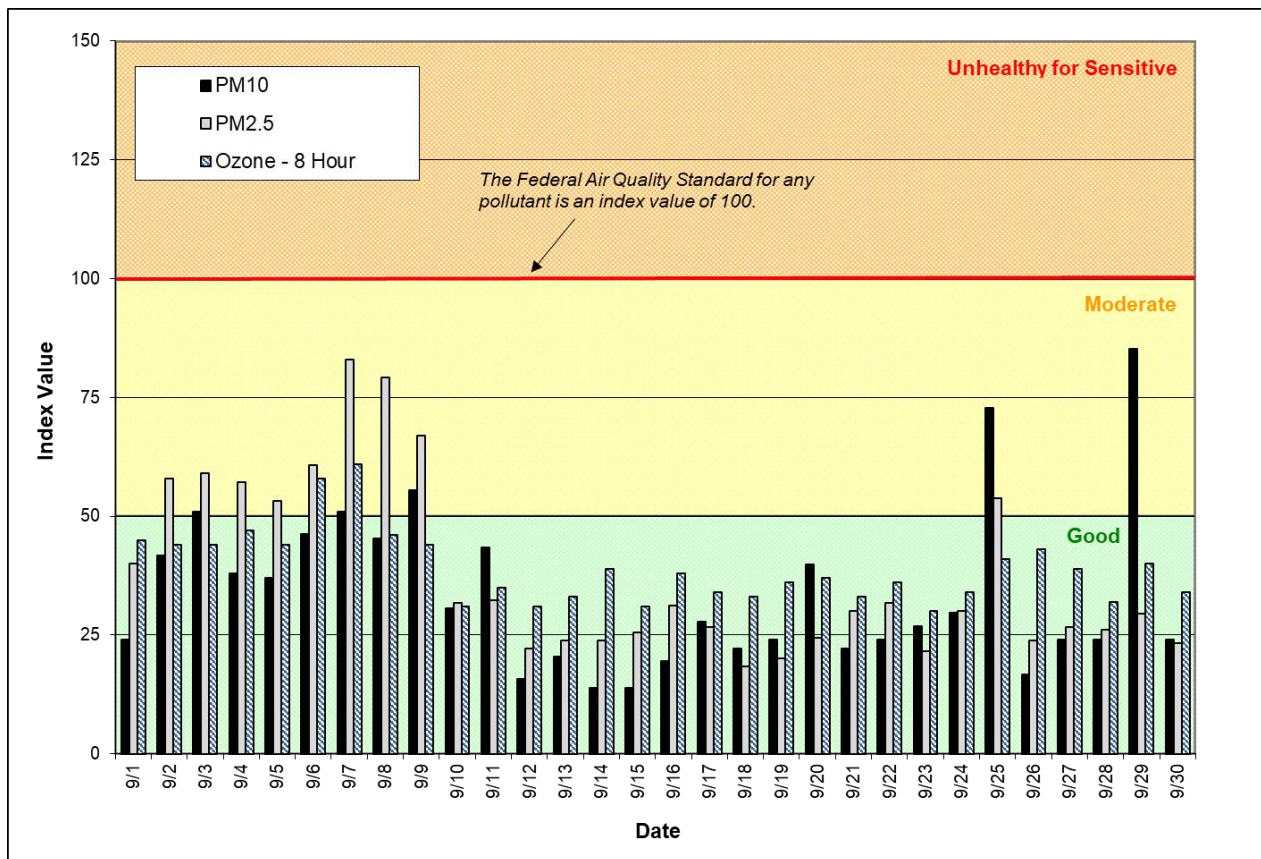


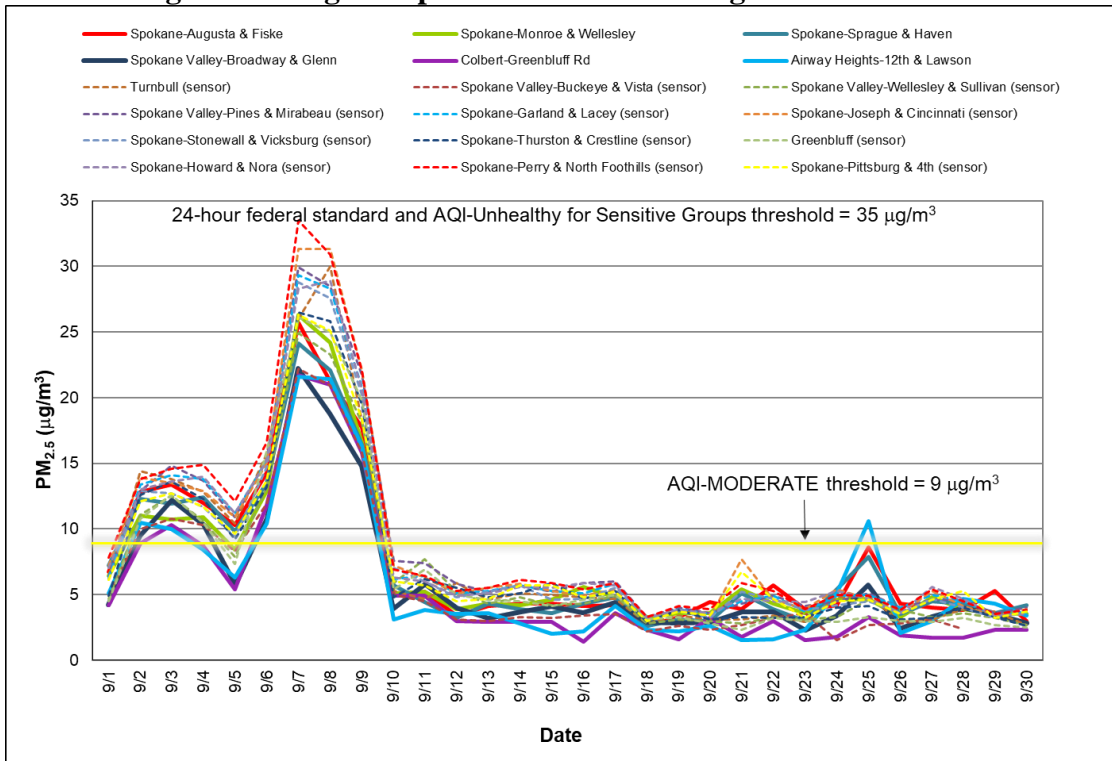
# Spokane Regional Clean Air Agency Air Quality Report - September 2024

Wildfire smoke from Oregon and central Idaho wildfires drifted into the Spokane area on southerly middle atmosphere (850-500 millibar level) winds on September 7<sup>th</sup>, 8<sup>th</sup>, and 9<sup>th</sup> which resulted in the highest daily PM<sub>2.5</sub> reading so far this year – an Air Quality Index (AQI) value of 83 (Moderate air quality, 24-hour average mass concentration = 26.3 µg/m<sup>3</sup>) recorded at Spokane-Monroe & Wellesley on the 7<sup>th</sup> (**Figures 1 and 2, Tables 1 and 2**). Air quality remained good from the 10<sup>th</sup> through the 24<sup>th</sup> with the passage of a series of low-pressure systems and a reduction of wildfire activity. Cold fronts brought strong winds on the 25<sup>th</sup> and 29<sup>th</sup>. Blowing dust pushed PM<sub>10</sub> levels well into the AQI-Moderate range both days and resulted in the worst air quality of the month and the highest PM<sub>10</sub> concentration recorded so far this year – a 24-hour average mass concentration of 124 µg/m<sup>3</sup> (AQI = 85, Moderate air quality) recorded at Turnbull National Wildlife Refuge on the 29<sup>th</sup> (**Figure 3**). “Low-cost” sensors reported slightly higher PM<sub>2.5</sub> and PM<sub>10</sub> levels than the Agency’s reference-grade monitors and, although those data are provided in this report, they are not represented in the maximum AQI values reported in **Tables 1 and 2** or counted in the AQI category totals in **Table 3**. Ozone pollution remained within the AQI-Good range on all but two days, the 6<sup>th</sup> and 7<sup>th</sup> (**Figure 4**). Ozone monitoring was concluded for the year at the end of September and will resume next May.

