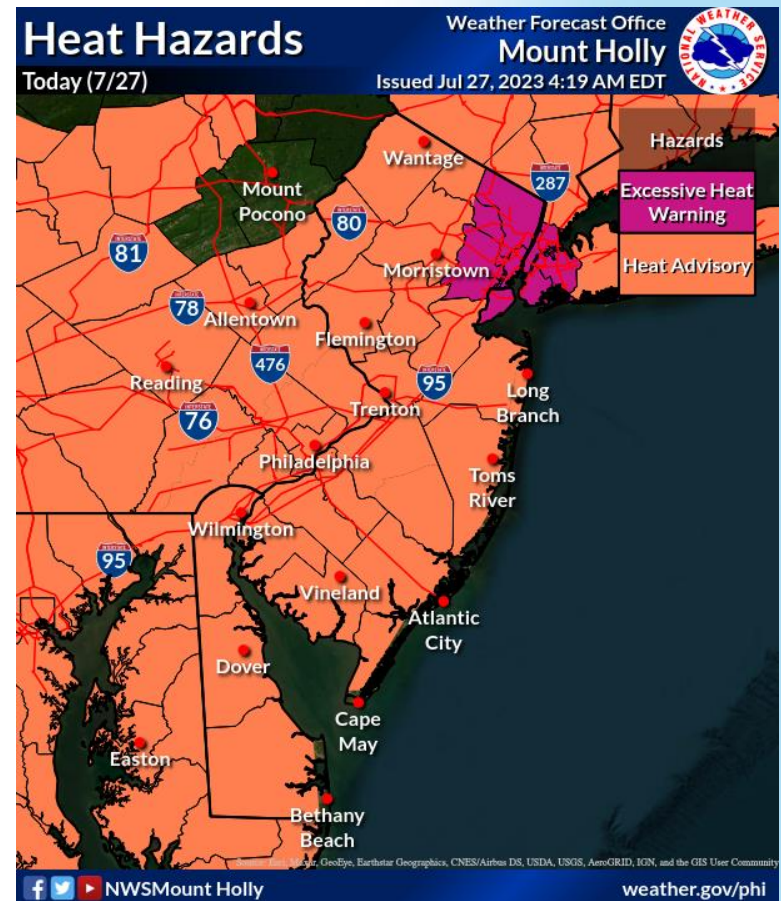


# Heat and Severe Weather July 27-29, 2023

## Decision Support Briefing #1 As of: 6 AM, Thursday, July 27, 2023

### What Has Changed?

✓ Initial Briefing Package.



