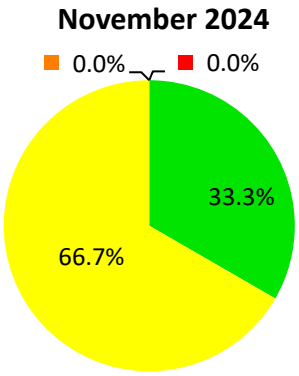
Monthly Air Quality Report
November 2024 · Birmingham, AL

SUMMARY

This report presents daily maximum Air Quality Index (AQI) values and corresponding AQI colors from five different pollutants monitored in the Birmingham area: carbon monoxide (CO), particulate matter (PM_{10} and $PM_{2.5}$), ozone (O_3), and sulfur dioxide (SO_2). The table and figure below show the number of days and percentage of days in each AQI category, respectfully, for the month.

November 2024	
AQI Category	**Number of Days**
Good	10
Moderate	20
Unhealthy for Sensitive Groups	0
Unhealthy	0



AQI CHART

AQI Levels of Health Concern	AQI Value	Actions to Take
Good	0-50	None
Moderate	51-100	Unusually sensitive people should consider limiting prolonged outdoor exertion
Unhealthy for Sensitive Groups	101-150	The following groups should limit prolonged outdoor exertion: • People with heart or lung disease • Children and older adults • People who are active outdoors
Unhealthy	151-200	The following groups should avoid prolonged outdoor exertion: • People with heart or lung disease • Children and older adults • People who are active outdoors Everyone else should limit prolonged outdoor exertion
Very Unhealthy	201-300	The following groups should avoid all outdoor exertion: • People with heart or lung disease • Children and older adults • People who are active outdoors Everyone else should limit outdoor exertion

DAILY AQI VALUES

The table below shows this month's daily maximum AQI values and corresponding AQI category for each pollutant. O_3 is not reported November through February.

Date	CO	PM_{10}	$PM_{2.5}$	SO_2
1	3	24	60	2
2	5	25	66	2
3	3	20	58	2
4	2	22	56	1
5	2	22	58	2
6	3	24	61	2
7	3	15	50	2
8	3	21	63	8
9	5	20	60	2
10	2	16	53	1
11	7	14	42	1
12	7	16	41	2
13	3	17	60	2
14	2	18	46	1
15	3	17	53	2
16	8	33	74	3
17	9	47	98	3
18	8	28	63	3
19	3	11	34	3
20	3	22	31	1
21	5	19	23	2
22	5	21	27	2
23	13	18	56	2
24	14	24	67	7
25	5	13	34	3
26	5	20	61	1
27	7	35	83	3
28	2	12	49	1
29	3	18	62	1
30	11	20	61	28

Data in this report is preliminary and has not been through quality assured and quality controlled procedures and should not be used for compliance with EPA's National Ambient Air Quality Standards (NAAQS). AQI values in this report are used for forecasting and reporting daily air quality to the public. Pollution concentration data is used for compliance with the NAAQS. Daily air quality forecasts and real-time monitoring data can be found at www.jcdh.org.

AIR QUALITY ALERTS

Air quality alerts are issued for days that are forecast to have AQI values greater than 100 for O_3 and/or $PM_{2.5}$. O_3 is forecast by the Alabama Department of Environmental Management during the warm season. $PM_{2.5}$ is forecast by the Jefferson County Department of Health year-round.

No air quality alerts were issued in November. There have been a total of 8 air quality alerts issued in 2024 through November.

