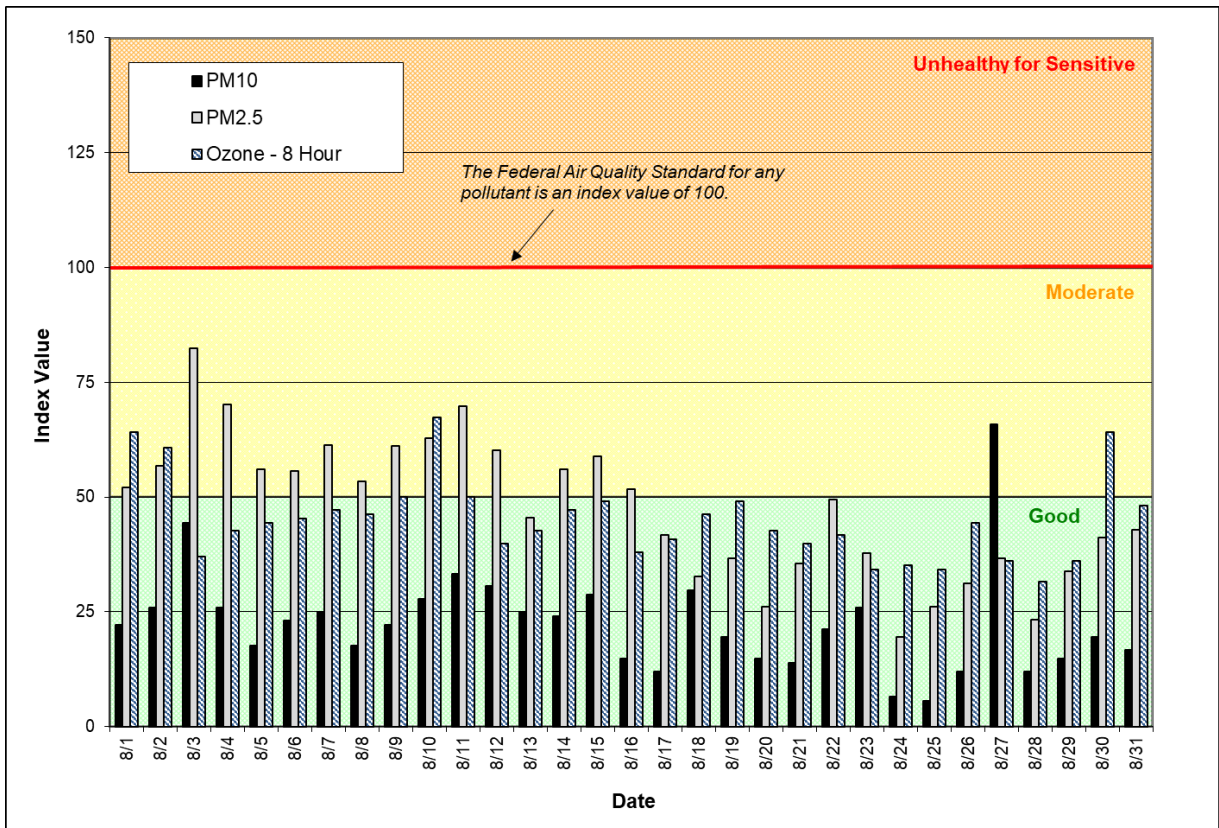


Spokane Regional Clean Air Agency Air Quality Report - August 2024

Wildfire smoke had a relatively mild effect on Spokane County’s air quality in August. Air quality was “Moderate” on 17 days and “Good” on the remaining 14 days as determined by the Air Quality Index (AQI, **Figure 1** and **Table 1**). The highest daily AQI value for the month was 82, which was based on a 24-hour average PM_{2.5} mass concentration of 26.0 µg/m³ recorded at the Spokane Valley-Broadway & Glenn air monitoring station on the 3rd (**Figure 2** and **Table 2**). It was the highest daily PM_{2.5} concentration so far this year (**Table 3**).

A cold front on the 27th brought gusty winds and blowing dust to the area, pushing the AQI to 68 (“Moderate”) based on a 24-hour average PM₁₀ mass concentration of 90 mg/m³ at the Spokane-Augusta & Fiske station (**Figure 3**). The highest ozone pollution concentration recorded in August occurred on the 10th -- the daily AQI was 67 (based on an 8-hour of 0.060 ppm) recorded at Turnbull National Wildlife Refuge (**Figure 4**).

Figure 1: Daily Air Quality Index (AQI) values for August 2024. The data represent the maximum AQI values across all monitoring stations within Spokane County. Air pollutants monitored in Spokane County by Spokane Regional Clean Air Agency and the Washington State Department of Ecology are represented: PM₁₀, PM_{2.5}, and ozone. “Low-cost” sensor PM_{2.5} and PM₁₀ data are not represented here.



