Spokane Regional Clean Air Agency
Air Quality Report - June 2025

The Air Quality Index (AQI) reached the MODERATE category on seven days in June and remained in the GOOD range on the remaining twenty-three days (**Figure 1**, **Table 1**). Ozone accounted for six of the AQI-MODERATE days and was the predominant pollutant on all but two days. $PM_{2.5}$ reached MODERATE on one day (June 12th) and was the predominant pollutant on that day. The highest AQI value for the month was 62, which was based on an 8-hour running average concentration of 0.058 ppm recorded on the 11th at Spokane-Greenbluff monitoring station (**Figure 2, Table 2**). $PM_{2.5}$ and PM_{10} mass concentration data reported by the network of "low-cost" sensors are not included in Figure 1 or Table 1, 2, or 3. Daily $PM_{2.5}$ and PM_{10} concentrations recorded across the monitoring network are shown in **Figures 3 and 4,** respectively.

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 PM_{10} concentrations and AQIs across the Spokane-area ambient air monitoring network is provided in **Appendix 3**.

Figure 1: Daily Air Quality Index (AQI) values for June 2025. The data represent the maximum AQI values across all monitoring stations within Spokane County, but "low-cost" sensor $PM_{2.5}$ and PM_{10} data are not represented here.

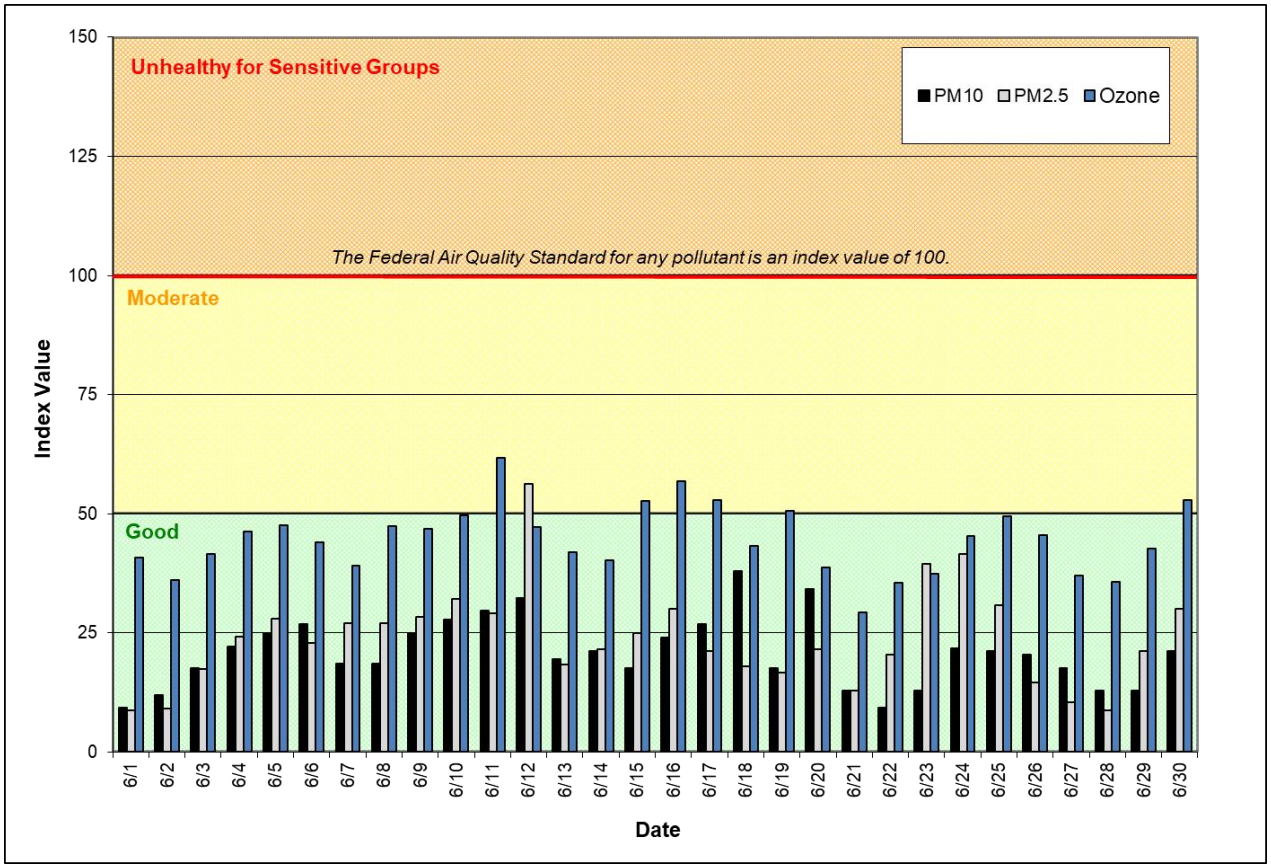

Figure 2: Eight-hour maximum ozone concentrations for the Spokane region in September measured at the Spokane-Greenbluff and Cheney-Turnbull air monitoring stations.

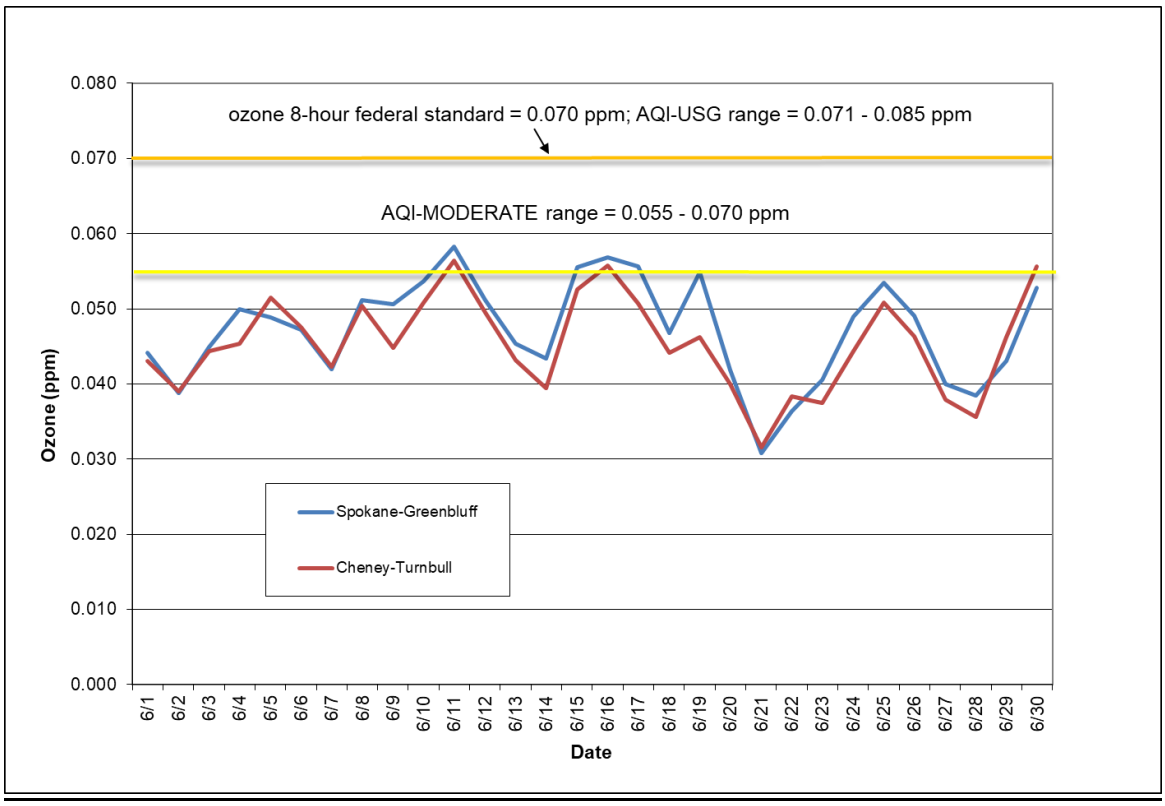

Figure 3: Daily 24-hour average $PM_{2.5}$, all Spokane County monitoring stations, June 2025. Data plotted using dashed lines were collected using "low-cost" sensors.