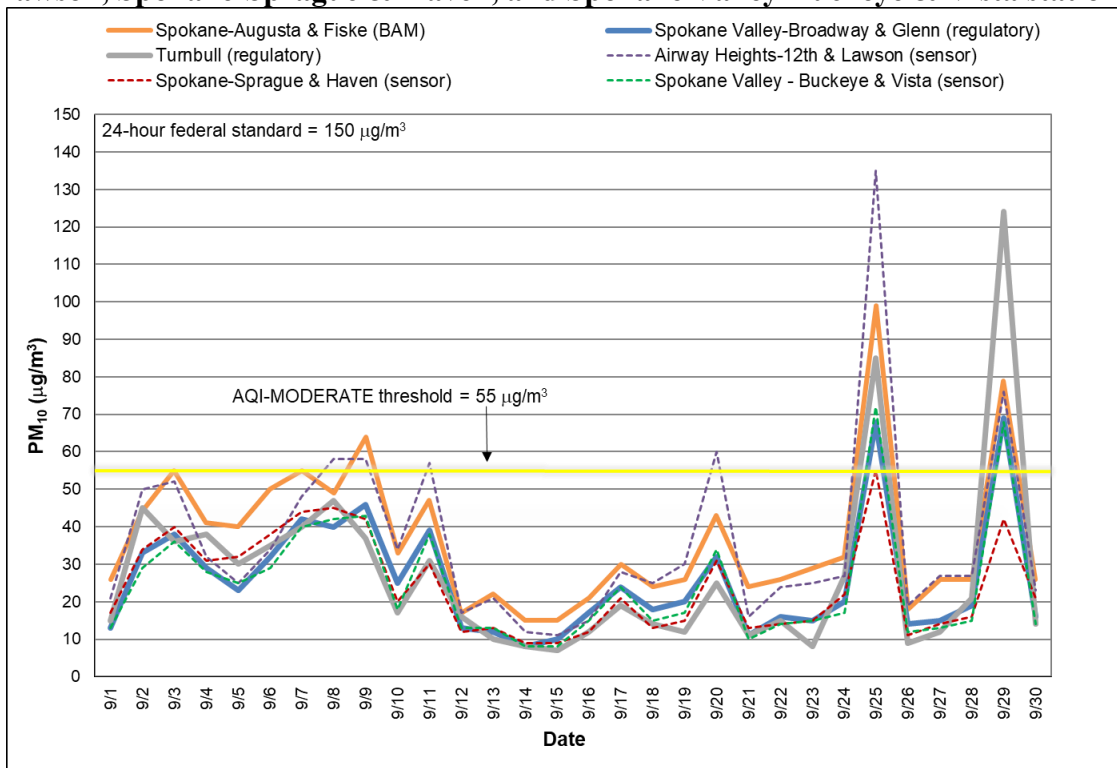
**Figure 1: Daily Air Quality Index (AQI) values for September 2024.** The data represent the maximum AQI values across all monitoring stations within Spokane County. Air pollutants monitored in Spokane County by Spokane Regional Clean Air Agency and the Washington State Department of Ecology are represented: PM<sub>10</sub>, PM<sub>2.5</sub>, and ozone. “Low-cost” sensor PM<sub>2.5</sub> and PM<sub>10</sub> data are not represented here.



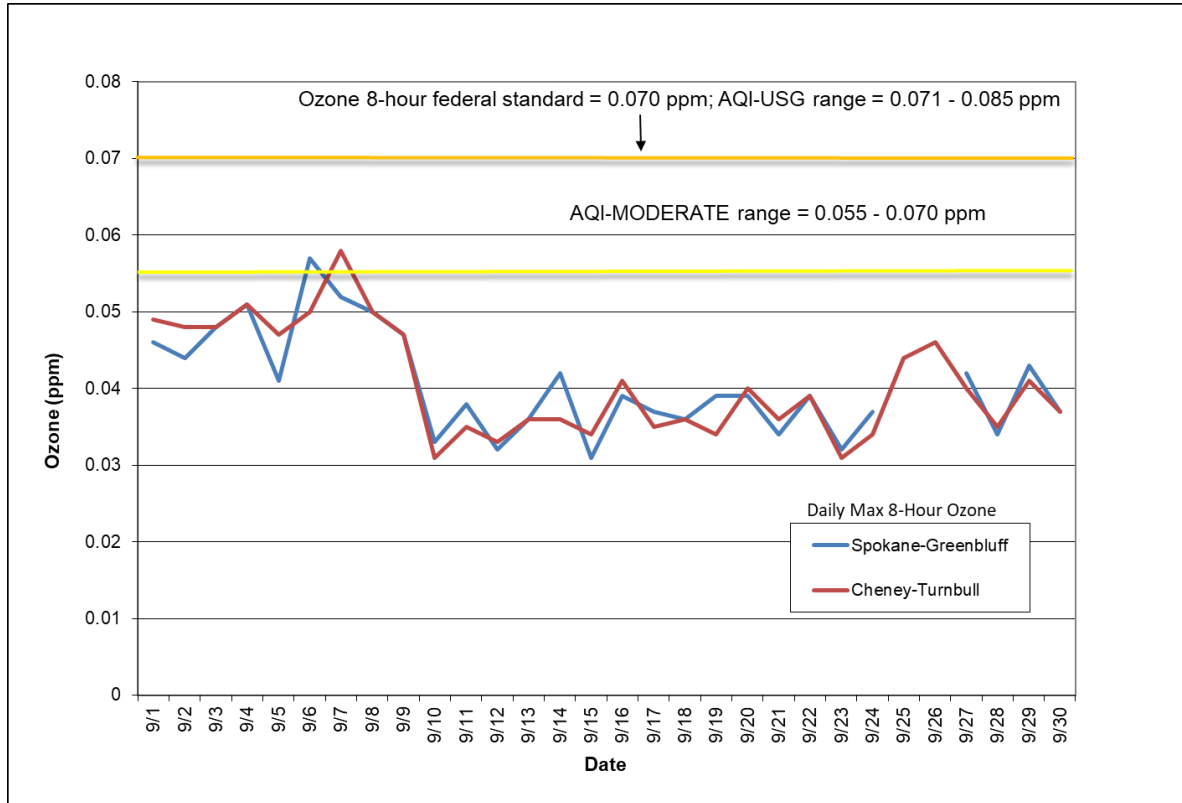
**Figure 2: Daily 24-hour average PM<sub>2.5</sub>, all Spokane County monitoring stations, September 2024.** Data depicted using dashed lines were collected using “low-cost” sensors. The Washington State Department of Ecology made changes to the calibration method for the sensors on August 8<sup>th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



