

May 3, 2024

Air Quality Forecast and Dispersion Outlook for Allegheny County, PA

Prepared by: KLC

Date: 5/3/24

Time: 8:30 AM

	Pittsburgh, PA	Liberty-Clairton Area, PA
Today	PM2.5 Moderate 55 AQI	PM2.5 Moderate 66 AQI
Tomorrow	Ozone Good 39 AQI	PM2.5 Good 40 AQI

Today's Air Quality Forecast:

The southerly flow will provide the region with the warmest temperatures across the state as highs will be well into the 80s even as cloud cover increases throughout the afternoon. With a mix of sun and clouds, ozone formation will be limited with peak 8-hour average concentrations in the higher end of the good range. Concentrations of fine particulate matter (PM-2.5) will climb into the low end of the moderate range as moisture levels begin to rise thanks to the southerly flow. Good air quality is expected for the weekend with rain showers likely on Saturday and Sunday.

	Atmospheric Dispersion Index		Wind (dir mph)	Surface Inversion Forecast
Today	<i>Morning</i>	26	E-SE <5-10	Strong
	<i>Afternoon</i>	44	S 5-10	--
Tonight	<i>Evening</i>	6	W-SE 5-10	--
	<i>Overnight</i>	8	SE 5	--
Tomorrow	<i>Morning</i>	22	E-SE 5-10	--
	<i>Afternoon</i>	31	SE 10	--

Morning Surface Temperature Inversion Report:

	Surface Temperature Inversion?	Temperature (°C)	Depth (m)	Est. Break Time	Characterization	Upper air Inversion Present?
Today	Yes	8.2	206	10:30 AM	Strong	No