

Spokane County Air Quality: Highest daily PM2.5 (particles 2.5 microns in diameter and smaller) over "moderate" AQI category, reported in concentration and related AQI value since 1999 and using AQI breakpoints in effect on the sampling dates. 1999 is when Spokane Clean Air began monitoring for PM2.5, shortly after the health-based standard was established by EPA. The PM2.5 health-based standard is 35 micrograms per cubic meter of air (equivalent to 100 on the AQI) averaged over 24 hours, midnight to midnight. Prior to 1999, monitoring was done for smoke and dust particles combined (PM10- Particulate Matter 10 microns in diameter and smaller). Particulate matter (PM) has been measured by Spokane Clean Air since health-based air quality standards were established in 1971. The first standard was for Total Suspended Particulates, then revised in 1987 to Particulate Matter 10 microns and smaller (PM10). In 1997, EPA established an additional standard for Fine Particles (PM2.5).

Year	Date	Max Daily PM2.5 AQI >100	Max 24-hr avg PM2.5 concentration ( $\mu\text{g}/\text{m}^3$ )	Cause
2018	24-Aug	114	40.8	wildfire smoke
2018	23-Aug	154	61.7	wildfire smoke
2018	22-Aug	134	48.8	wildfire smoke
2018	21-Aug	139	51	wildfire smoke
2018	20-Aug	200	150.3	wildfire smoke
2018	19-Aug	257	206.7	wildfire smoke
2018	16-Aug	147	54	wildfire smoke
2018	15-Aug	155	62.7	wildfire smoke
2018	14-Aug	158	69	wildfire smoke
2018	13-Aug	165	84.8	wildfire smoke
2018	10-Aug	110	39.3	wildfire smoke
2018	9-Aug	106	37.5	wildfire smoke
2018	8-Aug	131	47.5	wildfire smoke
2017	14-Sep	131	47.5	wildfire smoke
2017	8-Sep	179	110.6	wildfire smoke
2017	7-Sep	256	205.5	wildfire smoke
2017	6-Sep	245	195.4	wildfire smoke
2017	5-Sep	254	203.5	wildfire smoke
2017	4-Sep	199	148.6	wildfire smoke
2017	30-Aug	120	43.1	wildfire smoke
2017	12-Aug	109	38.8	wildfire smoke
2017	11-Aug	151	55.5	wildfire smoke
2017	10-Aug	148	54.4	wildfire smoke
2017	9-Aug	149	54.9	wildfire smoke
2017	8-Aug	116	41.4	wildfire smoke
2017	7-Aug	121	43.8	wildfire smoke
2017	6-Aug	119	42.9	wildfire smoke
2017	5-Aug	136	49.8	wildfire smoke
2017	4-Aug	154	62.0	wildfire smoke
2017	16-Jan	117	42.1	air stagnation/wood smoke
2017	14-Jan	106	37.5	air stagnation/wood smoke
2016	None	NA	NA	NA
2015	23-Nov	104	36.8	air stagnation/wood smoke
2015	22-Nov	137	50.0	air stagnation/wood smoke
2015	21-Nov	104	36.6	air stagnation/wood smoke
2015	29-Aug	123	44.6	wildfire smoke, blowing dust
2015	27-Aug	156	64.7	wildfire smoke
2015	26-Aug	156	65.3	wildfire smoke
2015	25-Aug	115	41.2	wildfire smoke
2015	24-Aug	167	86.7	wildfire smoke
2015	23-Aug	164	81.0	wildfire smoke
2015	21-Aug	171	94.2	wildfire smoke
2015	19-Aug	102	36.0	wildfire smoke
2015	18-Aug	126	45.6	wildfire smoke
2015	17-Aug	122	44.0	wildfire smoke
2015	14-Aug	113	40.3	wildfire smoke, blowing dust
2015	3-Aug	116	41.5	wildfire smoke
2015	2-Aug	131	47.5	wildfire smoke
2014	19-Nov	105	37.0	air stagnation/wood smoke
2014	18-Jul	105	37.3	wildfire smoke
2013	24-Nov	108	38.4	air stagnation/wood smoke
2013	18-Jan	103	36.6	air stagnation/wood smoke
2012	20-Sep	107	39.2	wildfire smoke
2012	15-Sep	109	40.3	wildfire smoke
2012	4-Jul	147	63.7	fireworks
2011	None	NA	NA	NA
2010	31-Dec	102	36.3	air stagnation/wood smoke
2009	11-Dec	107	39.5	air stagnation/wood smoke
2009	4-Jul	113	43.0	fireworks
2008	None	NA	NA	NA
2007	None	NA	NA	NA
2006	None	NA	NA	NA
2005	None	NA	NA	NA
2004	None	NA	NA	NA
2003	6-Nov	103	42.0	air stagnation/wood smoke
2003	5-Nov	103	41.8	air stagnation/wood smoke
2002	29-Nov	104	42.7	air stagnation/wood smoke
2002	28-Nov	105	43.1	air stagnation/wood smoke
2002	27-Nov	123	51.9	air stagnation/wood smoke
2002	26-Nov	108	44.5	air stagnation/wood smoke
2002	4-Nov	104	42.3	air stagnation/wood smoke
2002	3-Nov	115	47.8	air stagnation/wood smoke
2002	2-Nov	103	41.9	air stagnation/wood smoke
2001	11-Nov	105	43.0	air stagnation/wood smoke
2001	10-Nov	103	42.0	air stagnation/wood smoke
2000	4-Nov	101	41.0	air stagnation/wood smoke
2000	26-Oct	103	42.0	air stagnation/wood smoke
1999	None	NA	NA	NA