

Air Quality Forecast and Dispersion Outlook of Allegheny County, Pennsylvania for 08/26/2021

Air Quality Forecast: This is the daily forecasted Air Quality Index (AQI) for each area provided by the PA Department of Environmental Protection. The AQI is based on PM2.5 or Ozone, whichever is forecasted to be higher.




| Forecast Period | Pittsburgh Area | Liberty-Clairton Area |
|--------------------------------------|------------------------------------|------------------------------------|
| Today Thursday 8/26/21 | Ozone Moderate 80 AQI | PM2.5 Moderate 75 AQI |
| Tomorrow Friday 8/27/21 | Ozone Moderate 60 AQI | PM2.5 Moderate 60 AQI |

Today's Forecast: Areas of fog during the morning, otherwise mostly sunny skies Thursday with a rather warm afternoon. Ozone will move well into the moderate range, with fine particulate also remaining moderate as well. A thundershower may pop late in the afternoon in a few locations.

See Page 2 for the Air Quality Index guide

[Data provided by the PA Department of Environmental Protection](#)

ACHD Air Dispersion 36-Hour Forecast: This is the dispersion forecast for Allegheny County starting from this morning through tomorrow afternoon. The atmospheric dispersion index is a rating of the atmosphere's ability to transport pollution away from its source and is based on emissions and weather. Better atmospheric dispersion can improve air quality.

| Forecast Period | | Atmospheric Dispersion Index | Surface Inversion Strength | Wind (dir, mph) |
|-----------------|---|------------------------------|----------------------------|-----------------|
| Today |  Morning | Very Poor – 3 | None | S 1 |
| | Afternoon | Generally Poor – 19 | -- | SW 2 |
| Tonight |  Evening | Very Poor – 2 | -- | S 2 |
| | Overnight | Very Poor – 1 | -- | SE 1 |
| Tomorrow |  Morning | Poor – 12 | Weak-Moderate | SE 2 |
| | Afternoon | Fair – 21 | -- | S 3 |

See page 2 for the Atmospheric Dispersion Index guide and the daily Surface Temperature Inversion Report.

ACHD Remarks: Slight chance of rain in the evening today and a chance of rain tomorrow.

Data provided by the National Weather Service (NWS) [Fire Weather Planning Forecast](#) and [PIT NWS Products](#)

Guide to the Air Quality Index (AQI)

| Color | Description | Meaning | AQI |
|--------|--------------------------------|--|-----------|
| Red | Unhealthy | Everyone should limit exertion outdoors. | 151 - 200 |
| Orange | Unhealthy for Sensitive Groups | Sensitive people should limit exertion outdoors. | 101 - 150 |
| Yellow | Moderate | Extremely sensitive people may wish to limit outdoor exertion. | 51 - 100 |
| Green | Good | No health impacts are expected in this range. | 0 - 50 |

Guide to the Atmospheric Dispersion Index

| Very Poor | Poor | Generally Poor | Fair | Generally Good | Good | Very Good |
|-----------|--------|----------------|---------|----------------|----------|-----------|
| 1 - 6 | 7 - 12 | 13 - 20 | 21 - 40 | 41 - 60 | 61 - 100 | > 100 |

ACHD Surface Temperature Inversion Report:

This is the 7 AM surface-based temperature inversion report for Allegheny County.

This morning's surface inversion of with a depth of is estimated to break at . This surface inversion can be characterized as: **None** / Slight / Weak / Moderate / Strong.

Yes, an upper inversion starting below ~1000 m is reported.

What does the Surface Temperature Inversion Report mean?

A surface temperature inversion is a weather pattern that stops mixing of the air near the ground, and pollution released into the air tends to remain at higher concentrations.

Surface temperature inversion conditions include how strong the surface inversion is (in °C), how high the inversion is above the surface (in meters), and when the inversion is expected to break (in Eastern Standard Time). Also included is whether an upper-level inversion or inversions exist, starting at about 1,000 meters.

Surface Temperature Inversion Characterization

- 0-0.9 C°: Slight
- 1-2.9 C°: Weak
- 3-4.9 C°: Moderate
- ≥5 C°: Strong