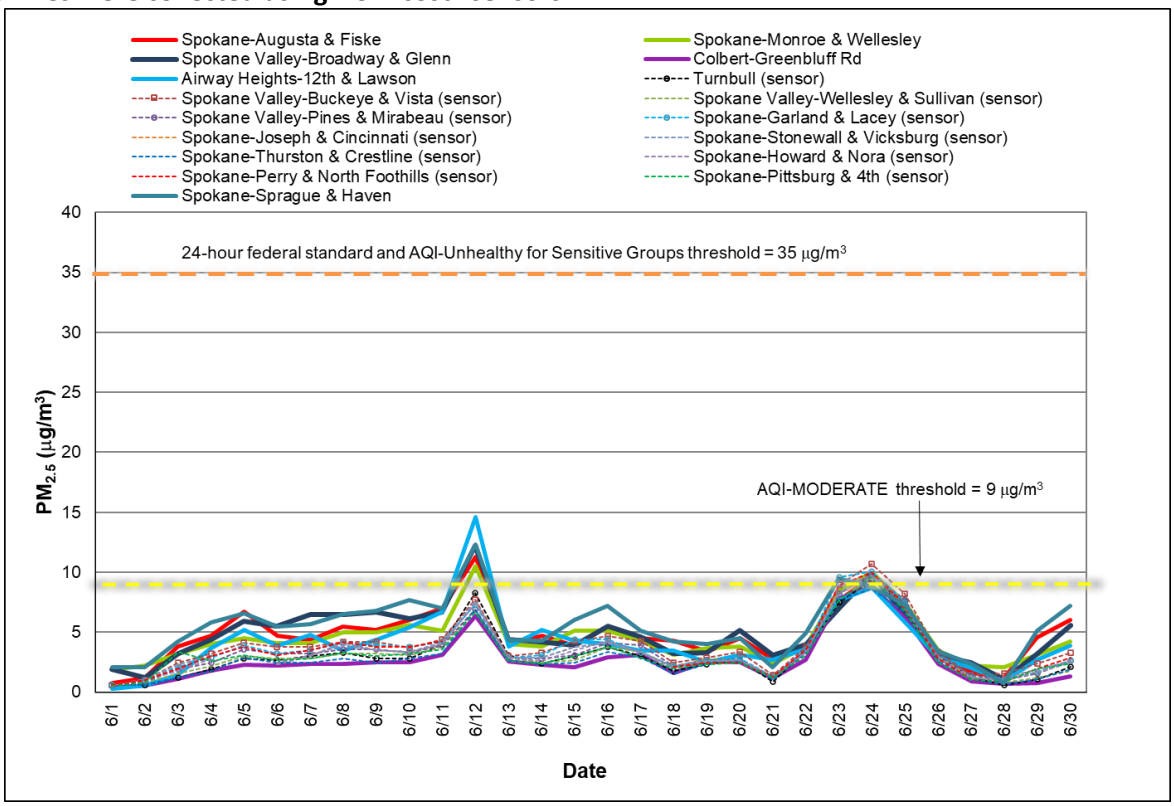

Figure 4: Daily 24-hour average PM_{10}, all Spokane County monitoring stations, June 2025. Spokane Valley – Broadway & Glenn is used to determine compliance with the NAAQS.