A summary of the current federal air quality standards is provided in **Appendix 1**, an explanation of the AQI is provided in **Appendix 2**, and a summary of daily ozone, PM_{2.5}, and PM₁₀ mass concentrations and AQIs across the Spokane-area ambient air monitoring network is provided in **Appendix 3**.

Figure 2: Daily 24-hour average PM_{2.5}, all Spokane County monitoring stations, August 2024. Data depicted using dashed lines were collected using “low-cost” sensors. The Washington State Department of Ecology made changes to the calibration method for the sensors on August 8th which resulted in higher readings compared to the reference-grade monitors.

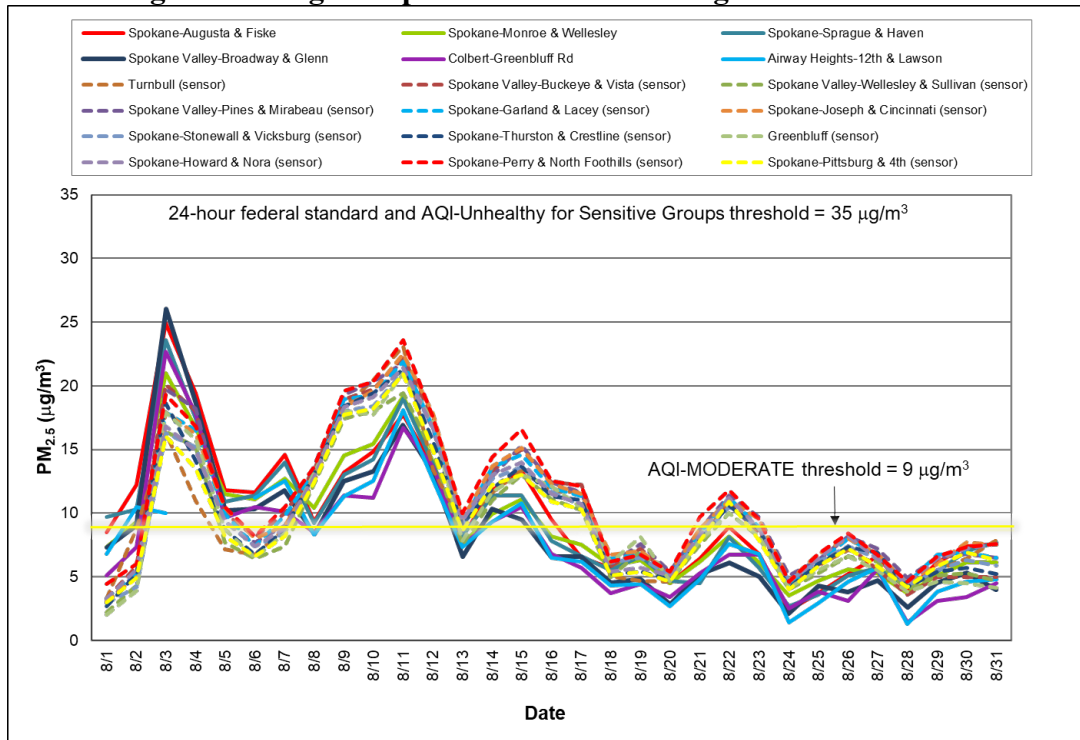


Figure 3: Daily 24-hour average PM₁₀, all Spokane County monitoring stations, August 2024. “Low-cost” sensor data are shown here using dashed lines. The Agency, in cooperation with the Washington State Department of Ecology, is testing low-cost PM₁₀ sensors at the Airway Heights-12th & Lawson, Spokane-Sprague & Haven, and Spokane Valley-Buckeye & Vista stations.

