Air Quality Forecast and Dispersion Outlook of Allegheny County, Pennsylvania for 6/27/2022

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's Forecast: Cooler and less humid air will sweep into the region Monday behind a cold front, leading to the	
Today Monday 6/27/22	Ozone Good 44 AQI	PM2.5 Good 38 AQI	return of sunshine. A north to northwesterly flow of cleaner air means a return to good air quality.	
Tomorrow Tuesday 6/28/22	Ozone Good 46 AQI	PM2.5 Good 40 AQI		

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	Good – 83	Slight	NW 8-10
		Afternoon	Very Good – 149		NW 5-10
Terricht)	Evening	Generally Poor – 13		NW 2
Tonight		Overnight	Very Poor – 2		NNW 1-2
Tomorrow	*	Morning	Fair — 30	Slight to Weak	NNW 1 to NW 2
		Afternoon	Fair — 40		NW 2-3 to NE 1

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

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

Date: 6/27/2022

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 **0.2°C** with a depth of **62 m** is estimated to break at **Broken**. This surface

inversion can be characterized as: None/ Slight / Weak / Moderate / Strong.

No 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 $^{\circ}$ 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