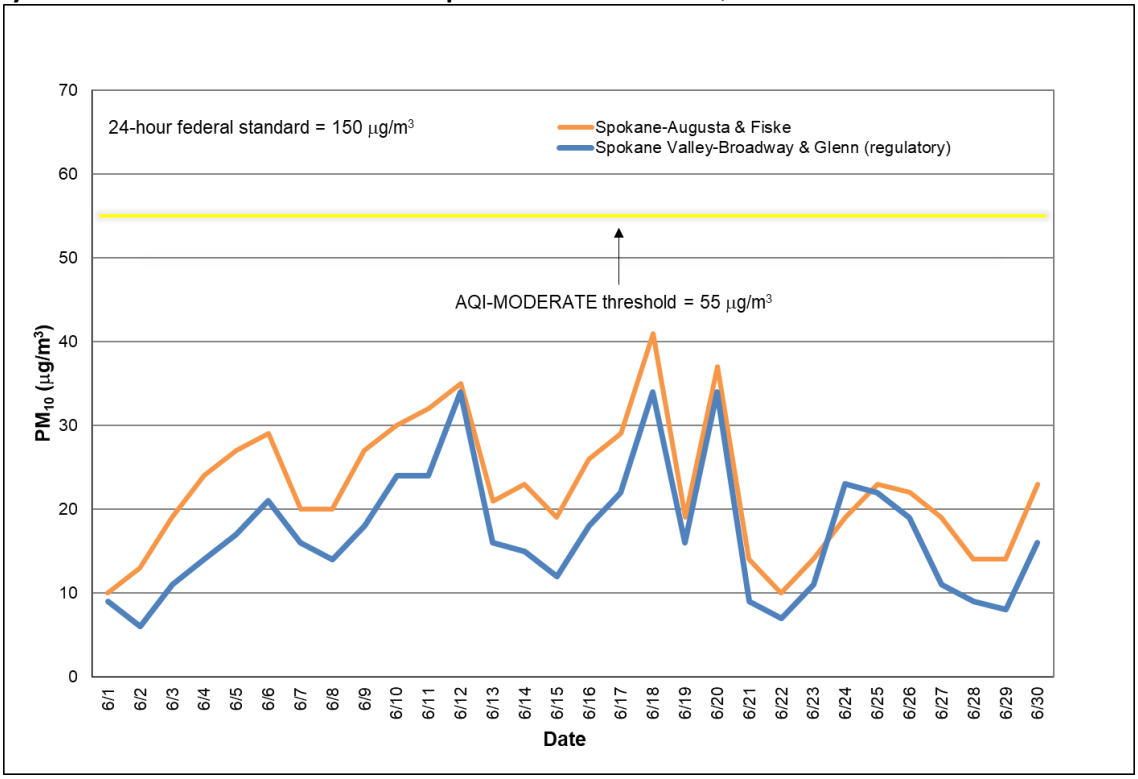

Table 1: AQI summary, June 2025. "Low-cost" sensor data are not represented in Table1, 2, or 3.

Category	Number of days in June	Number of days this year
Good (0-50)	23	120
Moderate (51-100)	7	61
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	62 (concentration = 0.058 ppm)	Moderate	Spokane-Greenbluff	6/11
PM_{10}	38 (concentration = 43 µg/m^3)	Good	Spokane – Augusta & Fiske	6/18
$PM_{2.5}$	57 (concentration = 12.3 µg/m^3)	Moderate	Spokane – Sprague & Haven	6/12

Table 3: Maximum AQI values and pollutant concentrations for 2025.

Pollutant	AQI		Location	Date
Ozone	74 (concentration = 0.062	Moderate	Spokane-Greenbluff	5/30
PM_{10}	51 (mass conc. = 55 µg/m^3)	Moderate	Spokane – Augusta & Fiske	1/28
$PM_{2.5}$	74 (conc. = 21.6 µg/m^3)	Moderate	Spokane – Augusta & Fiske	1/30