**Figure 3: Daily 24-hour average PM<sub>10</sub>, all Spokane County monitoring stations, September 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 PM<sub>10</sub> sensors at the Airway Heights-12<sup>th</sup> & Lawson, Spokane-Sprague & Haven, and Spokane Valley-Buckeye & Vista stations.



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



**Table 1: Maximum AQI values and pollutant concentrations for this reporting period. “Low-cost” sensor data are not represented in Tables 1, 2, or 3.**

Pollutant	AQI		Location	Date
Ozone	61 (conc. = 0.058 ppm)	Moderate	Turnbull National Wildlife Refuge	9/7
PM <sub>10</sub>	85 (mass conc. = 124 µg/m <sup>3</sup> )	Moderate	Turnbull National Wildlife Refuge	9/29
PM <sub>2.5</sub>	83 (conc. = 26.3 µg/m <sup>3</sup> )	Moderate	Spokane – Monroe & Wellesley	9/7

**Table 2: Maximum AQI values and pollutant concentrations this year.**

Pollutant	AQI		Location	Date
Ozone	100 (conc. = 0.070 ppm)	Moderate	Greenbluff	7/13
PM <sub>10</sub>	85 (mass conc. = 124 µg/m <sup>3</sup> )	Moderate	Turnbull National Wildlife Refuge	9/29
PM <sub>2.5</sub>	83 (conc. = 26.3 µg/m <sup>3</sup> )	Moderate	Spokane – Monroe & Wellesley	9/7

**Table 3: AQI summary, September 2024.**

Category	Number of days in September	Number of days this year to date
Good (0-50)	20	220
Moderate (51-100)	10	54
Unhealthy for Sensitive Groups (101-150)	0	0
Unhealthy (151-200)	0	0
Very Unhealthy (201-300)	0	0
Hazardous (>300)	0	0

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<sub>2.5</sub>, and PM<sub>10</sub> mass concentrations and AQIs across the Spokane-area ambient air monitoring network is provided in **Appendix 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 (NO<sub>2</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), ground-level ozone (O<sub>3</sub>) and sulfur dioxide (SO<sub>2</sub>; 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
<a href="#">Carbon Monoxide (CO)</a>		primary	8 hours	9 ppm	Not to be exceeded more than once per year
			1 hour	35 ppm	
<a href="#">Lead (Pb)</a>		primary and secondary	Rolling 3 month period	0.15 µg/m <sup>3</sup> (1)	Not to be exceeded
<a href="#">Nitrogen Dioxide (NO<sub>2</sub>)</a>		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
<a href="#">Ozone (O<sub>3</sub>)</a>		primary and secondary	8 hours	0.070 ppm (3)	Annual fourth-highest daily maximum 8-hour concentration, averaged over 3 years
<a href="#">Particle Pollution (PM)</a>	PM <sub>2.5</sub>	primary	1 year	9.0 µg/m <sup>3</sup>	annual mean, averaged over 3 years
		secondary	1 year	15.0 µg/m <sup>3</sup>	annual mean, averaged over 3 years
		primary and secondary	24 hours	35 µg/m <sup>3</sup>	98th percentile, averaged over 3 years
	PM <sub>10</sub>	primary and secondary	24 hours	150 µg/m <sup>3</sup>	Not to be exceeded more than once per year on average over 3 years
<a href="#">Sulfur Dioxide (SO<sub>2</sub>)</a>		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/m<sup>3</sup> as a calendar quarter average) also remain in effect. (2) The level of the annual NO<sub>2</sub> 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) O<sub>3</sub> standards additionally remain in effect in some areas. Revocation of the previous (2008) O<sub>3</sub> standards and transitioning to the current (2015) standards will be addressed in the implementation rule for the current standards. (4) The previous SO<sub>2</sub> 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 SO<sub>2</sub> standards or is not meeting the requirements of a SIP call under the previous SO<sub>2</sub> 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<sub>2.5</sub> breakpoints were updated when the new annual PM<sub>2.5</sub> standard went into effect on May 6<sup>th</sup>.