METEOROLOGICAL CONDITIONS

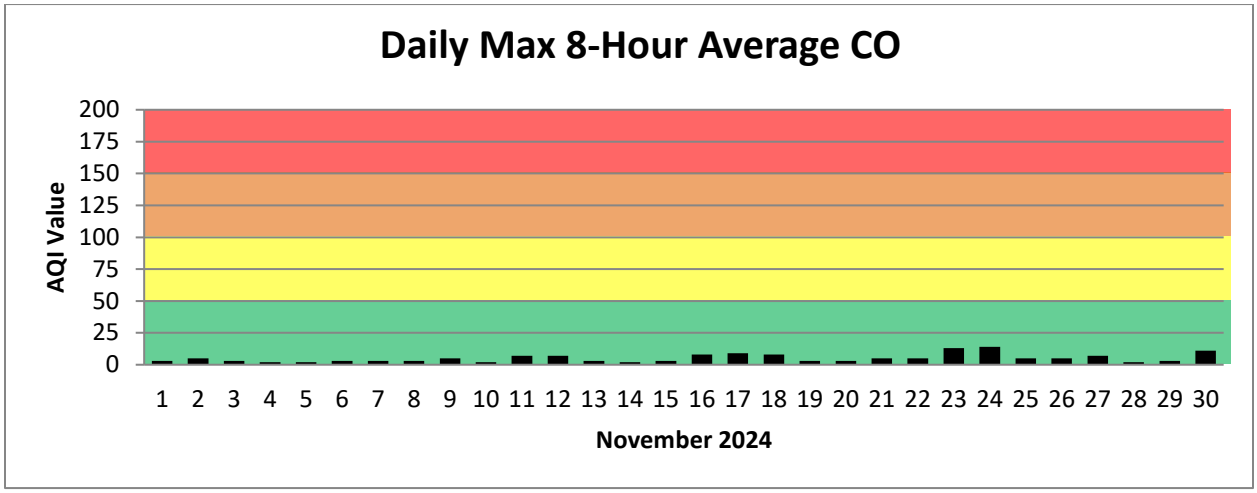
The calendar below shows all reported weather conditions within the hourly weather observations for each day of the month from the National Weather Service's station located at the Birmingham International Airport.

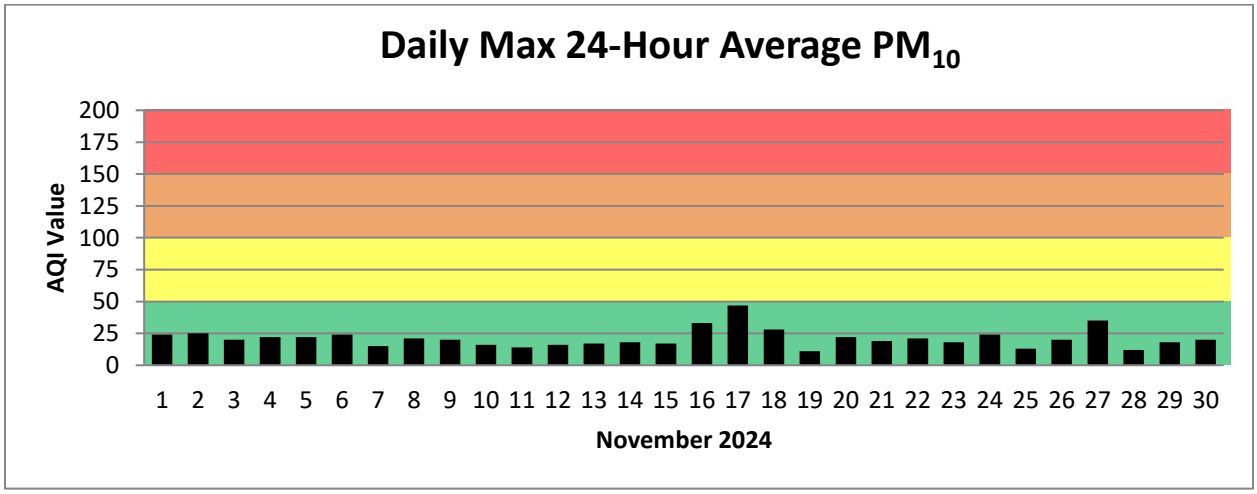
NOVEMBER 2024						
SUN	**MON**	**TUE**	**WED**	**THU**	**FRI**	**SAT**
					1 BR, RA	**2** BR, HZ
3	**4**	**5** BR, RA	**6** RA	**7**	**8** BR	**9** BR, RA
10 RA	**11** BR	**12**	**13** BR, RA, TS	**14** BR, RA	**15**	**16**
17	**18**	**19** BR, DZ, RA	**20** BR, DZ, RA	**21**	**22**	**23**
24	**25**	**26** BR, HZ, RA	**27** BR, HZ	**28** TS	**29** BR, HZ	**30**