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_2), particulate matter (PM_{10} and $PM_{2.5}$), ground-level ozone (O_3) and sulfur dioxide (SO_2; 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/m³ (1)	Not to be exceeded
Nitrogen Dioxide (NO_2)		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 (O_3)		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/m³	annual mean, averaged over 3 years
		secondary	1 year	15.0 µg/m³	annual mean, averaged over 3 years
		primary and secondary	24 hours	35 µg/m³	98th percentile, averaged over 3 years
	PM_{10}	primary and secondary	24 hours	150 µg/m³	Not to be exceeded more than once per year on average over 3 years
Sulfur Dioxide (SO_2)		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 NO_2 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_3 standards additionally remain in effect in some areas. Revocation of the previous (2008) O_3 standards and transitioning to the current (2015) standards will be addressed in the implementation rule for the current standards. **(4)** The previous SO_2 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_2 standards or is not meeting the requirements of a SIP call under the previous SO_2 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	$PM_{2.5}$ (⍰g/m³) 24-hour	PM_{10} (⍰g/m³) 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): June summary air quality data for air monitoring stations in Spokane County. Ozone is reported as a daily maximum 8-hour running average in parts per million (ppm). Particulate matter mass concentration is reported as 24-hour average in micrograms per cubic meter of air (μg/m^3).