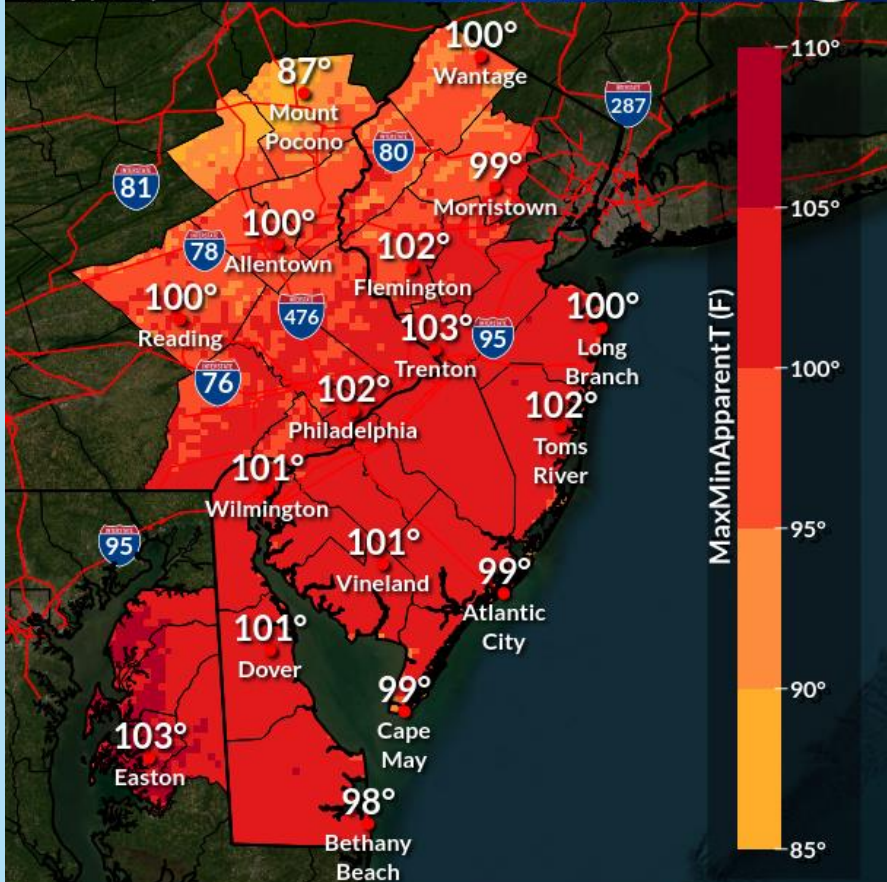
# Heat Index and Hazards for Today

## Max Heat Index

Today (7/27)

Weather Forecast Office  
**Mount Holly**

Issued Jul 27, 2023 4:12 AM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

[f](#) [t](#) [v](#) NWSMount Holly

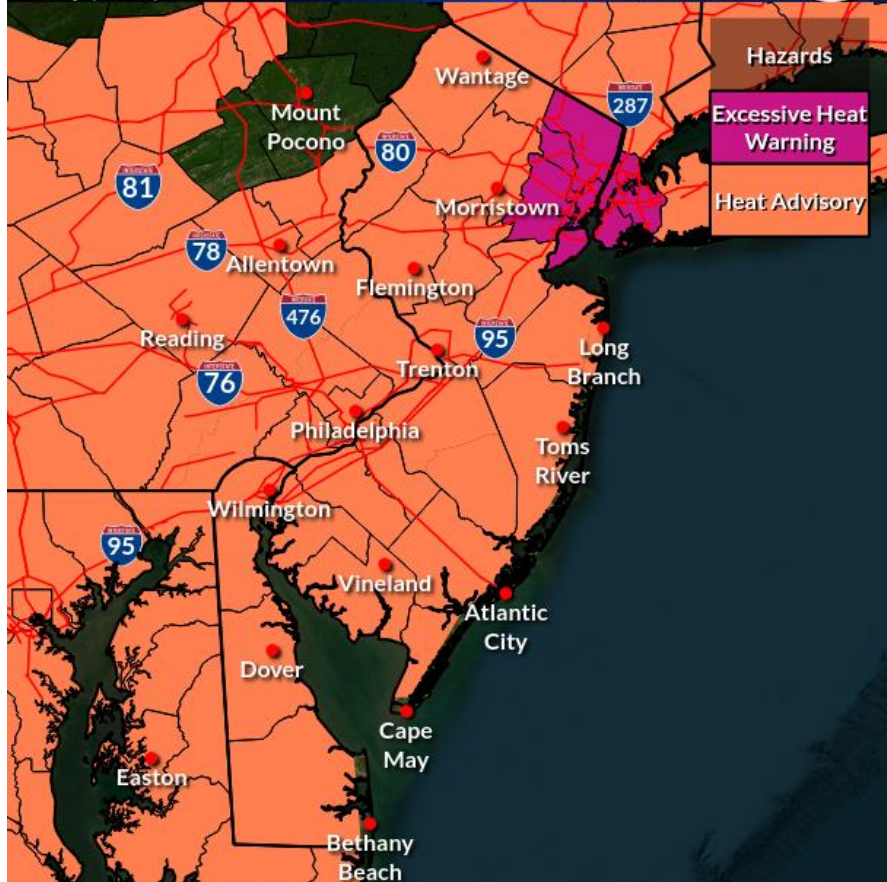
[weather.gov/phi](http://weather.gov/phi)

## Heat Hazards

Today (7/27)