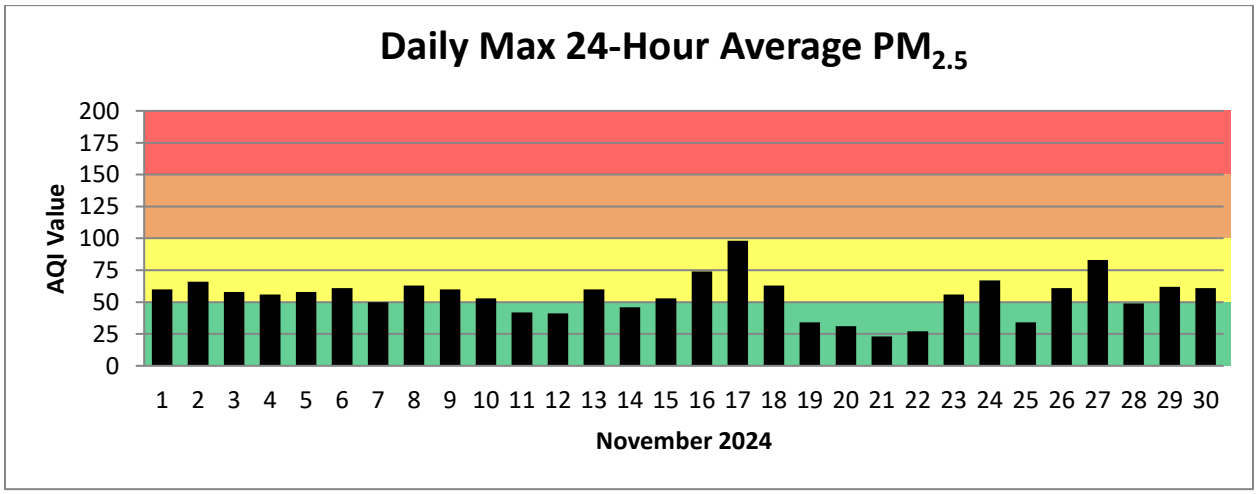
Weather phenomena and obscuration notations as used by the National Weather Service:

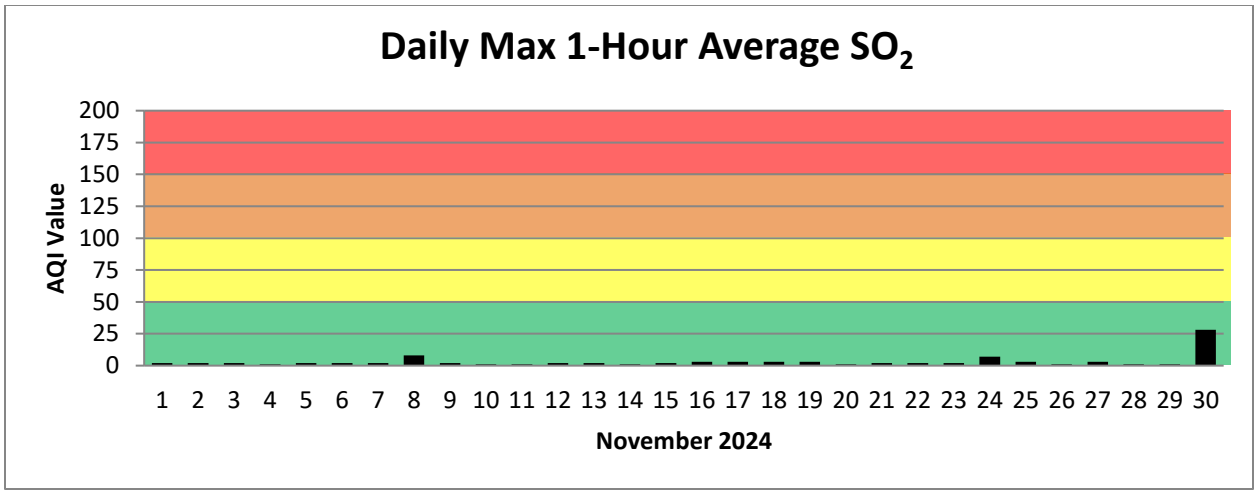
Drizzle (DZ)	Fog (FG)	Freezing Drizzle (FZDR)	Freezing Rain (FZRA)
Haze (HZ)	Hail (GR)	Ice Pellets (PL)	Mist (BR)
Rain (RA)	Smoke (FU)	Snow (SN)	Thunderstorms (TS)

GRAPHS OF DAILY AQI VALUES BY POLLUTANT








Daily Max 1-Hour Average SO_2
AQI Value
200
175
150
125
100
75
50
25
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
November 2024