



west virginia department of environmental protection

Appendix A: Air Monitoring Data

West Virginia Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

Promoting a healthy environment.

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Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2007

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8712	177	172	161	365	41.1	38.8	0	10.55	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	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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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: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2008

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8707	181	142	113	364	37.8	28.6	0	8.8	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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

Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2009

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8398	71	69	61	346	26.7	22	0	5.71	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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

Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2010

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8712	138	114	101	365	21.7	19.7	0	6.68	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>
Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2011

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8151	116	80	79	339	19.5	19.2	0	6.26	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>
Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2012

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8554	68	63	55	358	19.7	19.2	0	6.72	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2013

Exceptional Events: Included (if any)

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Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
7717	58	55	43	321	21.9	20.8	0	4.72*	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2014

Exceptional Events: Included (if any)

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Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8710	58	53	43	365	16.8	14.5	0	2.51	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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

Generated: July 18, 2016

Monitor Values Report

Geographic Area: Marshall County, WV

Pollutant: SO2

Year: 2015

Exceptional Events: Included (if any)

Note: The * indicates the mean does not satisfy minimum data completeness criteria.

Obs 1hr	First Max 1hr	Second Max 1hr	99th Percentile	Obs 24hr	First Max 24hr	Second Max 24hr	Days >STD	Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
8668	58	47	38	362	12	11.6	0	2.45	None	1	540511002	Moundsville - Ng Armory, 1501 Ninth Street	Moundsville	Marshall	WV	03

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

Generated: July 15, 2016

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User ID: FKQ

DESIGN VALUE REPORT

Report Request ID: 1463879

Report Code: AMP480

Jul. 15, 2016

GEOGRAPHIC SELECTIONS

Tribal Code	State	County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	EPA Region
	54	051									

PROTOCOL SELECTIONS

Parameter Classification	Parameter	Method	Duration
DESIGN VALUE	42401		

SELECTED OPTIONS

Option Type	Option Value
SINGLE EVENT PROCESSING	EXCLUDE REGIONALLY CONCURRED EVENTS
WORKFILE DELIMITER	/
USER SITE METADATA	STREET ADDRESS
MERGE PDF FILES	YES
QUARTERLY DATA IN WORKFILE	NO
AGENCY ROLE	PQAO

DATE CRITERIA

Start Date	End Date
2008	2015

APPLICABLE STANDARDS

Standard Description
SO2 1-hour 2010

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
AIR QUALITY SYSTEM
PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

- Notes:**
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 2. Some PM2.5 24-hour DVs for incomplete data that are marked invalid here may be marked valid in the Official report due to additional analysis.
 3. Annual Values not meeting completeness criteria are marked with an asterisk ('*').

Page 1 of 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2008
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75 State Name: West Virginia

Site ID	STREET ADDRESS	2008			2007			2006			3-Year	
		Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	113		4	161		4	147		140	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2009

REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.

Level: 75

State Name: West Virginia

Site ID	STREET ADDRESS	2009			2008			2007			3-Year	
		Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	61		4	113		4	161		112	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2010
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75
 State Name: West Virginia

Site ID	STREET ADDRESS	2010			2009			2008			3-Year	
		Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	101		4	61		4	113		92	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2011
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75 State Name: West Virginia

Site ID	STREET ADDRESS	2011			2010			2009			3-Year	
		Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	79		4	101		4	61		80	Y

- Notes:**
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2012
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75
 State Name: West Virginia

Site ID	STREET ADDRESS	2012			2011			2010			3-Year	
		Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	55	Y	4	79		4	101		78	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2013
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75 State Name: West Virginia

Site ID	STREET ADDRESS	2013			2012			2011			3-Year	
		Comp. Qtrs	99th Percentile	Cert& Eval	Comp. Qtrs	99th Percentile	Cert& Eval	Comp. Qtrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	3	43 *		4	55	Y	4	79		59	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2014
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75 State Name: West Virginia

Site ID	STREET ADDRESS	2014			2013			2012			3-Year	
		Comp. Qtrs	99th Percentile	Cert& Eval	Comp. Qtrs	99th Percentile	Cert& Eval	Comp. Qtrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	43		3	43 *		4	55	Y	47	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

Pollutant: Sulfur dioxide(42401)
 Standard Units: Parts per billion(008)
 NAAQS Standard: SO2 1-hour 2010
 Statistic: Annual 99th Percentile

Design Value Year: 2015
 REPORT EXCLUDES MEASUREMENTS WITH REGIONALLY CONCURRED EVENT FLAGS.
 Level: 75 State Name: West Virginia

Site ID	STREET ADDRESS	2015			2014			2013			3-Year	
		Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Comp. Qtrrs	99th Percentile	Cert& Eval	Design Value	Valid Ind.
54-051-1002	MOUNDSVILLE - NG ARMORY, 15	4	38		4	43		3	43 *		41	Y

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 AIR QUALITY SYSTEM
 PRELIMINARY DESIGN VALUE REPORT

Report Date: Jul. 15, 2016

CERTIFICATION EVALUATION AND CONCURRENCE FLAG MEANINGS

FLAG	MEANING
M	The monitoring organization has revised data from this monitor since the most recent certification letter received from the state.
N	The certifying agency has submitted the certification letter and required summary reports, but the certifying agency and/or EPA has determined that issues regarding the quality of the ambient concentration data cannot be resolved due to data completeness, the lack of performed quality assurance checks or the results of uncertainty statistics shown in the AMP255 report or the certification and quality assurance report.
S	The certifying agency has submitted the certification letter and required summary reports. A value of "S" conveys no Regional assessment regarding data quality per se. This flag will remain until the Region provides an "N" or "Y" concurrence flag.
U	Uncertified. The certifying agency did not submit a required certification letter and summary reports for this monitor even though the due date has passed, or the state's certification letter specifically did not apply the certification to this monitor.
X	Certification is not required by 40 CFR 58.15 and no conditions apply to be the basis for assigning another flag value
Y	The certifying agency has submitted a certification letter, and EPA has no unresolved reservations about data quality (after reviewing the letter, the attached summary reports, the amount of quality assurance data submitted to AQS, the quality statistics, and the highest reported concentrations).

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