Weather Forecast Office  
**Mount Holly**

Issued Jul 27, 2023 4:19 AM EDT



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

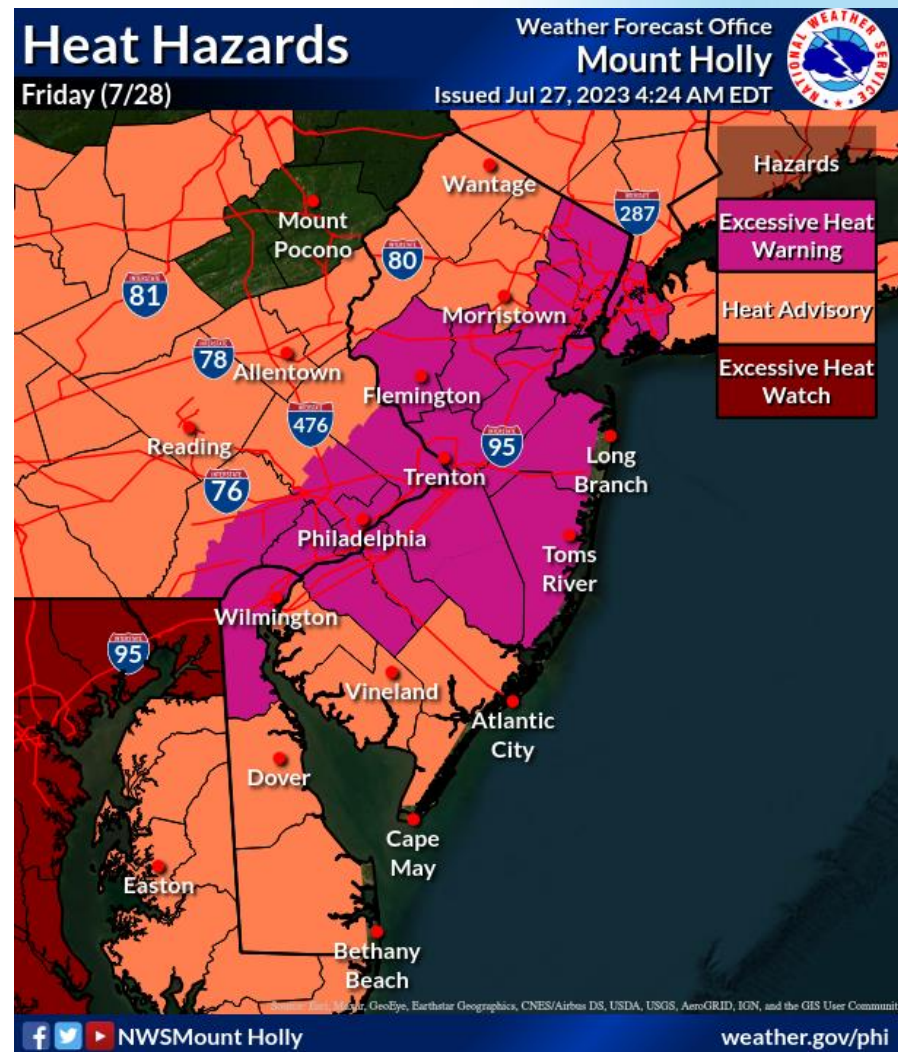