**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 <sub>3</sub> (ppm) 8-hour	PM <sub>2.5</sub> (µg/m <sup>3</sup> ) 24-hour	PM <sub>10</sub> (µg/m <sup>3</sup> ) 24-hour	CO (ppm) 8-hour	
<b>Good</b>	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.
<b>Moderate</b>	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.
<b>Unhealthy for Sensitive Groups</b>	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.
<b>Unhealthy</b>	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.
<b>Very Unhealthy</b>	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.
<b>Hazardous</b>	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): September 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 ( $\mu\text{g}/\text{m}^3$ ). Interruptions of cellular communications resulted in the loss of Greenbluff ozone data on the 25<sup>th</sup> and 26<sup>th</sup> and Buckeye & Vista PM<sub>2.5</sub> data on the 29<sup>th</sup> and 30<sup>th</sup>.

Date	Pollutant Concentration																									
	Ozone (ppm) Max 8-Hour Avg		PM <sub>2.5</sub> ( $\mu\text{g}/\text{m}^3$ ) 24-Hour Avg															PM <sub>10</sub> ( $\mu\text{g}/\text{m}^3$ ) 24-Hour Avg								
	Ozone - Turnbull NWR	Ozone - Greenbluff	PM <sub>2.5</sub> - Airway Heights, 12th & Lawson	PM <sub>2.5</sub> - Colbert, E Greenbluff Rd	PM <sub>2.5</sub> - Spokane, Augusta & Fiske	PM <sub>2.5</sub> - Spokane, Monroe & Wellesley	PM <sub>2.5</sub> - Spokane, Sprague & Haven	PM <sub>2.5</sub> - Spokane Valley, Broadway & Glenn	PM <sub>2.5</sub> - Spokane, Garland & Lacey (sensor)	PM <sub>2.5</sub> - Spokane, Howard & Nora (sensor)	PM <sub>2.5</sub> - Spokane, Joseph & Cincinnati (sensor)	PM <sub>2.5</sub> - Spokane, Perry & North Foothills (sensor)	PM <sub>2.5</sub> - Spokane, Pittsburg & 4th (sensor)	PM <sub>2.5</sub> - Spokane, Stonewall & Vicksburg (sensor)	PM <sub>2.5</sub> - Spokane, Thurston & Crestline (sensor)	PM <sub>2.5</sub> - Spokane Valley, Buckeye & Vista (sensor)	PM <sub>2.5</sub> - Spokane Valley, Pines & Mirabeau (sensor)	PM <sub>2.5</sub> - Spokane Valley, Wellesley & Sullivan (sensor)	PM <sub>2.5</sub> - Turnbull NWR (sensor)	PM <sub>2.5</sub> - Greenbluff (sensor)	PM <sub>10</sub> - Spokane, Augusta & Fiske	PM <sub>10</sub> - Spokane Valley, Broadway & Glenn	PM <sub>10</sub> - Turnbull NWR	PM <sub>10</sub> - Airway Heights, 12th & Lawson (sensor)	PM <sub>10</sub> - Spokane, Sprague & Haven (sensor)	PM <sub>10</sub> - Spokane Valley, Buckeye & Vista (sensor)
9/1	0.049	0.046	5.1	4.2	6.7	6.4	7.2	4.2	6.3	7.0	7.2	7.8	6.1	6.2	4.9	4.9	6.4	4.7	6.2	4.5	26	13	15	21	17	13
9/2	0.048	0.044	10.5	8.9	12.8	11.0	12.3	9.5	13.4	13.0	13.9	13.8	12.1	12.9	12.6	10.0	12.9	11.1	14.4	10.8	44	33	45	50	34	29
9/3	0.048	0.048	10.0	10.3	13.4	10.7	11.9	12.2	14.1	13.6	13.5	14.6	12.7	12.7	13.6	10.8	14.8	12.5	13.8	12.6	55	38	36	52	40	36
9/4	0.051	0.051	8.4	8.7	12.0	10.9	12.4	10.3	13.8	14.0	12.9	14.9	11.7	11.7	12.3	10.3	13.7	10.6	12.8	10.5	41	29	38	32	31	28
9/5	0.047	0.041	6.3	5.4	10.3	8.4	9.8	5.7	11.2	11.2	10.9	12.1	9.6	9.4	9.2	8.3	10.9	7.9	10.4	7.3	40	23	30	25	32	25