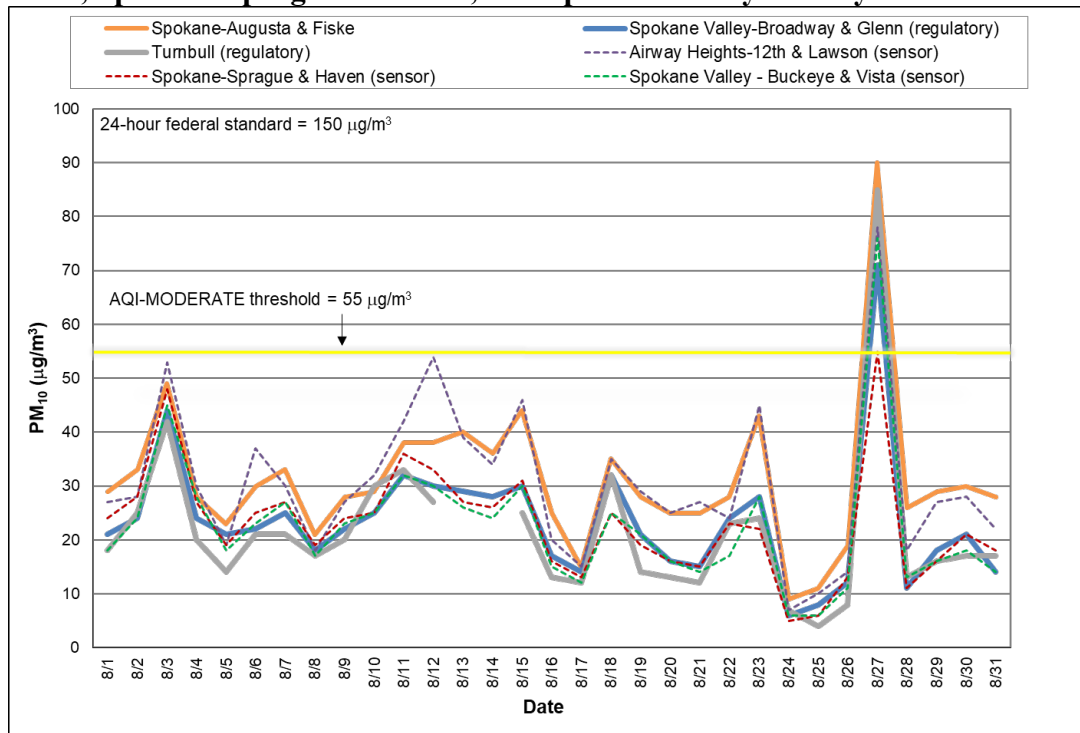


Figure 4: Eight-hour maximum ozone concentrations for the Spokane region in August. (Spokane-Greenbluff and Cheney-Turnbull air monitoring stations).

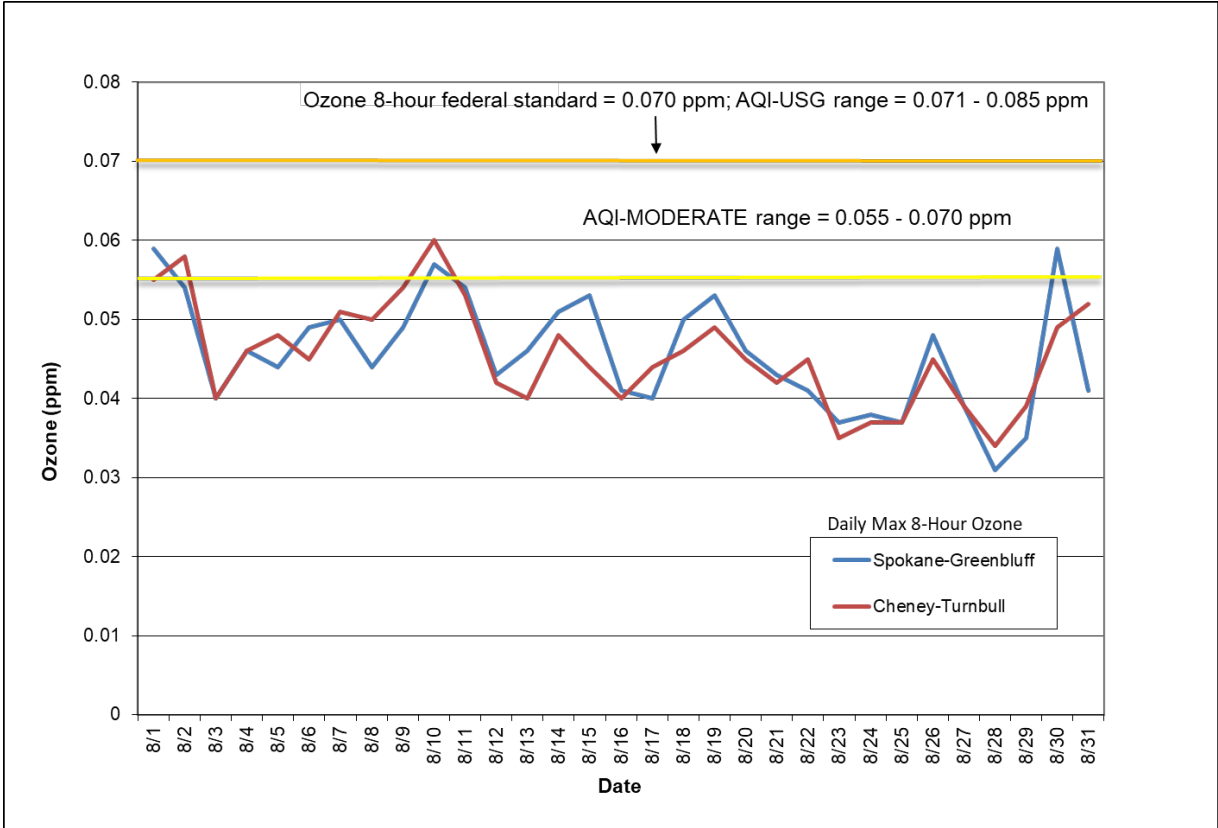


Table 1: AQI summary, August 2024. “Low-cost” sensor PM_{2.5} and PM₁₀ data are not represented here or in Tables 2 and 3.

