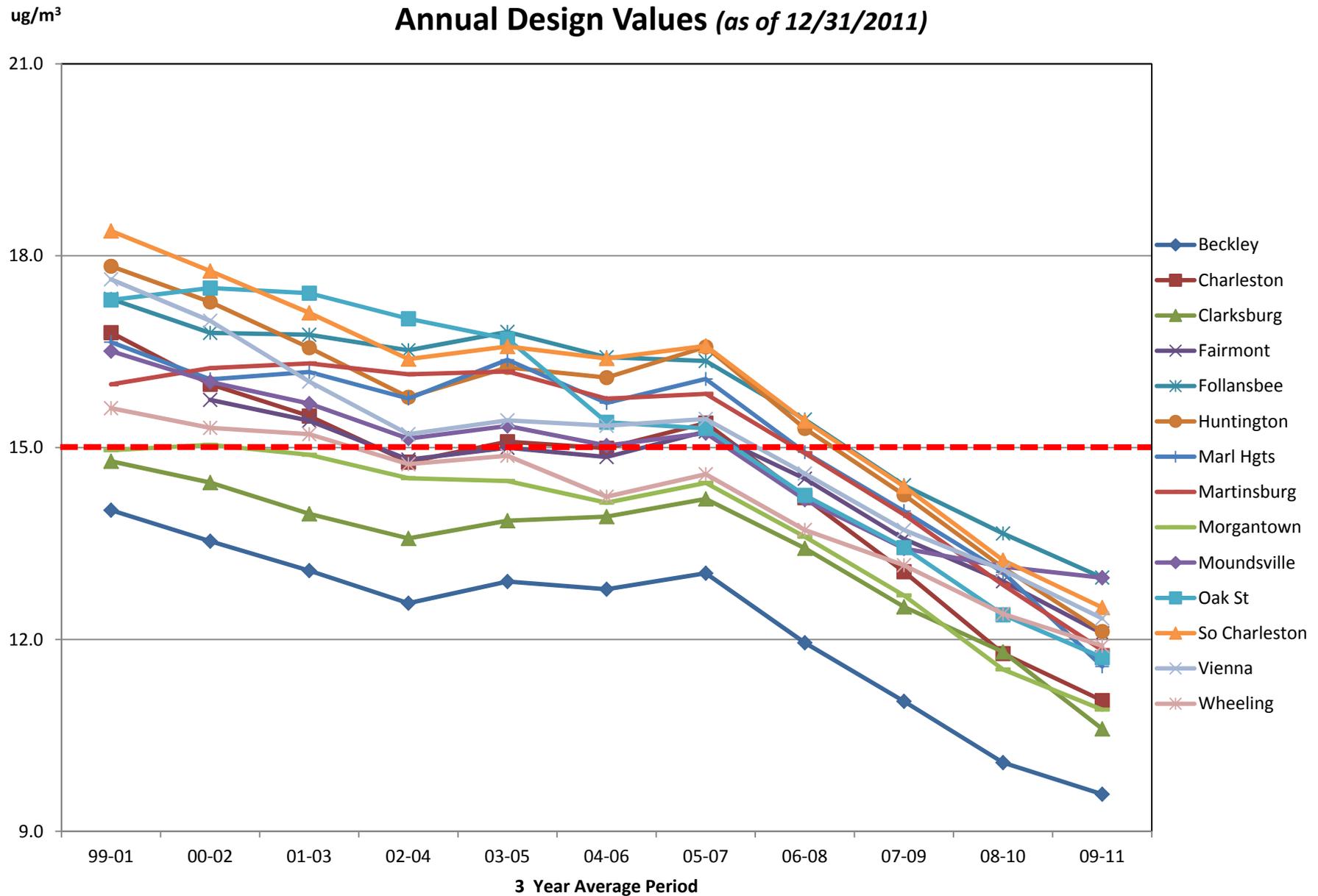
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**West Virginia PM2.5
Design Values
data as of 12/31/2011**

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

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



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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: Hagerstown-Martinsburg, MD-WV

Pollutant: PM2.5

Year: 2001

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	121	45.3	42	41.6	32.8	42	14.2	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	113	55.7	45.4	43.3	35.6	43	15.9	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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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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: November 13, 2012

Monitor Values Report

Geographic Area: Hagerstown-Martinsburg, MD-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	115	94.5	43.6	42.7	37.7	43	14.8	Included	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	112	49.7	43.1	42.3	39.4	42	16.8	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	119	43.7	35.5	34.3	32.5	34	13	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	117	62	36.6	35.7	33.6	36	16.2	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	117	49	40.1	39.2	33.8	39	14.6	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	114	46.5	39.4	34.4	32.2	34	15.4	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	106	37.9	33.6	33.2	31.8	33	14.9	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	121	38.8	37.5	37.3	37.2	37	17	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	114	34.2	31.1	29.8	29	30	11.9	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	119	45.6	41.9	31.4	29.9	31	14.9	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	121	38.5	32.6	29	28.6	29	12.9	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	118	41.1	34.6	31.4	31	31	15.6	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	122	35.7	29.8	29.7	27.7	30	11.8	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	115	34	33.7	30.8	27.6	31	14.2	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	122	24.6	23.5	23.2	23.2	23	9.7	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	121	34	27.6	25.7	25.6	26	12.1	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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: Hagerstown-Martinsburg, MD-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	58	30.2	21.2	20.3	19.5	21	10.5	None	1	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03
24 HOUR	118	44.2	37.8	36.4	36.2	36	12.3	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	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>

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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

Monitor Values Report

Geographic Area: Hagerstown-Martinsburg, MD-WV

Pollutant: PM2.5

Year: 2010

Exceptional Events: Included (if any)

Duration Description=24-HR BLK AVG

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-HR BLK AVG	161	39	36.8	34.1	31	31	12.6	None	3	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03

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

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Hagerstown-Martinsburg, MD-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	120	29.7	28.3	27.7	26.3	28	11.1	None	1	540030003	Martinsburg - Ball Field	Martinsburg	Berkeley	WV	03

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

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

Generated: August 14, 2012

Monitor Values Report

Geographic Area: Hagerstown-Martinsburg, MD-WV

Pollutant: PM2.5

Year: 2011

Exceptional Events: Included (if any)

Duration Description=24-HR BLK AVG

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-HR BLK AVG	340	34.7	32.6	32.5	31.7	28	11.5	None	3	240430009	18530 Roxbury Road	Hagerstown	Washington	MD	03

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

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

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