9/6	0.050	0.057	10.4	11.8	14.3	12.9	13.5	10.8	15.2	15.2	15.0	16.6	13.7	14.7	13.2	11.9	15.3	13.1	15.7	15.9	50	32	35	34	38	29
9/7	0.058	0.052	21.6	21.7	25.7	26.3	24.1	22.2	29.3	28.3	31.3	33.5	26.3	28.8	26.5	22.2	29.9	24.9	26.0	26.1	55	42	40	48	44	40
9/8	0.050	0.050	21.4	21.0	21.2	24.2	22.1	18.8	28.3	28.9	31.3	30.9	25.1	27.6	25.8	20.9	28.5	23.3	30.0	25.0	49	40	47	58	45	42
9/9	0.047	0.047	16.3	15.8	17.7	16.6	16.4	14.8	20.8	20.6	22.1	22.0	18.3	20.2	19.5	15.8	21.7	18.1	18.2	19.8	64	46	37	58	42	43
9/10	0.031	0.033	3.1	4.9	4.9	5.1	5.7	3.9	6.2	6.3	7.2	6.9	6.0	7.0	4.8	5.0	7.6	5.9	5.3	5.4	33	25	17	34	20	18
9/11	0.035	0.038	3.8	4.9	5.2	5.2	4.4	5.8	6.4	6.0	6.3	6.4	5.7	6.0	6.2	4.5	7.4	7.7	4.7	6.9	47	39	31	57	30	38
9/12	0.033	0.032	3.5	3.0	3.4	3.9	3.2	4.0	5.1	4.9	5.1	5.3	4.5	4.8	5.5	3.1	5.8	5.2	5.9	5.0	17	13	16	17	12	13
9/13	0.036	0.036	3.6	2.9	4.1	4.3	4.3	3.2	5.3	5.1	5.5	5.5	4.7	5.2	4.8	3.0	5.2	4.3	4.6	4.6	22	12	10	21	13	13
9/14	0.036	0.042	2.8	2.9	4.3	4.2	3.9	3.7	5.7	5.6	5.8	6.1	5.7	5.7	5.1	3.3	5.7	4.8	5.1	4.5	15	8	8	12	9	8
9/15	0.034	0.031	2.0	2.9	4.3	4.6	3.6	4.1	5.3	5.5	5.3	5.9	5.7	4.6	5.9	3.2	5.2	4.2	5.0	4.1	15	10	7	11	9	8
9/16	0.041	0.039	2.2	1.4	4.1	5.6	4.3	3.6	5.1	5.9	4.9	5.4	4.8	4.7	4.7	3.4	5.9	4.3	4.8	4.6	21	17	12	15	12	15
9/17	0.035	0.037	4.1	3.6	4.2	4.8	4.8	4.4	5.8	5.7	5.4	5.9	5.2	5.5	5.3	3.5	6.0	4.9	4.7	5.0	30	24	19	28	21	24
9/18	0.036	0.036	2.3	2.3	2.6	3.3	2.6	2.9	3.1	3.3	3.2	3.3	3.0	3.2	2.9	2.2	3.3	2.8	2.8	3.1	24	18	14	25	13	15
9/19	0.034	0.039	2.2	1.6	3.3	3.6	3.1	2.8	3.9	3.8	3.8	4.1	3.7	3.7	3.8	2.6	4.0	3.1	3.4	3.3	26	20	12	30	15	17
9/20	0.040	0.039	2.6	3.2	4.4	3.6	3.0	2.9	3.5	3.6	3.2	3.9	3.4	3.2	3.1	2.3	3.6	3.0	3.1	2.8	43	32	25	60	31	34
9/21	0.036	0.034	1.5	1.8	3.9	5.4	5.1	3.7	4.5	4.7	7.7	5.9	6.7	5.2	3.3	2.7	4.3	2.8	3.1	2.3	24	11	11	16	13	10
9/22	0.039	0.039	1.6	3.0	5.7	4.3	3.9	3.7	4.9	4.5	4.6	5.3	4.7	4.7	3.2	3.2	4.9	3.3	3.4	3.2	26	16	15	24	14	14
9/23	0.031	0.032	2.3	1.5	3.9	3.6	3.0	2.3	3.7	4.4	3.9	3.9	3.2	3.8	3.3	3.6	4.1	3.1	2.9	3.0	29	15	8	25	15	15
9/24	0.034	0.037	5.1	1.8	4.2	4.6	5.4	3.4	4.9	5.3	5.4	5.0	4.5	4.2	4.0	1.5	4.5	3.3	4.8	2.9	32	20	27	27	22	17
9/25	0.044		10.6	3.3	8.6	4.7	7.9	5.7	5.0	4.7	4.7	4.9	4.6	4.5	4.1	2.7	5.1	4.6	4.9	3.3	99	68	85	135	55	72
9/26	0.046		2.1	1.9	4.3	3.3	3.5	2.4	4.0	3.6	3.6	3.8	3.5	3.6	3.1	2.8	4.0	3.8	2.9	3.0	18	14	9	19	11	12
9/27	0.040	0.042	3.0	1.7	4.0	4.8	4.5	3.3	5.0	5.6	5.3	5.4	4.6	4.7	3.2	3.1	4.6	3.3	3.1	2.9	26	15	12	27	14	13
9/28	0.035	0.034	4.7	1.7	3.8	3.9	4.3	4.0	4.5	4.7	4.1	4.5	5.3	4.0	4.0	2.4	4.6	3.6	3.9	3.2	26	19	21	27	16	15
9/29	0.041	0.043	4.3	2.3	5.3	3.6	3.6	3.5	3.4	3.4	3.4	3.5	3.2	3.2	3.3		3.6	3.2	3.7	2.7	79	69	124	76	42	68
9/30	0.037	0.037	3.4	2.3	3.0	3.5	4.2	2.8	3.7	3.5	3.9	3.8	3.7	3.8	2.6		4.0	2.7	2.7	2.5	26	16	14	23	21	14
AVG	0.041	0.041	6.0	5.4	7.5	7.2	7.3	6.2	8.4	8.4	8.7	9.0	7.7	8.0	7.5	6.2	8.6	7.0	7.7	7.0	37	26	27	36	24	25
MAX	0.058	0.057	21.6	21.7	25.7	26.3	24.1	22.2	29.3	28.9	31.3	33.5	26.3	28.8	26.5	22.2	29.9	24.9	30.0	26.1	99	69	124	135	55	72

