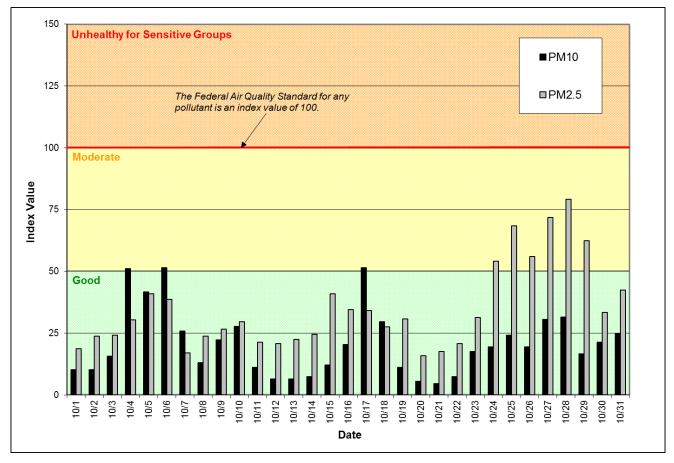
Spokane Regional Clean Air Agency Air Quality Report - October 2017

The Air Quality Index (AQI) was in the Moderate category on nine days in October, six days for Fine Particulate Matter ($PM_{2.5}$) and three days for Particulate Matter (PM_{10} ; Figure 1). The AQI was in the Good category on the other 22 days in the month. The highest AQI for the month was 79, based on a $PM_{2.5}$ mass concentration of 25.5 μ g/m³ measured at the Spokane-Augusta (Augusta & Fiske) monitoring station on the 28th. The AQI for PM2.5 was in the Moderate category on the 24th through the 29th because of temperature inversions and poor ventilation associated with a high pressure ridge over the region. The highest AQI value for PM_{10} was 52 (57 μ g/m³), measured at the Spokane-Augusta and Cheney-Turnbull air monitoring stations on the 6th and the Augusta station on the 17th. Strong winds were the cause in each case.

<u>Figure 1</u>: Air Quality Index (AQI) values for October 2017. The data represent the maximum AQI values across all monitoring stations within Spokane County.



See Appendix 1 of this report for information about federal air quality standards or Appendix 2 for a description of the AQI. Daily mass concentrations of $PM_{2.5}$ monitored in October throughout the network are shown in Figure 2.

The October daily air quality data for all monitoring stations in the Spokane region are provided in Appendix 3. Current and historical air quality data can be obtained electronically from Ecology's air monitoring data website, <u>https://fortress.wa.gov/ecy/enviwa/Default.htm</u>.

Tables 1 and 2 contain the maximum AQI values for each pollutant for the month and for the year to date. Table 3 summarizes the year to date daily AQIs by category.

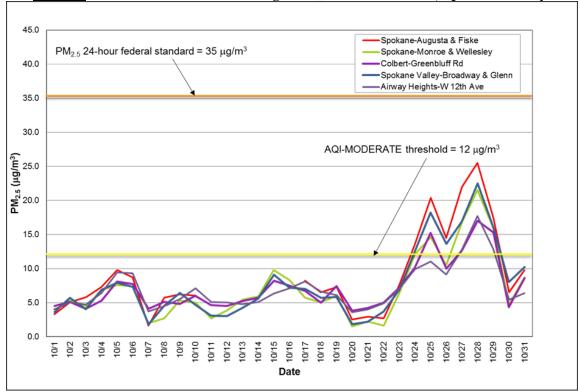


Figure 2: Multi-station 24-hour average PM_{2.5} for October 2017; Spokane County.

Table 1: Maximum AQI values and pollutant concentrations for this reporting period.

Pollutant	AQI/Concentration	Location	Date			
O ₃	Ozone is monitored May through September.					
PM ₁₀	52/57 μg/m ³	Spokane, E. Augusta Ave (Augusta & Fiske)	10/6, 10/17			
		Cheney, Turnbull NWR	10/6			
PM _{2.5}	79/25.5 μg/m ³	Spokane, E. Augusta Ave (Augusta & Fiske)	10/28			

Table 2: Maximum AQI values and pollutant concentrations for calendar year 2017.

Pollutant	AQI/Concentration	Location	Date
O ₃	105/0.072 ppm (8 hour)	Spokane, Greenbluff	8/4
PM ₁₀	137/227 μg/m ³	Spokane, E. Augusta Ave (Augusta & Fiske)	9/7
PM _{2.5}	256/205.5 μg/m ³	Spokane Valley, E. Broadway Ave (near Broadway and	9/7
	-	University)	

Table 3: AQI summary as of October 31, 2017.

Category	Number of Days This Year		
Good (0-50)	198		
Moderate (51-100)	88		
Unhealthy for Sensitive Groups (101-150)	11		
Unhealthy (151-200)	4		
Very Unhealthy (201-300)	3		
Hazardous (>300)	0		

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).

Pollutan [links to historical tab reviews]	les of NAAQS	Primary/ Secondary	Averaging Time	Level	Form	
Carbon Monoxide (CO)		primary	8 hours	9 ppm	Not to be exceeded more than once per	
		printary	1 hour	35 ppm	year	
Lead (Pb)		primary and secondary	Rolling 3 month period	0.15 μg/m ³	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	
<u>Ozone (O₃)</u>		primary and secondary	8 hours	0.070 ppm	Annual fourth-highest daily maximum 8- hour concentration, averaged over 3 years	
	PM _{2.5}	primary	1 year	12.0 µg/m ³	annual mean, averaged over 3 years	
		secondary	1 year	15.0 μg/m ³	annual mean, averaged over 3 years	
Particle Pollution (PM)		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 (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 μ g/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) 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 SO₂ standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2) 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" (orange, 101-150), "unhealthy" (red, 151-200), "very unhealthy" (purple, 201-300) and "hazardous" (maroon, 301-500; Table A-2).

