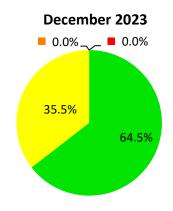
Monthly Air Quality Report December 2023 · Birmingham, AL



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 (O₃), and sulfur dioxide (SO₂). The table and figure below show the number of days and percentage of days in each AQI category, respectfully, for the month.

December 2023		
AQI Category	Number of Days	
Good	20	
Moderate	11	
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	СО	PM ₁₀	PM _{2.5}	SO ₂
1	7	31	63	6
2	6	12	32	2
3	8	18	37	2
4	9	22	41	3
5	5	19	36	3
6	5	15	35	2
7	9	31	61	5
8	8	27	61	7
9	2	16	44	2
10	2	8	22	
11	8	13	38	3
12	8	24	56	10
13	7	26	69	6
14	5	25	55	4
15	7	17	39	2
16	6	15	35	2
17	2	10	32	2
18	2	14	33	2
19	3	13	33	5
20	9	22	53	4
21	10	37	75	7
22	10	35	71	8
23	11	26	64	3
24	11	14	35	2
25	7	7	18	2
26	7	13	37	2
27	8	13	33	
28	5	11	21	2
29	5	9	29	2
30	9	10	37	2
31	11	19	59	3

All data displayed in this report is preliminary and have not been through quality assured and quality controlled procedures. The AQI is used for forecasting and reporting daily air quality and is not used for compliance purposes. For daily air quality forecasts and real-time monitoring data, go to <u>www.jcdh.org</u>.

AIR QUALITY ALERTS

Air quality alerts are issued for days that are forecast to have AQI values greater than 100 for O₃ and/or PM_{2.5}. O₃ 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 December. There has been a total of 8 air quality alerts issued in 2023 through December.

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.

	DECEMBER 2023						
	SUN	MON	TUE	WED	THU	FRI	SAT
						1 _{BR, RA}	2 _{BR}
3	BR, RA	4	5 _{BR}	6	7	8	9 BR, RA, TS
10	BR, RA	11	12	13	14	15	16
17	BR, RA	18	19	20	21	22	23
24	RA	25 _{BR, RA}	26 _{BR}	27 _{BR}	28	29 _{RA, SN}	30 _{BR}
31							

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

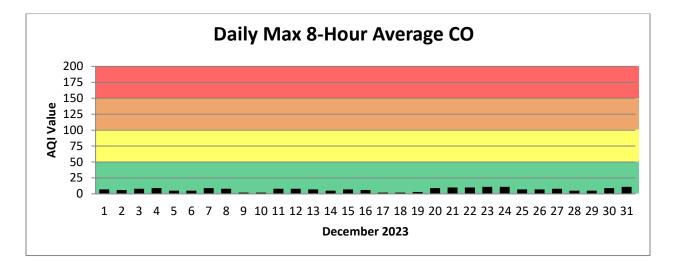
Drizzle (DZ)	Fog (FG)
Haze (HZ)	Hail (GR)
Rain (RA)	Smoke (F

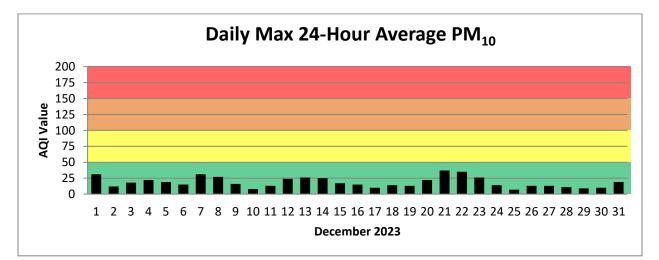
R) Ice Pellets (PL) (FU) Snow (SN)

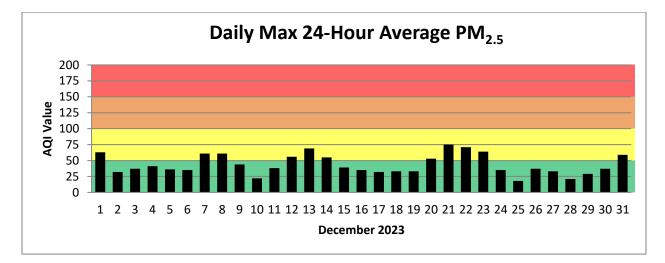
Freezing Drizzle (FZDR)

Freezing Rain (FZRA) Mist (BR) Thunderstorms (TS)

GRAPHS OF DAILY AQI VALUES BY POLLUTANT







Jefferson County Department of Health · Environmental Health Services · Air and Radiation Protection Division