**Table A-3(2): September 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 <sub>2.5</sub>															PM <sub>10</sub>									
	Ozone - Turnbull NWR	Ozone - Greenbluff	PM <sub>2.5</sub> - Airway Heights, 12th & Lawson	PM <sub>2.5</sub> - Colbert, E Greenbluff Rd	PM <sub>2.5</sub> - Spokane, Augusta & Fiske	PM <sub>2.5</sub> - Spokane, Monroe & Wellesley	PM <sub>2.5</sub> - Spokane, Sprague & Haven	PM <sub>2.5</sub> - Spokane Valley, Broadway & Glenn	PM <sub>2.5</sub> - Spokane, Garland & Lacey (sensor)	PM <sub>2.5</sub> - Spokane, Howard & Nora (sensor)	PM <sub>2.5</sub> - Spokane, Joseph & Cincinnati (sensor)	PM <sub>2.5</sub> - Spokane, Perry & North Foothills (sensor)	PM <sub>2.5</sub> - Spokane, Thurston & Crestline (sensor)	PM <sub>2.5</sub> - Spokane, Pittsburg & 4th (sensor)	PM <sub>2.5</sub> - Spokane, Stonewall & Vicksburg (sensor)	PM <sub>2.5</sub> - Spokane Valley, Buckeye & Vista (sensor)	PM <sub>2.5</sub> - Spokane Valley, Pines & Mirabeau (sensor)	PM <sub>2.5</sub> - Spokane Valley, Wellesley & Sullivan (sensor)	PM <sub>2.5</sub> - Turnbull NWR (sensor)	PM <sub>2.5</sub> - Greenbluff (sensor)	PM <sub>10</sub> - Spokane, Augusta & Fiske	PM <sub>10</sub> - Spokane Valley, Broadway & Glenn	PM <sub>10</sub> - Turnbull NWR	PM <sub>10</sub> - Airway Heights, 12th & Lawson (sensor)	PM <sub>10</sub> - Spokane, Sprague & Haven (sensor)	PM <sub>10</sub> - Spokane Valley, Buckeye & Vista (sensor)	MAXIMUM
9/1	45	43	28	23	37	36	40	23	35	39	40	43	34	34	27	27	36	26	34	25	24	12	14	19	16	12	45
9/2	44	41	54	49	58	55	57	52	59	58	60	60	57	58	58	54	55	55	61	54	41	31	42	46	31	27	61
9/3	44	44	53	53	59	54	56	57	60	59	61	58	58	59	54	62	57	60	58	51	35	33	48	37	33	62	
9/4	47	47	47	48	56	54	57	53	60	60	58	62	56	56	57	53	60	54	58	54	38	27	35	30	29	26	62
9/5	44	38	35	30	53	47	52	32	55	55	54	57	52	52	51	46	54	44	53	41	37	21	28	23	30	23	57
9/6	46	58	53	56	61	58	59	54	62	62	62	65	60	61	59	56	63	58	63	64	46	30	32	31	35	27	65
9/7	61	48	74	74	82	83	79	75	89	87	92	96	83	88	83	75	90	80	82	83	51	39	37	44	41	37	96