Category	Number of days in August	Number of days this year to date
Good (0-50)	14	200
Moderate (51-100)	17	44
Unhealthy for Sensitive Groups (101-150)	0	0
Unhealthy (151-200)	0	0
Very Unhealthy (201-300)	0	0
Hazardous (>300)	0	0

Table 2: Maximum AQI values and pollutant concentrations for this reporting period.

Pollutant	AQI		Location	Date
Ozone	67 (conc. = 0.060 ppm)	Moderate	Turnbull National Wildlife Refuge	8/10
PM ₁₀	68 (mass conc. = 90 µg/m ³)	Moderate	Spokane – Augusta & Fiske	8/27
PM _{2.5}	82 (conc. = 26.0 µg/m ³)	Moderate	Spokane Valley – Broadway & Glenn	8/3

Table 3: Maximum AQI values and pollutant concentrations this year.

Pollutant	AQI		Location	Date
Ozone	100 (conc. = 0.070 ppm)	Moderate	Greenbluff	7/13
PM ₁₀	70 (mass conc. = 94 µg/m ³)	Moderate	Spokane – Augusta & Fiske	5/16
PM _{2.5}	82 (conc. = 26.0 µg/m ³)	Moderate	Spokane Valley – Broadway & Glenn	8/3

Appendix 1 – National Ambient Air Quality Standards

The Clean Air Act requires EPA to set National Ambient Air Quality Standards (NAAQS) for six common air pollutants, carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO₂), particulate matter (PM₁₀ and PM_{2.5}), ground-level ozone (O₃) and sulfur dioxide (SO₂; Table A-1). These are known as “criteria” pollutants because the US EPA established regulatory limits to concentrations in ambient air using human health or environmentally based criteria. Carbon monoxide, particulate matter and ozone are monitored in Spokane County by the Spokane Regional Clean Air Agency (SRCAA) and the Washington State Department of Ecology (Ecology).

Table A-1: National Ambient Air Quality Standards

Pollutant [links to historical tables of NAAQS reviews]	Primary/ Secondary	Averaging Time	Level	Form	
Carbon Monoxide (CO)	primary	8 hours	9 ppm	Not to be exceeded more than once per year	
		1 hour	35 ppm		
Lead (Pb)	primary and secondary	Rolling 3 month period	0.15 µg/m ³ (1)	Not to be exceeded	
Nitrogen Dioxide (NO₂)	primary	1 hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years	
	primary and secondary	1 year	53 ppb (2)	Annual Mean	
Ozone (O₃)	primary and secondary	8 hours	0.070 ppm (3)	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years	
Particle Pollution (PM)	PM _{2.5}	primary	1 year	9.0 µg/m ³	annual mean, averaged over 3 years
		secondary	1 year	15.0 µg/m ³	annual mean, averaged over 3 years
	primary and secondary	24 hours	35 µg/m ³	98th percentile, averaged over 3 years	
	PM ₁₀	primary and secondary	24 hours	150 µg/m ³	Not to be exceeded more than once per year on average over 3 years
Sulfur Dioxide (SO₂)	primary	1 hour	75 ppb (4)	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years	
	secondary	3 hours	0.5 ppm	Not to be exceeded more than once per year	

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 µg/m³ as a calendar quarter average) also remain in effect. (2) The level of the annual NO₂ standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level. (3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O₃ standards additionally remain in effect in some areas. Revocation of the previous (2008) O₃ standards and transitioning to the current (2015) standards will be addressed in the implementation rule for the current standards. (4) The previous SO₂ standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: (a) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (b) any area for which implementation plans providing for attainment of the current (2010) standard have not been submitted and approved and which is designated nonattainment under the previous SO₂ standards or is not meeting the requirements of a SIP call under the previous SO₂ standards (40 CFR 50.4.3)). A SIP call is an EPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the require NAAQS.

Appendix 2 – Air Quality Index

The Air Quality Index (AQI) is EPA’s color-coded tool for communicating daily air quality to the public and can be calculated for any of the criteria pollutants except lead, provided monitoring data are available. An index value above 100 indicates that the concentration of a criteria pollutant exceeded the limit established in the NAAQS. Categories of the AQI are “Good” (green, 0-50), “Moderate” (yellow, 51-100), “Unhealthy for Sensitive Groups” (USG; orange, 101-150), “Unhealthy” (red, 151-200), “Very Unhealthy” (purple, 201-300) and “Hazardous” (maroon, 301-500; Table A-2). The PM_{2.5} breakpoints were updated when the new annual PM_{2.5} standard went into effect on May 6th.