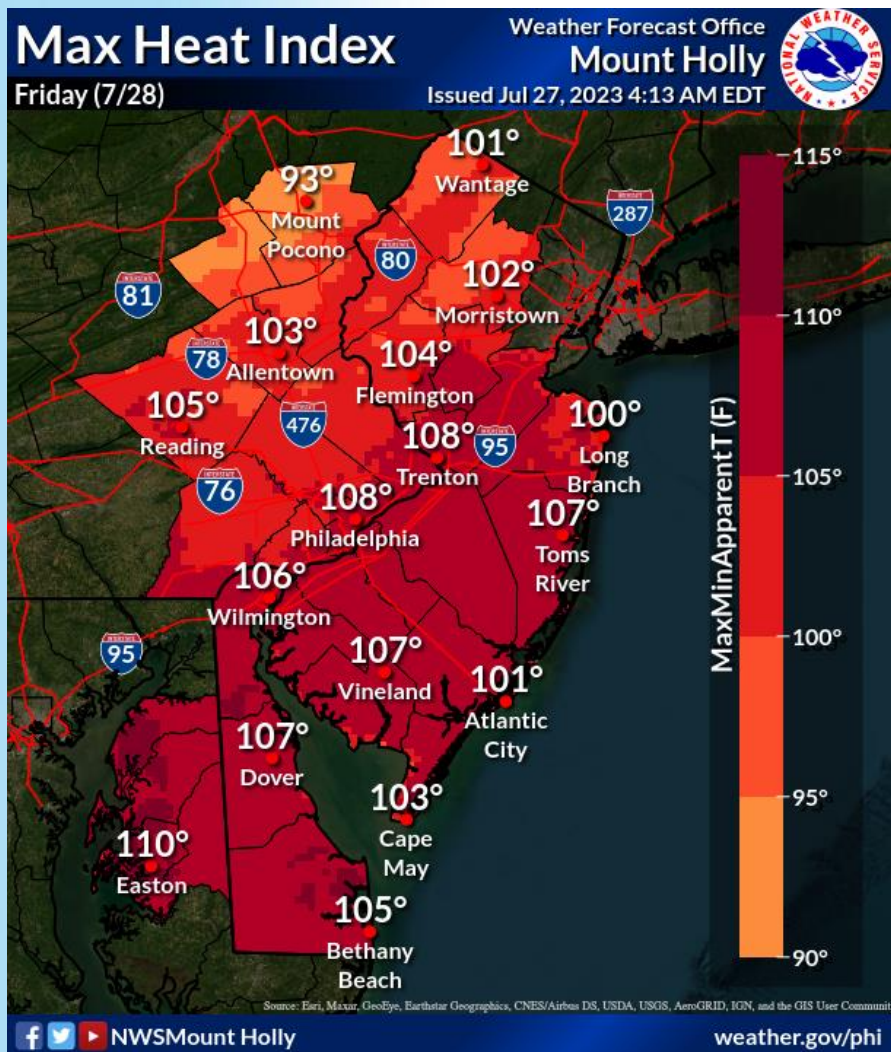
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[weather.gov/phi](http://weather.gov/phi)

