

Monthly Air Quality Report

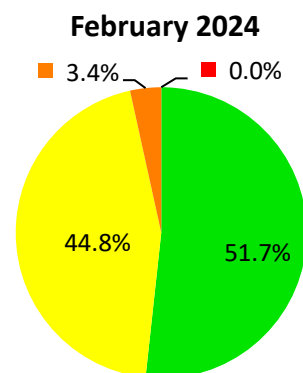
February 2024 · Birmingham, AL



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 (PM₁₀ 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.

| February 2024 | |
|--------------------------------|----------------|
| AQI Category | Number of Days |
| Good | 15 |
| Moderate | 13 |
| Unhealthy for Sensitive Groups | 1 |
| 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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. O₃ is not reported November through February.

| Date | CO | PM ₁₀ | PM _{2.5} | SO ₂ |
|------|----|------------------|-------------------|-----------------|
| 1 | 8 | 25 | 57 | 16 |
| 2 | 10 | 44 | 77 | 8 |
| 3 | 11 | 31 | 77 | 4 |
| 4 | 2 | 14 | 45 | 5 |
| 5 | 3 | 10 | 25 | 4 |
| 6 | 5 | 19 | 33 | 3 |
| 7 | 7 | 28 | 57 | 4 |
| 8 | 3 | 31 | 70 | 3 |
| 9 | 7 | 30 | 59 | 5 |
| 10 | 6 | 15 | 40 | 3 |
| 11 | 2 | 7 | 18 | 3 |
| 12 | 2 | 10 | 15 | 2 |
| 13 | 3 | 17 | 32 | 2 |
| 14 | 9 | 22 | 53 | 5 |
| 15 | 10 | 36 | 65 | 3 |
| 16 | 9 | 44 | 81 | 4 |
| 17 | 2 | 9 | 33 | 2 |
| 18 | 3 | 9 | 25 | 2 |
| 19 | 8 | 21 | 49 | 5 |
| 20 | 10 | 40 | 74 | 8 |
| 21 | 10 | 53 | 113* | 5 |
| 22 | 3 | 35 | 83 | 2 |
| 23 | 3 | 18 | 25 | 2 |
| 24 | 5 | 25 | 29 | 2 |
| 25 | 6 | 25 | 67 | 11 |
| 26 | 3 | 36 | 78 | 6 |
| 27 | 2 | 24 | 45 | 2 |
| 28 | 2 | 19 | 38 | 2 |
| 29 | 2 | 8 | 17 | 3 |

*Exceedance due to smoke from prescribed fires outside of Jefferson County

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 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 February. There have been 0 air quality alerts issued in 2024 through February.

