

July 17, 2024

Air Quality Forecast and Dispersion Outlook for Allegheny County, PA

Prepared by: AW

Date: 7/17/24

Time: 8:30 AM

	Pittsburgh, PA	Liberty-Clairton Area, PA
Today	PM2.5 Good 46 AQI	PM2.5 Good 50 AQI
Tomorrow	Ozone Good 47 AQI	PM2.5 Good 42 AQI

Today's Air Quality Forecast:

Unsettled weather is expected for Wednesday as a cold front approaches from the west. Showers and thunderstorms are likely with the cold front pushing through during the afternoon hours. With mostly cloudy skies, ozone formation will be limited with concentrations held to the good range. Concentrations of PM-2.5 will be highest on an hourly basis through the overnight into the morning hours on Wednesday, but with the precipitation and approaching front they will be in the good range on average for the day. Highs will be a bit cooler compared to the last few days as temperatures will only reach the low 80s.

	Atmospheric Dispersion Index		Wind (dir mph)	Surface Inversion Forecast
Today	Morning	34	SW 5-10	--
	Afternoon	43	SW/W 5-10	--
Tonight	Evening	7	NW 5-10	Weak
	Overnight	3	NW/N <5	Weak
Tomorrow	Morning	39	N <5	--
	Afternoon	73	NW 5-10	--

Morning Surface Temperature Inversion Report:

	Surface Temperature Inversion?	Temperature (°C)	Depth (m)	Est. Break Time	Characterization	Upper air Inversion Present?
Today	No	-	-	-	None	No