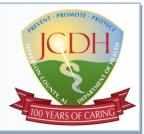
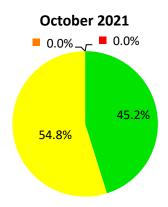
Monthly Air Quality Report October 2021 · Birmingham, AL



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.

October 2021							
AQI Category	Number of Days						
Good	14						
Moderate	17						
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.

Date	СО	O ₃	PM ₁₀	PM _{2.5}	SO ₂	
1	6	71	41	82	2	
2	6	34	26	69	1	
3	3	22	13	46	1	
4	3	31	15	33	4	
5	2	29	13	28	0	
6	2	29	14	35	1	
7	5	33	22	53	2	
8	6	42	31	66	2	
9	9	48	47	97	11	
10	10	49	37	82	2	
11	3	35	22	50	4	
12	3	36	22	51	5	
13	3	44	28	60	5 2	
14	5	46	43	74	9	
15	6	37	36	67	1	
16	2	35	15	30	1	
17	5	37	18	42	1	
18	6	41	39	67	4	
19	8	45	42	76	3	
20	6	43	41	74	3	
21	3	32	22	55	2	
22	3	34	21	48	1	
23	5	41	25	58	1	
24	5	36	26	66	2	
25	5	31	22	55	2	
26	2	33	14	33	1	
27	2	40	19	38	4	
28	2	31	19	36	1	
29	2	19	7	17	1	
30	2	16	9	25	0	
31	3	31	17	44	1	

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 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 from about mid-April through mid-October. $PM_{2.5}$ is forecast by the Jefferson County Department of Health year-round.

No air quality alerts were issued in October. There has been 1 air quality alert issued in 2021 through October.

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.

	OCTOBER 2021												
SUN		MON		TUE		WED		THU		FRI		SAT	
										1		2	BR, RA, TS
3	BR, RA, TS	4	BR, RA, TS	5	BR, RA, TS	6	BR, RA, TS	7	BR	8		9	
10	BR	11		12		13		14		15		16	BR, RA
17		18		19		20		21	BR, RA, TS	22	BR, FG	23	
24		25		26		27	RA	28	BR, DZ, RA	29	BR, DZ, RA	30	BR, DZ, RA
31	BR												

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