Pollutant Concentration																						
	Ozone 8-Hour Max		$PM_{2.5}$ (mg/m^3) 24-Hour Avg																		PM_{10} (mg/m^3) 24-Hour Avg	
Date	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, Pittsburg & 4th (sensor)	$PM_{2.5}$ - Spokane, Stonewall & Vicksburg (sensor)	$PM_{2.5}$ - Spokane, Thurston & Crestline (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
6/1	0.043	0.044	0.3	0.4	0.8	1.9	2.1	1.9	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.6	10	9
6/2	0.039	0.039	0.6	0.6	1.2	2.2	2.1	1.2	1.0	1.1	1.0	1.0	0.8	0.8	0.6	1.0	0.9	0.8	0.6	1.0	13	6
6/3	0.044	0.045	1.5	1.1	3.8	3.2	4.2	3.2	2.1	1.8	2.3	2.0	3.4	1.8	1.2	2.5	1.9	1.6	1.2	2.2	19	11
6/4	0.045	0.050	3.7	1.8	4.7	4.0	5.8	4.4	2.9	2.8	3.0	3.0	2.6	2.3	1.8	3.2	2.5	2.2	1.9	3.5	24	14
6/5	0.052	0.049	5.2	2.3	6.7	4.5	6.6	5.9	3.9			3.8	3.1	3.2	2.9	4.1	3.6	3.0	2.8		27	17
6/6	0.048	0.047	3.9	2.2	4.7	4.1	5.5	5.5	3.2	2.5	2.3	3.1	2.7	2.8	2.5	3.8	3.2	2.8	2.7		29	21
6/7	0.042	0.042	4.8	2.4	4.4	4.1	5.7	6.5	3.5	3.1	3.0	3.5	2.8	3.2	2.5	3.8	3.2	2.8	3.0		20	16
6/8	0.050	0.051	3.5	2.4	5.5	5.0	6.5	6.5	4.1	3.9	4.1	4.2	3.3	3.8	2.8	4.2	3.6	3.2	3.3		20	14
6/9	0.045	0.051	4.4	2.5	5.2	5.0	6.8	6.7	3.9	3.5	3.5	3.8	3.0	3.6	2.5	4.2	3.6	3.2	2.8		27	18
6/10	0.051	0.054	5.4	2.5	6.0	5.6	7.7	6.1	3.8	3.4	3.4	3.8	3.2	3.1	2.8	3.7	3.3	3.1	2.8	5.5	30	24
6/11	0.056	0.058	6.7	3.1	7.0	5.1	7.0	6.7	4.2	4.0	4.1	4.3	3.6	4.0	3.2	4.4	3.9	3.8	4.0	5.2	32	24
6/12	0.050	0.051	14.6	6.4	11.3	10.5	12.3	12.2	7.3	7.4	7.6		6.7	7.6	6.9	7.7	6.9	6.9	8.3	12.4	35	34
6/13	0.043	0.045	3.8	2.6	4.0	4.0	4.4	4.4	2.9	2.9	2.9		2.6	2.7	2.7	3.0	2.9	2.9	3.1	4.8	21	16
6/14	0.039	0.043	5.2	2.3	4.7	3.8	4.3	4.2	3.1	2.6	2.9		2.4	2.9	2.3	3.3	2.8	2.5	2.4	4.0	23	15
6/15	0.053	0.056	4.3	2.1	3.9	5.1	6.0	3.9	4.4	3.5	3.8		3.0	3.6	2.5	4.3	3.1	2.7	3.0	3.4	19	12
6/16	0.056	0.057	4.0	2.9	5.5	5.1	7.2	5.5	4.4	4.3	4.1	4.6	3.8	3.8	3.4	4.7	4.1	3.8	3.8	4.0	26	18
6/17	0.051	0.056	3.5	3.1	4.5	4.3	5.1	4.6	3.3	3.3	3.4		2.9	3.3	2.9	4.3	3.9	3.4	3.0	4.7	29	22
6/18	0.044	0.047	3.5	1.6	4.3	3.1	4.2	3.2	2.2	2.0	2.1	2.1	2.0	2.1	1.6	2.5	2.2	2.1	1.8	3.9	41	34
6/19	0.046	0.055	2.5	2.6	3.4	3.7	4.0	3.3	2.6	2.5	2.6	2.5	2.3	2.6	2.3	2.9	2.7	2.8	2.3	4.3	19	16
6/20	0.040	0.042	3.1	2.5	4.5	3.8	4.5	5.2	2.8	2.7	2.7	2.5	2.5	2.7	2.6	3.4	2.8	2.7	2.7	4.4	37	34
6/21	0.032	0.031	2.7	1.2	2.8	2.4	2.1	3.1	1.3	1.3	1.2	1.3	1.2	1.2	1.1	1.4	1.3	1.3	0.9	2.4	14	9
6/22	0.038	0.036	3.6	2.7	3.7	3.8	4.9	4.0	3.6	3.4	3.4	3.6	3.1	3.4	3.3	3.8	3.5	3.4	3.5	3.2	10	7
6/23	0.038	0.041	7.7	7.8	7.6	8.5	9.5	7.0	9.6	8.8	8.3	8.9	7.7	9.0	7.7	9.0	8.2	8.4	7.5	8.1	14	11
6/24	0.044	0.049	8.7	8.8	9.7	10.0	8.8	9.9	10.1	9.7	9.6	10.0	9.6	9.7	8.6	10.7	9.9	9.8	9.3	8.6	19	23
6/25	0.051	0.053	5.8	6.2	7.0	7.4	7.3	6.5	7.5	7.4	7.1	7.3	6.8	7.0	6.7	8.2	7.7	7.6	7.6	6.2	23	22
6/26	0.046	0.049	2.9	2.4	2.9	3.5	3.4	3.1	2.8	2.9	2.9	2.8	2.5	2.7	2.6	3.4	3.1	3.0	3.0	2.4	22	19
6/27	0.038	0.040	2.0	0.9	1.7	2.2	2.4	2.5	1.2	1.1	1.2	1.1	1.1	1.0	1.1	1.4	1.4	1.3	1.2	1.5	19	11
6/28	0.036	0.039	0.9	0.7	1.2	2.1	0.8	1.1	1.0	1.2	1.0	0.9	0.9	0.8	0.7	1.6	1.0	0.8	0.6	1.1	14	9
6/29	0.046	0.043	2.7	0.8	4.6	3.1	5.1	3.2	1.7	1.9	1.7	2.0	2.0	1.4	1.1	2.4	1.6	1.2	1.1	2.2	14	8
6/30	0.056	0.053	3.9	1.3	6.0	4.2	7.2	5.6	2.7	2.6	2.5	2.9	2.4	2.0	1.9	3.3	2.6	1.8	2.1	4.4	23	16
AVG	0.045	0.047	4.2	2.7	4.8	4.5	5.5	4.9	3.6	3.4	3.4	3.4	3.2	3.3	2.8	3.9	3.4	3.2	3.1	4.2	22	17
MAX	0.056	0.058	14.6	8.8	11.3	10.5	12.3	12.2	10.1	9.7	9.6	10.0	9.6	9.7	8.6	10.7	9.9	9.8	9.3	12.4	41	34