Table A-2: Air pollutant breakpoints for the Air Quality Index.

Air Quality Index Levels of Health Concern	Color Code	Index Numerical Value	Breakpoints				Health Effects
			O ₃ (ppm) 8-hour	PM _{2.5} (µg/m ³) 24-hour	PM ₁₀ (µg/m ³) 24-hour	CO (ppm) 8-hour	
Good	Green	0-50	0.000-0.054	0.0-9.0	0-54	0.0-4.4	Air quality is considered satisfactory and air pollution poses little or no risk.
Moderate	Yellow	51-100	0.055-0.070	9.1-35.4	55-154	4.5-9.4	Air quality is acceptable; however, for some pollutants there may be a moderate health concern for a very small number of people who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	Orange	101-150	0.071-0.085	35.5-55.4	155-254	9.5-12.4	People especially sensitive to air pollution may experience health effects. The general public is not likely to be affected. An AQI in this category or above indicates that air pollution exceeds levels acceptable under federal air quality standards.
Unhealthy	Red	151-200	0.086-0.105	55.5-125.4	255-354	12.5-15.4	Everyone may begin to experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	Purple	201-300	0.106-0.200	125.5-225.4	355-424	15.5-30.4	Health alert: everyone may experience more serious health effects.
Hazardous	Maroon	>300	0.201 to the Significant Harm Level* (0.600 ppm, 2 hour average)	225.5+	425+	30.5+	Health warnings of emergency conditions. The entire population is more likely to be affected.

*The significant harm level (SHL) is set at a level that represents imminent and substantial endangerment to public health.

Appendix 3

Table A-3(1): August summary air quality data for air monitoring stations in Spokane County. Ozone is reported as the daily maximum running 8-hour average in parts per million (ppm) and particulate matter mass concentration is reported as 24-hour averages in micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$). Equipment malfunctions caused the loss of $\text{PM}_{2.5}$ data from Airway Heights on the 4th and 5th and the loss of PM_{10} data from Turnbull on the 13th and 14th.