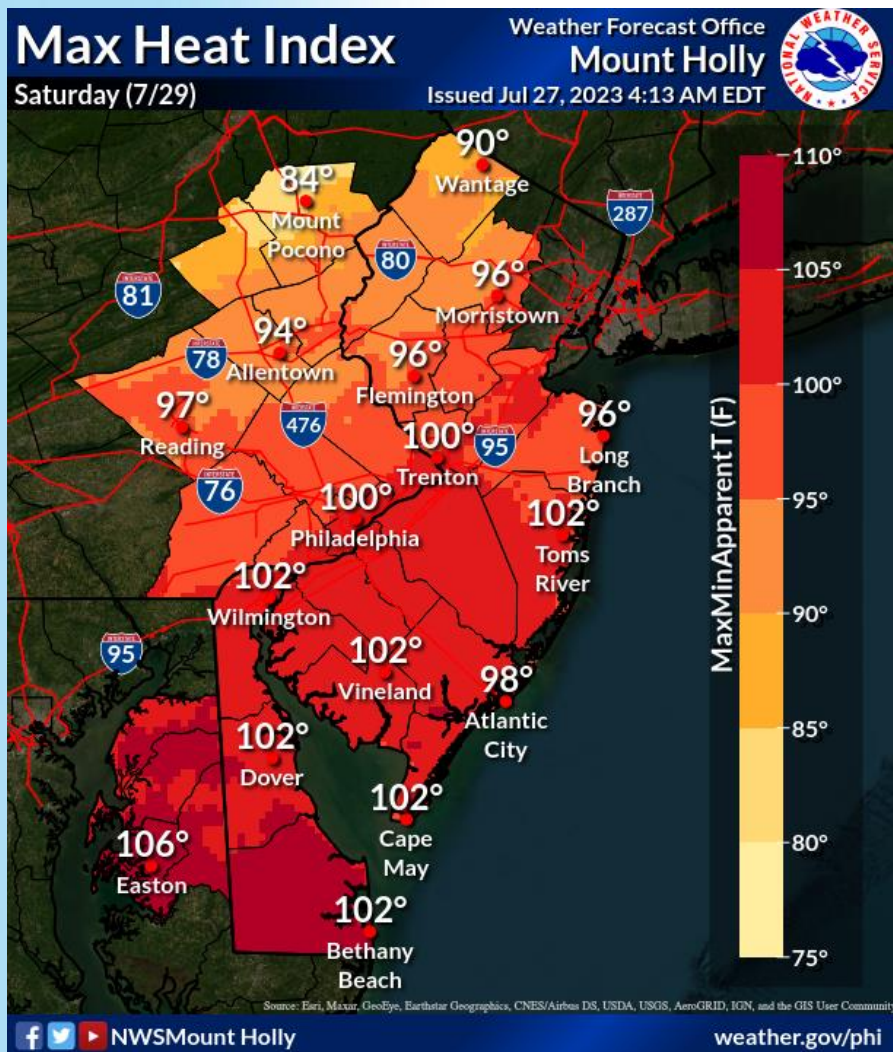




# Heat Index and Hazards for Friday



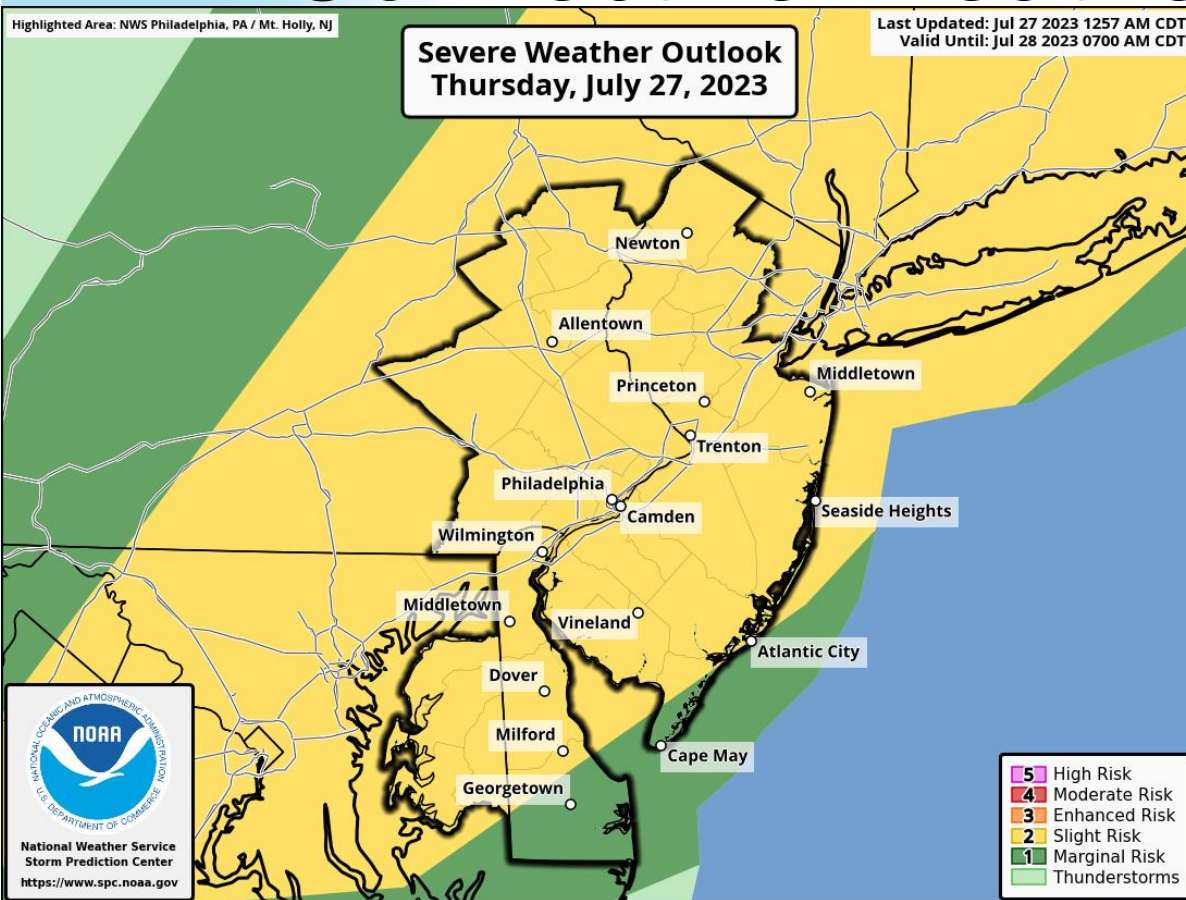
# Heat Index for Saturday



**A Heat Advisory may be needed for the Urban Corridor and portions of southern New Jersey on Saturday.