Air Quality Index	Color Code	Index		Break	Health Effects		
Levels of Health Concern		Numerical Value	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	0.0-12.0	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	12.1-35.4	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	55.5-150.4	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	150.5-250.4	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)	250.5+	425+	30.5+	Health warnings of emergency conditions. The entire population is more likely to be affected.

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

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

Appendix 3

Table A-3: Summary air quality data for October for air monitoring stations in Spokane County. Particulate matter mass

concentration is reported as 24-hour averages in micrograms per cubic meter of air ($\mu g/m^3$). The BAM 1020 (PM_{2.5}) at Spokane – Augusta & Fiske was down from the 10th through the 16th for its annual maintenance and calibration.

Image: Second state Image: Second state <thimage: second="" state<="" th=""> Image: Second state</thimage:>								
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10/19 7.3 5.8 6.1 7.4 6.0 12 8 10/20 2.5 1.8 3.6 3.8 1.5 6 6 10/21 2.9 2.2 4.0 4.2 2.2 5 4 10/22 2.7 3.7 4.9 5.0 1.6 8 7 10/23 7.5 6.9 7.0 7.2 6.3 19 7 10/24 13.6 12.5 9.9 10.1 12.1 21 14 10/25 20.4 18.2 11.0 15.2 14.6 26 13 10/26 14.5 13.6 9.1 10.0 10.5 21 14 10/27 22.0 16.9 12.8 12.6 16.8 33 16 10/28 25.5 22.5 17.7 17.0 21.5 34 17 10/29 17.5 16.0 12.9 15.3 16.0 18 <td>10/15</td> <td></td> <td>9.1</td> <td>0.3</td> <td>0.2</td> <td>9.0</td> <td>22</td> <td>4</td>	10/15		9.1	0.3	0.2	9.0	22	4
10/19 7.3 5.8 6.1 7.4 6.0 12 8 10/20 2.5 1.8 3.6 3.8 1.5 6 6 10/21 2.9 2.2 4.0 4.2 2.2 5 4 10/22 2.7 3.7 4.9 5.0 1.6 8 7 10/23 7.5 6.9 7.0 7.2 6.3 19 7 10/24 13.6 12.5 9.9 10.1 12.1 21 14 10/25 20.4 18.2 11.0 15.2 14.6 26 13 10/26 14.5 13.6 9.1 10.0 10.5 21 14 10/27 22.0 16.9 12.8 12.6 16.8 33 16 10/28 25.5 22.5 17.7 17.0 21.5 34 17 10/29 17.5 16.0 12.9 15.3 16.0 18 <td>10/17</td> <td>8.2</td> <td>7.2</td> <td>8.1</td> <td>6.7</td> <td>5.7</td> <td>57</td> <td>56</td>	10/17	8.2	7.2	8.1	6.7	5.7	57	56
10/19 7.3 5.8 6.1 7.4 6.0 12 8 10/20 2.5 1.8 3.6 3.8 1.5 6 6 10/21 2.9 2.2 4.0 4.2 2.2 5 4 10/22 2.7 3.7 4.9 5.0 1.6 8 7 10/23 7.5 6.9 7.0 7.2 6.3 19 7 10/24 13.6 12.5 9.9 10.1 12.1 21 14 10/25 20.4 18.2 11.0 15.2 14.6 26 13 10/26 14.5 13.6 9.1 10.0 10.5 21 14 10/27 22.0 16.9 12.8 12.6 16.8 33 16 10/28 25.5 22.5 17.7 17.0 21.5 34 17 10/29 17.5 16.0 12.9 15.3 16.0 18 <td>10/18</td> <td>6.5</td> <td>5.7</td> <td>6.6</td> <td>5.0</td> <td>5.0</td> <td>32</td> <td>19</td>	10/18	6.5	5.7	6.6	5.0	5.0	32	19
10/20 2.5 1.8 3.6 3.8 1.5 6 6 10/21 2.9 2.2 4.0 4.2 2.2 5 4 10/22 2.7 3.7 4.9 5.0 1.6 8 7 10/23 7.5 6.9 7.0 7.2 6.3 19 7 10/24 13.6 12.5 9.9 10.1 12.1 21 14 10/25 20.4 18.2 11.0 15.2 14.6 26 13 10/26 14.5 13.6 9.1 10.0 10.5 21 14 10/27 22.0 16.9 12.8 12.6 16.8 33 16 10/28 25.5 22.5 17.7 17.0 21.5 34 17 10/29 17.5 16.0 12.9 15.3 16.0 18 17 10/30 6.5 8.0 5.4 4.3 4.8 23 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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10/31 9.8 10.2 6.4 8.6 8.7 27 14 AVG 9.1 7.6 7.0 7.2 7.1 21 17	10/29	17.5	16.0	12.9	15.3	16.0	18	
AVG 9.1 7.6 7.0 7.2 7.1 21 17		6.5						
	10/31	9.8	10.2	6.4	8.6	8.7	27	14
	AVG	9.1	7.6	7.0	7.2	7.1	21	17
MAA 23.3 22.3 11.1 11.0 21.3 31 31	MAX	25.5	22.5	17.7	17.0	21.5	57	57