9/8	46	46	74	73	74	79	75	69	87	88	92	92	81	85	82	73	87	77	90	81	45	37	44	52	42	39	92
9/9	44	44	64	63	67	65	65	62	73	72	75	75	68	72	70	63	74	68	68	71	55	43	34	52	39	40	75
9/10	29	31	17	27	27	28	32	22	34	35	40	38	33	39	27	28	42	33	29	30	31	23	16	31	19	17	42
9/11	32	35	21	27	29	29	24	32	36	33	35	36	32	33	34	25	41	43	26	38	44	36	29	52	28	35	52
9/12	31	30	19	17	19	22	18	22	28	27	28	29	25	27	31	17	32	29	33	28	16	12	15	16	11	12	33
9/13	33	33	20	16	23	24	24	18	29	28	31	31	26	29	27	17	29	24	26	26	20	11	9	19	12	12	33
9/14	33	39	16	16	24	23	22	21	32	31	32	34	32	32	28	18	32	27	28	25	14	7	7	11	8	7	39
9/15	31	29	11	16	24	26	20	23	29	31	29	33	32	26	33	18	29	23	28	23	14	9	6	10	8	7	33
9/16	38	36	12	8	23	31	24	20	28	33	27	30	27	26	26	19	33	24	27	26	19	16	11	14	11	14	38
9/17	32	34	23	20	23	27	27	24	32	32	30	33	29	31	29	19	33	27	26	28	28	22	18	26	19	22	34
9/18	33	33	13	13	14	18	14	16	17	18	18	18	17	18	16	12	18	16	16	17	22	17	13	23	12	14	33
9/19	31	36	12	9	18	20	17	16	22	21	21	23	21	21	21	14	22	17	19	18	24	19	11	28	14	16	36
9/20	37	36	14	18	24	20	17	16	19	20	18	22	19	18	17	13	20	17	17	16	40	30	23	53	29	31	53
9/21	33	31	8	10	22	30	28	21	25	26	43	33	37	29	18	15	24	16	17	13	22	10	10	15	12	9	43
9/22	36	36	9	17	32	24	22	21	27	25	26	29	26	26	18	18	27	18	19	18	24	15	14	22	13	13	36
9/23	29	30	13	8	22	20	17	13	21	24	22	22	18	21	18	20	23	17	16	17	27	14	7	23	14	14	30
9/24	31	34	28	10	23	26	30	19	27	29	30	28	25	23	22	8	25	18	27	16	30	19	25	25	20	16	34
9/25	41	54	18	48	26	44	32	28	26	26	27	26	25	23	15	28	26	27	18	73	57	66	91	51	59	91	
9/26	43	12	11	24	18	19	13	22	20	20	21	19	20	17	16	22	21	16	17	17	13	8	18	10	11	43	
9/27	37	39	17	9	22	27	25	18	28	31	29	30	26	26	18	17	26	18	17	16	24	14	11	25	13	12	39
9/28	32	31	26	9	21	22	24	22	25	26	23	25	29	22	22	13	26	20	22	18	24	18	19	25	15	14	32
9/29	38	40	24	13	29	20	20	19	19	19	19	19	18	18	18	20	18	21	15	63	58	85	61	39	57	85	
9/30	34	34	19	13	17	19	23	16	21	19	22	21	21	21	14	22	15	15	14	24	15	13	21	19	13	34	
AVG	38	38	29	26	35	34	34	30	38	38	39	40	36	36	34	29	39	33	35	32	33	24	24	32	23	22	50
MAX	61	58	74	74	82	83	79	75	89	88	92	96	83	88	83	75	90	80	90	83	73	58	85	91	51	59	96