**



# Convective Weather Outlook



**This afternoon through tonight:**

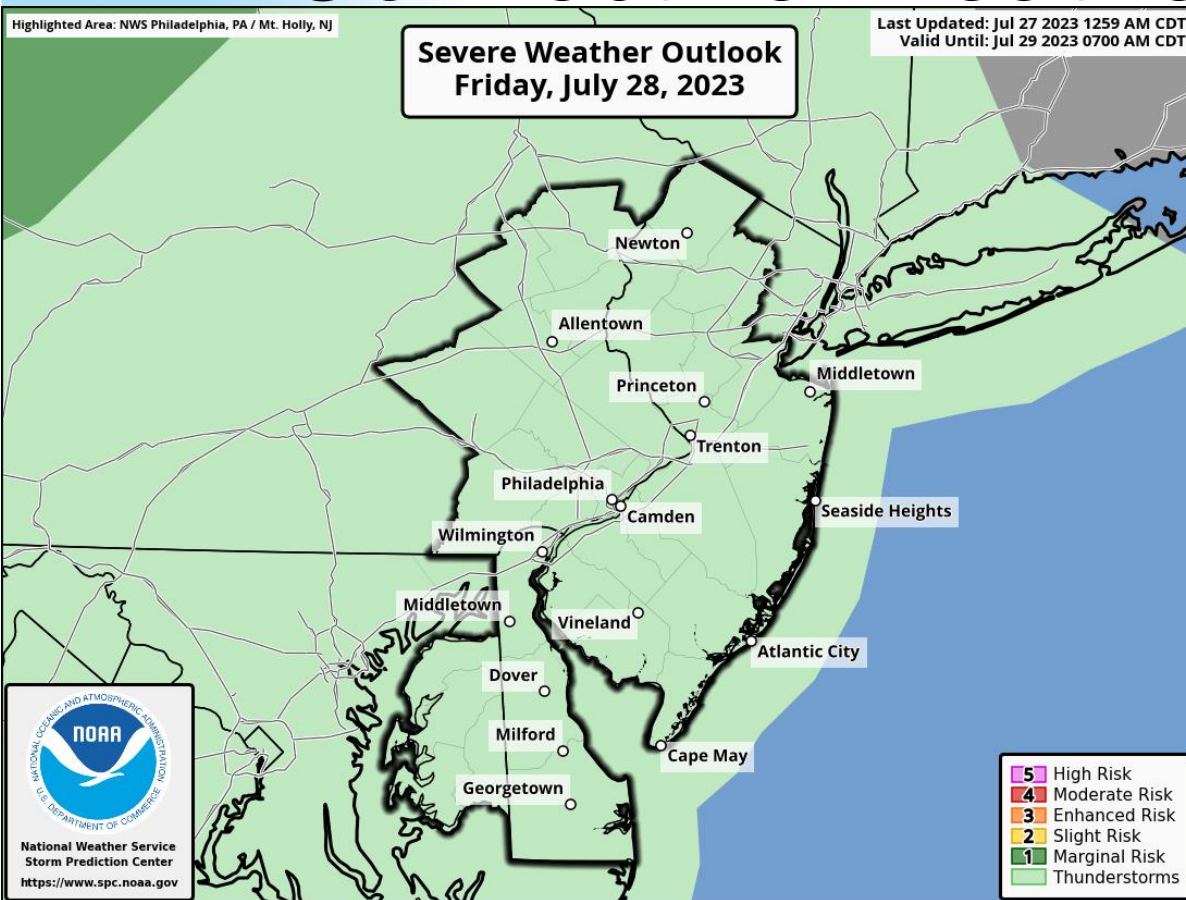
**Primary threat:**

Damaging wind gusts of 60 to 70 mph. There is a lesser threat for hail.

Localized flash flooding.