METEOROLOGICAL CONDITIONS

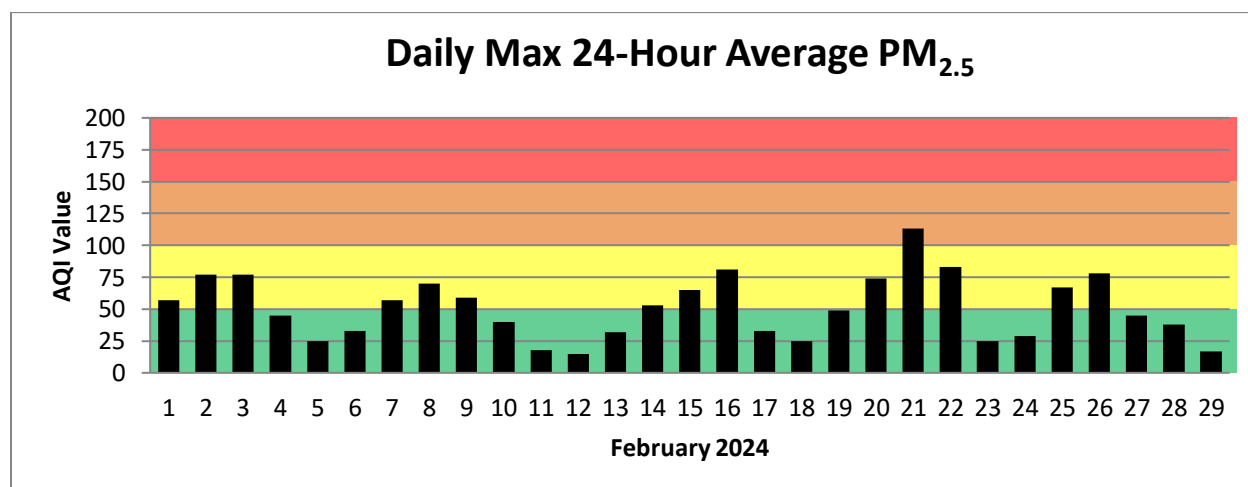
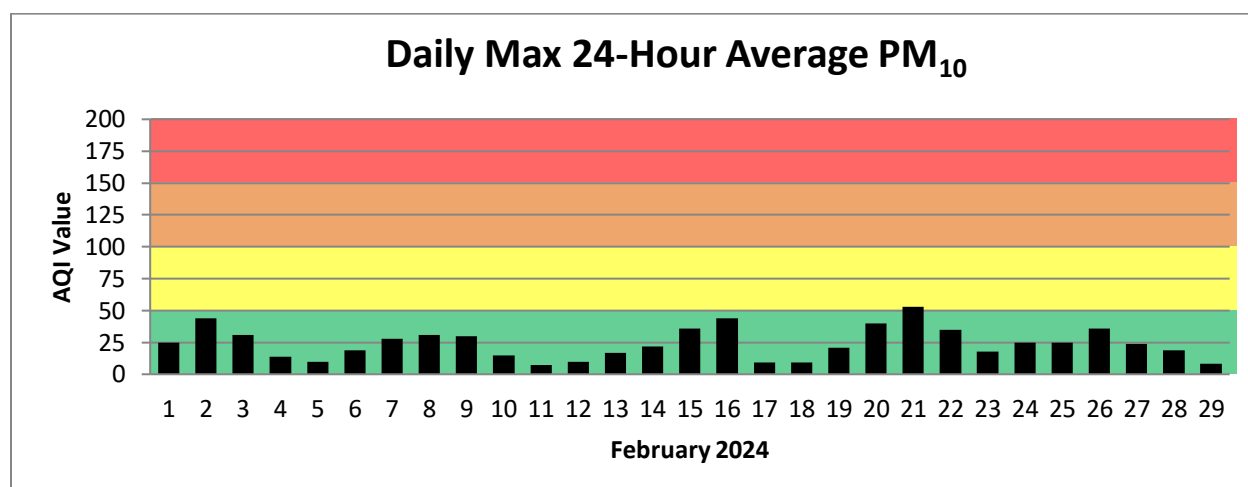
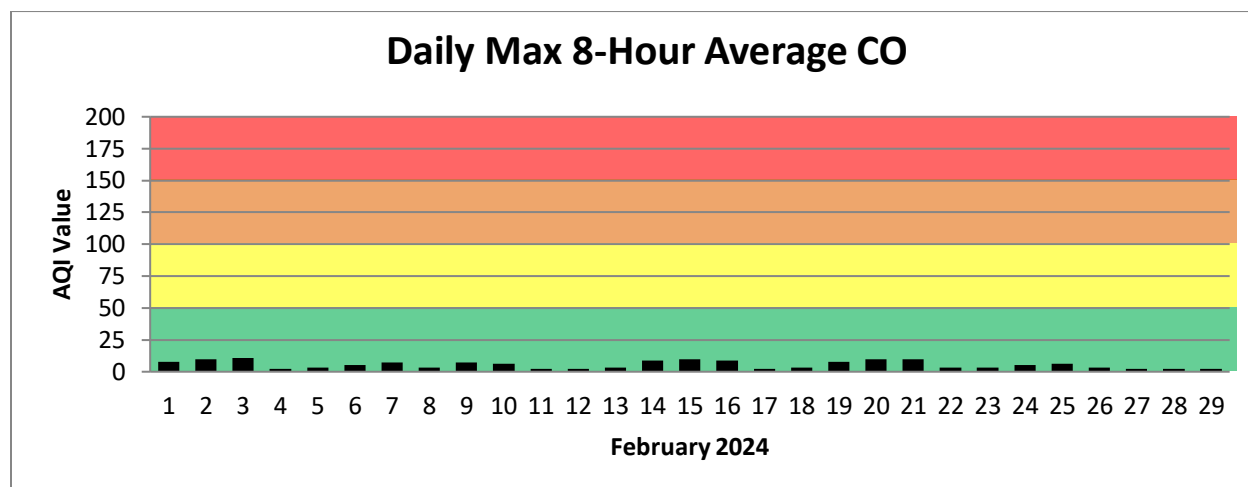
The calendar below shows all reported weather conditions within the hourly weather observations for each day of the month from the National Weather Service's station located at the Birmingham International Airport.

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

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 SO₂