<u>Table A-3(2)</u>: June 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)

	Ozone		$PM_{2.5}$																PM_{10}		
Date	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, 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	MAXIMUM
6/1	40	41	2	2	4	11	12	11	3	3	3	3	3	3	3	3	3	3	9	8	41
6/2	36	36	3	3	7	12	12	7	6	6	6	4	4	3	6	5	4	3	6	12	6	36
6/3	41	42	8	6	21	18	23	18	10	13	11	19	10	7	14	11	9	7	12	18	10	42
6/4	42	46	21	10	26	22	32	24	16	17	17	14	13	10	18	14	12	11	19	22	13	46
6/5	48	45	29	13	37	25	37	33			21	17	18	16	23	20	17	16		25	16	48
6/6	44	44	22	12	26	23	31	31	14	13	17	15	16	14	21	18	16	15		27	19	44
6/7	39	39	27	13	24	23	32	36	17	17	19	16	18	14	21	18	16	17		19	15	39
6/8	47	47	19	13	31	28	36	36	22	23	23	18	21	16	23	20	18	18		19	13	47
6/9	41	47	24	14	29	28	38	37	19	19	21	17	20	14	23	20	18	16		25	17	47
6/10	47	50	30	14	33	31	43	34	19	19	21	18	17	16	21	18	17	16	31	28	22	50
6/11	56	62	37	17	39	28	39	37	22	23	24	20	22	18	24	22	21	22	29	30	22	62
6/12	46	47	61	36	55	54	57	57	41	42		37	42	38	43	38	38	46	57	32	31	61
6/13	40	42	21	14	22	22	24	24	16	16		14	15	15	17	16	16	17	27	19	15	42
6/14	36	40	29	13	26	21	24	23	14	16		13	16	13	18	16	14	13	22	21	14	40
6/15	49	53	24	12	22	28	33	22	19	21		17	20	14	24	17	15	17	19	18	11	53
6/16	54	57	22	16	31	28	40	31	24	23	26	21	21	19	26	23	21	21	22	24	17	57
6/17	47	53	19	17	25	24	28	26	18	19		16	18	16	24	22	19	17	26	27	20	53
6/18	41	43	19	9	24	17	23	18	11	12	12	11	12	9	14	12	12	10	22	38	31	43
6/19	43	51	14	14	19	21	22	18	14	14	14	13	14	13	16	15	16	13	24	18	15	51
6/20	37	39	17	14	25	21	25	29	15	15	14	14	15	14	19	16	15	15	24	34	31	39
6/21	29	29	15	7	16	13	12	17	7	7	7	7	7	6	8	7	7	5	13	13	8	29
6/22	35	34	20	15	21	21	27	22	19	19	20	17	19	18	21	19	19	19	18	9	6	35
6/23	35	38	43	43	42	47	52	39	49	46	49	43	50	43	50	46	47	42	45	13	10	52
6/24	41	45	48	49	52	53	49	52	52	52	53	52	52	48	54	52	52	51	48	18	21	54
6/25	47	49	32	34	39	41	41	36	41	39	41	38	39	37	46	43	42	42	34	21	20	49
6/26	43	45	16	13	16	19	19	17	16	16	16	14	15	14	19	17	17	17	13	20	18	45
6/27	35	37	11	5	9	12	13	14	6	7	6	6	6	6	8	8	7	7	8	18	10	37
6/28	33	36	5	4	7	12	4	6	7	6	5	5	4	4	9	6	4	3	6	13	8	36
6/29	43	40	15	4	26	17	28	18	11	9	11	11	8	6	13	9	7	6	12	13	7	43
6/30	53	49	22	7	33	23	40	31	14	14	16	13	11	11	18	14	10	12	24	21	15	53
AVG	53	49	23	15	26	25	30	27	19	19	19	17	18	16	21	19	18	17	23	21	16	46
MAX	56	62	61	49	55	54	57	57	52	52	53	52	52	48	54	52	52	51	57	38	31	62