**Timing:** ~2pm to 10pm.

# Convective Weather Outlook

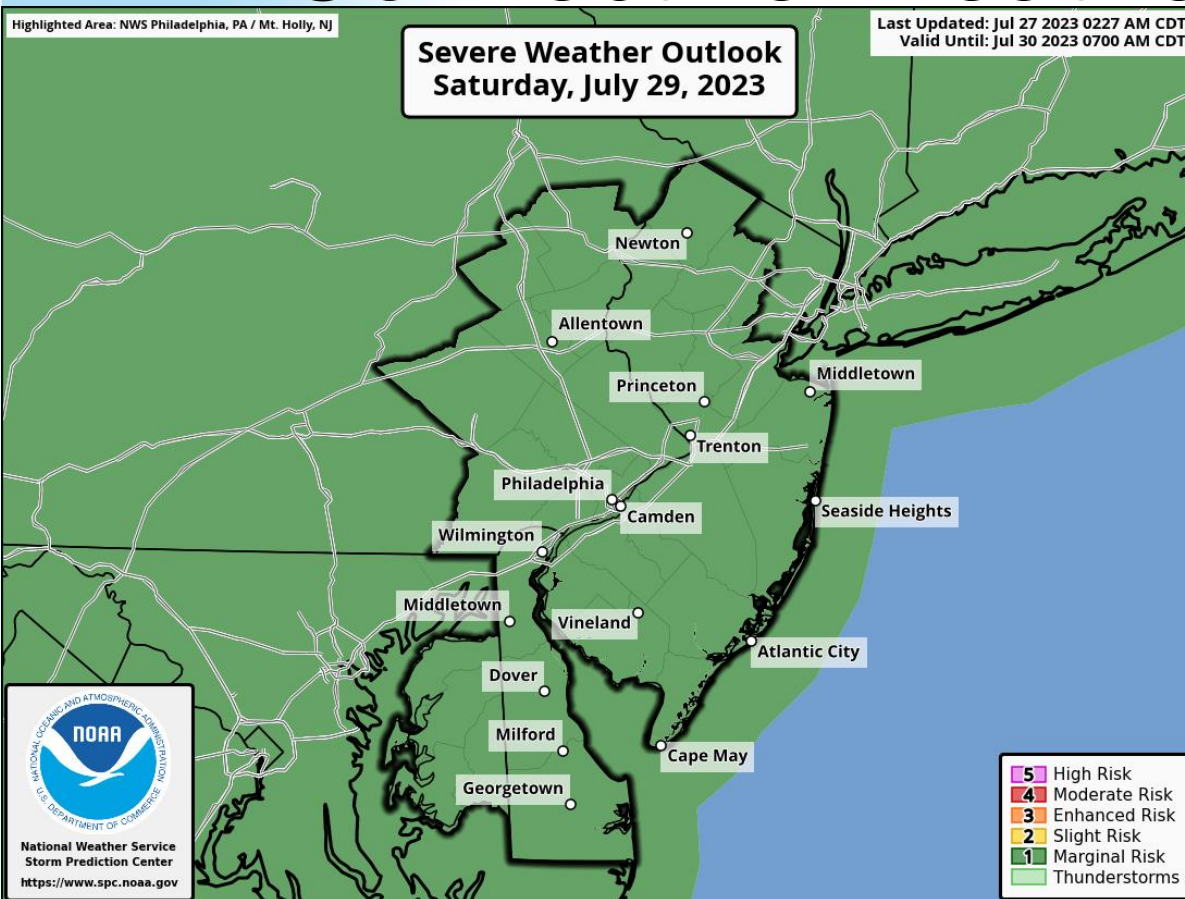


**Friday afternoon  
through Friday evening:**

**Primary threat:** Wind  
gusts of 50 to 60 mph.

Localized flash flooding.

# Convective Weather Outlook



**Saturday afternoon  
through Saturday  
evening:**







**Primary threat:**  
Damaging wind gusts of  
60 to 70 mph. There is a  
lesser threat for hail.

Localized flash flooding.