Date	Pollutant Concentration																									
	Ozone (ppm) Max 8-Hour Avg		$\text{PM}_{2.5}$ ($\mu\text{g}/\text{m}^3$) 24-Hour Avg															PM_{10} ($\mu\text{g}/\text{m}^3$) 24-Hour Avg								
	Ozone - Turnbull NWR	Ozone - Greenbluff	$\text{PM}_{2.5}$ - Airway Heights, 12th & Lawson	$\text{PM}_{2.5}$ - Colbert, E Greenbluff Rd	$\text{PM}_{2.5}$ - Spokane, Augusta & Fiske	$\text{PM}_{2.5}$ - Spokane, Monroe & Wellesley	$\text{PM}_{2.5}$ - Spokane, Sprague & Haven	$\text{PM}_{2.5}$ - Spokane Valley, Broadway & Glenn	$\text{PM}_{2.5}$ - Spokane, Garland & Lacey (sensor)	$\text{PM}_{2.5}$ - Spokane, Howard & Nora (sensor)	$\text{PM}_{2.5}$ - Spokane, Joseph & Cincinnati (sensor)	$\text{PM}_{2.5}$ - Spokane, Perry & North Foothills (sensor)	$\text{PM}_{2.5}$ - Spokane, Pittsburg & 4th (sensor)	$\text{PM}_{2.5}$ - Spokane, Stonewall & Vicksburg (sensor)	$\text{PM}_{2.5}$ - Spokane, Thurston & Crestline (sensor)	$\text{PM}_{2.5}$ - Spokane Valley, Buckeye & Vista (sensor)	$\text{PM}_{2.5}$ - Spokane Valley, Pines & Mirabeau (sensor)	$\text{PM}_{2.5}$ - Spokane Valley, Wellesley & Sullivan (sensor)	$\text{PM}_{2.5}$ - Turnbull NWR (sensor)	$\text{PM}_{2.5}$ - Greenbluff (sensor)	PM_{10} - Spokane, Augusta & Fiske	PM_{10} - Spokane Valley, Broadway & Glenn	PM_{10} - Turnbull NWR	PM_{10} - Airway Heights, 12th & Lawson (sensor)	PM_{10} - Spokane, Sprague & Haven (sensor)	PM_{10} - Spokane Valley, Buckeye & Vista (sensor)
8/1	0.055	0.059	6.8	5.1	8.5	7.3	9.7	7.3	3.3	3.3	3.1	4.4	3.0	2.9	2.7	3.3	3.0	2.2	3.3	2.0	29	21	18	27	24	18
8/2	0.058	0.054	10.5	7.3	12.2	9.3	10.3	9.0	5.3	5.6	5.0	6.0	4.9	4.2	5.2	5.8	5.3	4.3	8.8	3.9	33	24	25	28	28	24
8/3	0.040	0.040	10.0	22.7	24.9	21.0	23.6	26.0	17.9	16.8	17.9	19.3	16.0	16.3	18.6	20.1	19.7	16.4	16.4	17.9	49	44	42	53	48	45
8/4	0.046	0.046		17.8	19.4	16.7	17.4	18.8	16.5	14.9	16.2	16.8	13.5	15.2	14.1	18.0	18.2	15.2	10.9	15.8	28	24	20	30	27	28
8/5	0.048	0.044		9.6	11.8	11.5	10.9	10.2	9.9	9.4	10.4	10.5	8.2	9.3	8.7	10.0	9.3	7.7	7.2	8.7	23	21	14	19	19	18
8/6	0.045	0.049	11.2	10.5	11.6	11.1	11.4	10.3	7.4	7.4	8.0	8.2	6.6	7.4	6.7	8.1	7.7	6.4	6.7	6.5	30	22	21	37	25	23
8/7	0.051	0.050	12.5	10.1	14.6	12.7	14.0	11.8	9.8	8.8	9.0	10.5	8.2	8.4	8.7	10.0	9.0	7.4	8.8	8.4	33	25	21	30	27	27
8/8	0.050	0.044	8.3	8.5	9.3	10.4	9.2	8.3	13.1	12.8	12.8	13.6	12.4	12.6	13.0	13.4	13.7	12.3	12.5	13.1	21	18	17	18	19	17
8/9	0.054	0.049	11.3	11.4	13.2	14.5	13.0	12.5	18.9	18.3	18.3	19.6	17.7	18.0	18.4	18.9	19.3	17.4	18.4	18.0	28	22	20	27	24	23
8/10	0.060	0.057	12.5	11.2	14.8	15.4	14.2	13.3	19.3	19.1	19.6	20.3	18.2	18.4	19.4	19.7	20.3	18.0	20.4	17.7	29	25	30	32	25	25
