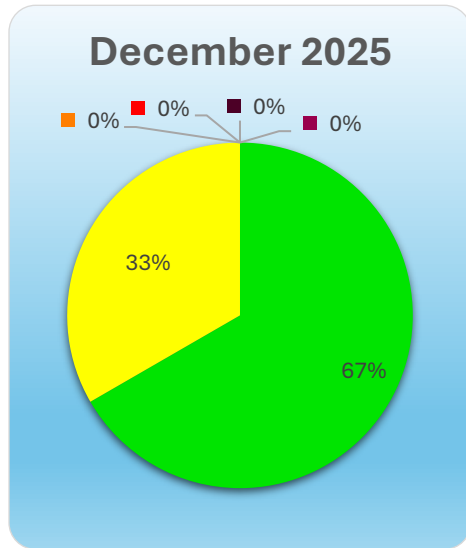




# Monthly Air Quality Report: December 2025

This report shows daily maximum Air Quality Index (AQI) values and corresponding AQI colors for six criteria pollutants monitored by the Jefferson County Department of Health: carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), ozone (O<sub>3</sub>), particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>), and sulfur dioxide (SO<sub>2</sub>). The chart below shows the percentage of days in each AQI category for the month. The table below shows the levels of the AQI and corresponding color, values, and description of air quality.

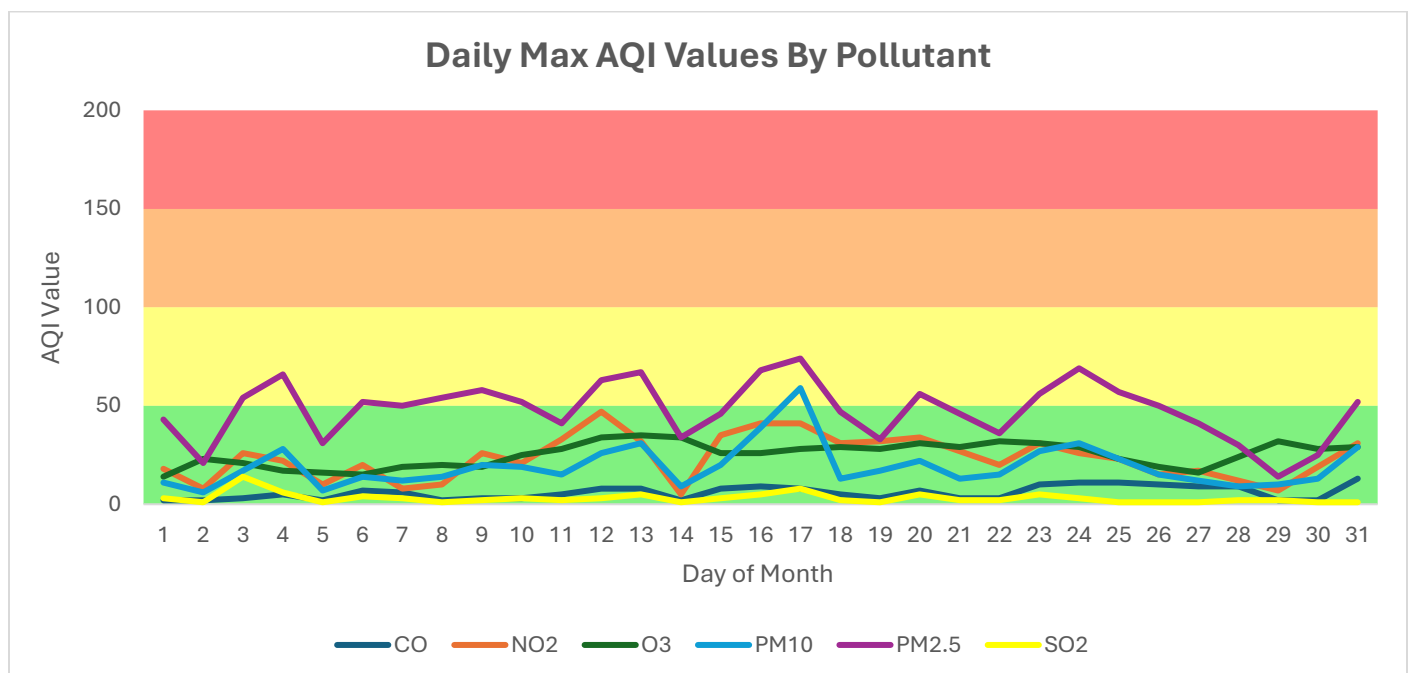


**AIR QUALITY INDEX (AQI)**

| Levels of Concern              | Values of Index | Description of Air Quality  |
|--------------------------------|-----------------|---|
| Good                           | 0-50            | Air quality is satisfactory, and air pollution poses little or no risk.   |
| Moderate                       | 51-100          | Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution. |
| Unhealthy for Sensitive Groups | 101-150         | Members of sensitive groups may experience health effects. The general public is less likely to be affected.                              |
| Unhealthy                      | 151-200         | Some members of the general public may experience health effects; members of sensitive groups may experience more serious health effects. |
| Very Unhealthy                 | 201-300         | The risk of health effects is increased for everyone.   |
| Hazardous                      | 301+            | Health warning of emergency conditions: everyone is more likely to be affected.   |



















## Daily AQI Values








The graph below shows this month's daily maximum AQI values for each criteria pollutant.



## Meteorological Conditions

Air pollution levels are affected by weather conditions. The calendar below shows all reported hourly weather conditions from the National Weather Service's weather station at the Birmingham International Airport.

| DECEMBER 2025   |  |   |  |  |  |  |
|---|--|---|--|--|--|--|
| SUN   | MON  | TUE   | WED  | THU  | FRI  | SAT  |
|   | 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  | 31   |  |  |  |

| Weather Icons   |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
|  |  |  |  |  |  |  |
| Rain/Drizzle/Mist   | Thunderstorm  | Fog   | Snow  | Freezing Rain/Drizzle  | Haze  | Smoke   |

## Air Quality Alerts

PM<sub>2.5</sub> is forecast by the Jefferson County Department of Health year-round and O<sub>3</sub> is forecast by the Alabama Department of Environmental Management from March-October. When AQI values are forecast to be greater than 100 for PM<sub>2.5</sub> and/or O<sub>3</sub>, an "Air Quality Alert" is issued. There were 0 air quality alerts issued this month and 2 issued this current year.