8/11	0.053	0.054	18.1	16.7	17.7	19.2	19.0	16.9	21.9	21.4	22.5	23.6	20.9	21.1	21.3	22.2	21.8	19.4	23.1	21.0	38	32	33	42	36	32
8/12	0.042	0.043	12.6	13.6	13.7	14.0	13.8	13.2	16.7	16.7	17.8	17.5	14.9	16.7	15.6	17.5	16.6	14.8	13.4	17.1	38	30	27	54	33	30
8/13	0.040	0.046	7.3	7.5	8.2	7.6	8.2	6.6	9.2	9.4	9.5	10.0	8.6	9.1	9.1	9.1	9.1	7.5	9.1	7.8	40	29		39	27	26
8/14	0.048	0.051	9.3	9.3	11.8	9.9	11.4	10.3	13.6	13.0	13.7	14.4	12.2	12.7	11.9	13.3	12.9	11.0	11.6	11.7	36	28		34	26	24
8/15	0.044	0.053	10.8	10.5	13.3	11.1	11.4	9.5	14.6	14.0	15.1	16.6	13.0	13.6	13.7	15.0	15.3	13.0	13.4	13.0	44	30	25	46	31	30
8/16	0.040	0.041	6.5	6.8	9.5	8.2	7.8	6.6	12.0	11.5	12.3	12.5	10.9	11.7	11.3	12.4	12.4	11.1	11.7	12.1	25	17	13	20	16	15
8/17	0.044	0.040	6.2	5.7	6.5	7.5	6.6	6.6	11.3	10.7	11.5	12.1	10.3	10.6	11.0	12.2	11.6	10.2	11.7	10.4	15	14	12	15	13	12
8/18	0.046	0.050	4.3	3.7	5.7	5.9	5.5	4.5	6.4	5.4	6.7	6.2	5.1	6.1	5.2	5.8	6.0	5.0	5.0	6.1	35	32	32	35	25	25
8/19	0.049	0.053	4.4	4.4	6.6	6.3	6.6	4.8	6.8	5.7	7.0	6.7	5.4	6.5	5.4	7.2	7.6	7.0	4.7	8.1	28	21	14	29	19	21
8/20	0.045	0.046	2.7	3.4	4.5	4.5	4.7	2.8	5.2	5.1	5.3	5.4	4.6	5.1	4.8	5.0	5.4	4.6	4.6	4.7	25	16	13	25	16	16
8/21	0.042	0.043	4.8	5.3	6.4	6.2	4.5	5.2	8.4	8.3	8.8	9.7	7.8	8.0	8.0	8.0	8.7	7.5	7.8	7.8	25	15	12	27	15	14
8/22	0.045	0.041	7.6	6.7	8.9	8.2	8.1	6.1	11.2	11.2	11.0	11.8	10.9	10.5	10.6	10.7	11.4	10.0	11.0	10.0	28	24	23	24	23	17
8/23	0.035	0.037	6.8	6.7	6.8	6.1	5.7	5.0	8.9	8.8	9.5	9.5	7.9	8.8	8.7	8.5	9.7	8.1	8.7	8.2	43	28	24	45	22	28
8/24	0.037	0.038	1.4	2.5	2.4	3.5	2.7	2.1	4.2	4.6	4.7	4.6	4.0	4.7	4.1	4.5	5.1	4.0	4.3	4.1	9	6	7	7	5	6
8/25	0.037	0.037	2.9	3.8	3.7	4.7	3.6	4.3	6.1	6.4	6.8	6.8	5.8	6.2	6.0	5.8	6.3	5.3	5.9	5.5	11	8	4	10	6	6
8/26	0.045	0.048	4.6	3.1	5.2	5.6	5.1	3.8	8.0	8.2	8.0	8.4	7.2	7.4	7.3	7.4	8.2	6.6	7.1	6.6	19	12	8	14	13	11
8/27	0.039	0.039	5.7	5.6	6.6	5.3	5.7	4.7	6.7	6.4	6.8	6.7	5.8	6.4	6.9	5.6	7.2	6.2	6.8	5.5	90	71	85	78	55	76
8/28	0.034	0.031	1.3	1.4	3.8	3.7	4.2	2.6	4.5	4.5	4.5	4.6	4.2	4.3	4.2	3.6	4.9	4.0	4.3	3.8	26	11	13	18	11	13
8/29	0.039	0.035	3.8	3.1	6.1	5.1	5.4	4.5	6.7	6.4	6.0	6.6	5.8	5.5	5.4	5.0	6.5	5.1	5.5	4.6	29	18	16	27	16	16
8/30	0.049	0.059	4.6	3.4	7.4	6.1	7.0	5.3	6.9	7.2	7.7	7.3	6.9	6.3	5.7	5.0	6.8	5.3	6.5	4.5	30	21	17	28	21	18
8/31	0.052	0.041	4.8	4.5	7.6	6.1	7.7	4.0	6.5	7.6	7.5	7.6	6.3	5.9	5.2	5.0	6.5	4.7	7.9	4.1	28	14	17	22	18	14
AVG	0.046	0.046	7.4	7.8	9.8	9.2	9.3	8.3	10.2	10.0	10.4	10.9	9.3	9.7	9.6	10.2	10.5	9.0	9.6	9.3	31	23	21	30	23	23
MAX	0.060	0.059	18.1	22.7	24.9	21.0	23.6	26.0	21.9	21.4	22.5	23.6	20.9	21.1	21.3	22.2	21.8	19.4	23.1	21.0	90	71	85	78	55	76

Table A-3(2): August summary Air Quality Index (AQI) data for air monitoring stations in Spokane County. See Appendix 2 for more information about the AQI.

Air Quality Index (AQI)																											
Date	Ozone		PM _{2.5}															PM ₁₀									
	Ozone - Turnbull NWR	Ozone - Greenbluff	PM _{2.5} - Airway Heights, 12th & Lawson	PM _{2.5} - Colbert, E Greenbluff Rd	PM _{2.5} - Spokane, Augusta & Fiske	PM _{2.5} - Spokane, Monroe & Wellesley	PM _{2.5} - Spokane, Sprague & Haven	PM _{2.5} - Spokane Valley, Broadway & Glenn	PM _{2.5} - Spokane, Garland & Lacey (sensor)	PM _{2.5} - Spokane, Howard & Nora (sensor)	PM _{2.5} - Spokane, Joseph & Cincinnati (sensor)	PM _{2.5} - Spokane, Perry & North Foothills (sensor)	PM _{2.5} - Spokane, Thurston & Crestline (sensor)	PM _{2.5} - Spokane, Pittsburg & 4th (sensor)	PM _{2.5} - Spokane, Stonewall & Vicksburg (sensor)	PM _{2.5} - Spokane Valley, Buckeye & Vista (sensor)	PM _{2.5} - Spokane Valley, Pines & Mirabeau (sensor)	PM _{2.5} - Spokane Valley, Wellesley & Sullivan (sensor)	PM _{2.5} - Turnbull NWR (sensor)	PM _{2.5} - Greenbluff (sensor)	PM ₁₀ - Spokane, Augusta & Fiske	PM ₁₀ - Spokane Valley, Broadway & Glenn	PM ₁₀ - Turnbull NWR	PM ₁₀ - Airway Heights, 12th & Lawson (sensor)	PM ₁₀ - Spokane, Sprague & Haven (sensor)	PM ₁₀ - Spokane Valley, Buckeye & Vista (sensor)	MAXIMUM
8/1	51	64	38	28	47	41	52	41	18	18	17	24	17	16	15	18	17	12	18	11	27	19	17	25	22	17	64
8/2	61	50	54	41	57	51	53	50	29	31	28	33	27	23	29	32	29	24	49	22	31	22	23	26	26	22	61
8/3	37	37	53	76	80	73	78	82	67	65	67	70	64	64	69	71	71	65	65	67	45	41	39	49	44	42	82
8/4	43	43		67	70	65	66	69	65	62	64	65	59	62	60	68	68	62	54	63	26	22	19	28	25	26	70
8/5	44	41		52	56	55	54	53	52	52	53	54	46	51	48	53	51	43	40	48	21	19	13	18	18	17	56
8/6	42	45	55	54	56	55	55	53	41	41	44	46	37	41	37	45	43	36	37	36	28	20	19	34	23	21	56
8/7	47	46	57	53	61	58	60	56	52	49	50	54	46	47	48	53	50	41	49	47	31	23	19	28	25	25	61
8/8	46	41	46	47	51	53	51	46	58	58	58	59	57	58	58	59	60	57	57	58	19	17	16	17	18	16	60
8/9	50	45	55	55	59	61	58	57	69	68	68	71	67	68	68	69	70	66	68	68	26	20	19	25	22	21	71
8/10	67	58	57	55	62	63	61	59	70	70	71	72	68	68	70	71	72	68	72	67	27	23	28	30	23	23	72
8/11	49	50	68	65	67	70	69	66	75	74	76	78	73	73	74	75	75	70	77	73	35	30	31	39	33	30	78
8/12	39	40	58	59	60	60	60	59	65	65	67	67	62	65	63	67	65	62	59	66	35	28	25	50	31	28	67
8/13	37	43	41	42	46	42	46	37	51	52	52	53	48	51	51	51	51	42	51	43	37	27		36	25	24	53
8/14	44	47	51	51	56	52	55	53	59	58	60	61	57	58	56	59	58	55	56	56	33	26		31	24	22	61
8/15	41	49	54	54	59	55	55	52	61	60	62	65	58	59	60	62	63	58	59	58	41	28	23	43	29	28	65
8/16	37	38	36	38	52	46	43	37	56	55	57	57	54	56	55	57	57	55	56	57	23	16	12	19	15	14	57
8/17	41	37	34	32	36	42	37	37	55	54	55	57	53	54	55	57	56	53	56	53	14	13	11	14	12	11	57
8/18	43	46	24	21	32	33	31	25	36	30	37	34	28	34	29	32	33	28	28	34	32	30	30	32	23	23	46
8/19	45	49	24	24	37	35	37	27	38	32	39	37	30	36	30	40	42	39	26	45	26	19	13	27	18	19	49
8/20	42	43	15	19	25	25	26	16	29	28	29	30	26	28	27	28	30	26	26	26	23	15	12	23	15	15	43
8/21	39	40	27	29	36	34	25	29	47	46	49	52	43	44	44	44	48	42	44	43	23	14	11	25	14	13	52
8/22	42	38	42	37	49	46	45	34	55	55	55	56	54	54	54	54	55	53	55	53	26	22	21	22	21	16	56
8/23	32	34	38	37	38	34	32	28	49	49	52	52	44	49	48	47	52	45	48	46	40	26	22	42	20	26	52
8/24	34	35	8	14	13	19	15	12	23	26	26	26	22	26	23	25	28	22	24	23	8	6	6	6	5	6	35
8/25	34	34	16	21	21	26	20	24	34	36	38	38	32	34	33	32	35	29	33	31	10	7	4	9	6	6	38
8/26	42	44	26	17	29	31	28	21	44	46	44	47	40	41	41	41	46	37	39	37	18	11	7	13	12	10	47
8/27	36	36	32	31	37	29	32	26	37	36	38	37	32	36	38	31	40	34	38	31	68	59	66	62	51	61	68
8/28	31	29	7	8	21	21	23	14	25	25	25	26	23	24	23	20	27	22	24	21	24	10	12	17	10	12	31
8/29	36	32	21	17	34	28	30	25	37	36	33	37	32	31	30	28	36	28	31	26	27	17	15	25	15	15	37
8/30	45	64	26	19	41	34	39	29	38	40	43	41	38	35	32	28	38	29	36	25	28	19	16	26	19	17	64
8/31	48	38	27	25	42	34	43	22	36	42	42	42	35	33	29	28	36	26	44	23	26	13	16	20	17	13	48
AVG	43	43	38	38	46	44	45	40	48	47	48	50	44	46	45	47	48	43	46	44	28	21	19	28	21	21	57
MAX	67	64	68	76	80	73	78	82	75	74	76	78	73	73	74	75	75	70	77	73	68	59	66	62	51	61	82