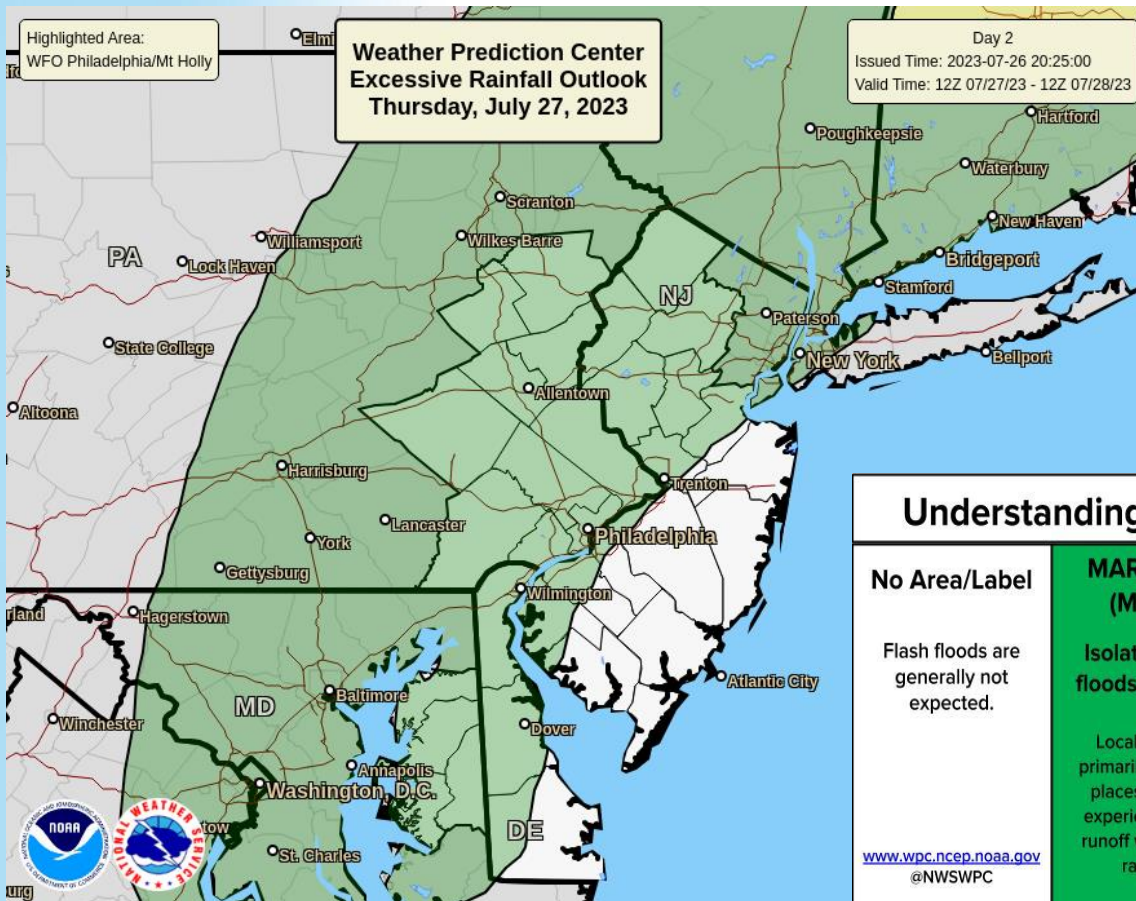
# Convective Weather Outlook

## Understanding Severe Thunderstorm Risk Categories

THUNDERSTORMS (no label)	1 - MARGINAL (MRGL)	2 - SLIGHT (SLGT)	3 - ENHANCED (ENH)	4 - MODERATE (MDT)	5 - HIGH (HIGH)
No severe* thunderstorms expected	Isolated severe thunderstorms possible	Scattered severe storms possible	Numerous severe storms possible	Widespread severe storms likely	Widespread severe storms expected
Lightning/flooding threats exist with <u>all</u> thunderstorms	Limited in duration and/or coverage and/or intensity	Short-lived and/or not widespread, isolated intense storms possible	More persistent and/or widespread, a few intense	Long-lived, widespread and intense	Long-lived, very widespread and particularly intense
					
<ul style="list-style-type: none"> <li>• Winds to 40 mph</li> <li>• Small hail</li> </ul>	<ul style="list-style-type: none"> <li>• Winds 40-60 mph</li> <li>• Hail up to 1"</li> <li>• Low tornado risk</li> </ul>	<ul style="list-style-type: none"> <li>• One or two tornadoes</li> <li>• Reports of strong winds/wind damage</li> <li>• Hail ~1", isolated 2"</li> </ul>	<ul style="list-style-type: none"> <li>• A few tornadoes</li> <li>• Several reports of wind damage</li> <li>• Damaging hail, 1 - 2"</li> </ul>	<ul style="list-style-type: none"> <li>• Strong tornadoes</li> <li>• Widespread wind damage</li> <li>• Destructive hail, 2" +</li> </ul>	<ul style="list-style-type: none"> <li>• Tornado outbreak</li> <li>• Derecho</li> </ul>
<small>* NWS defines a severe thunderstorm as measured wind gusts to at least 58 mph, and/or hail to at least one inch in diameter, and/or a tornado. All thunderstorm categories imply lightning and the potential for flooding. Categories are also tied to the probability of a severe weather event within 25 miles of your location.</small>					








# Excessive Rainfall Outlook



**This afternoon through tonight:**

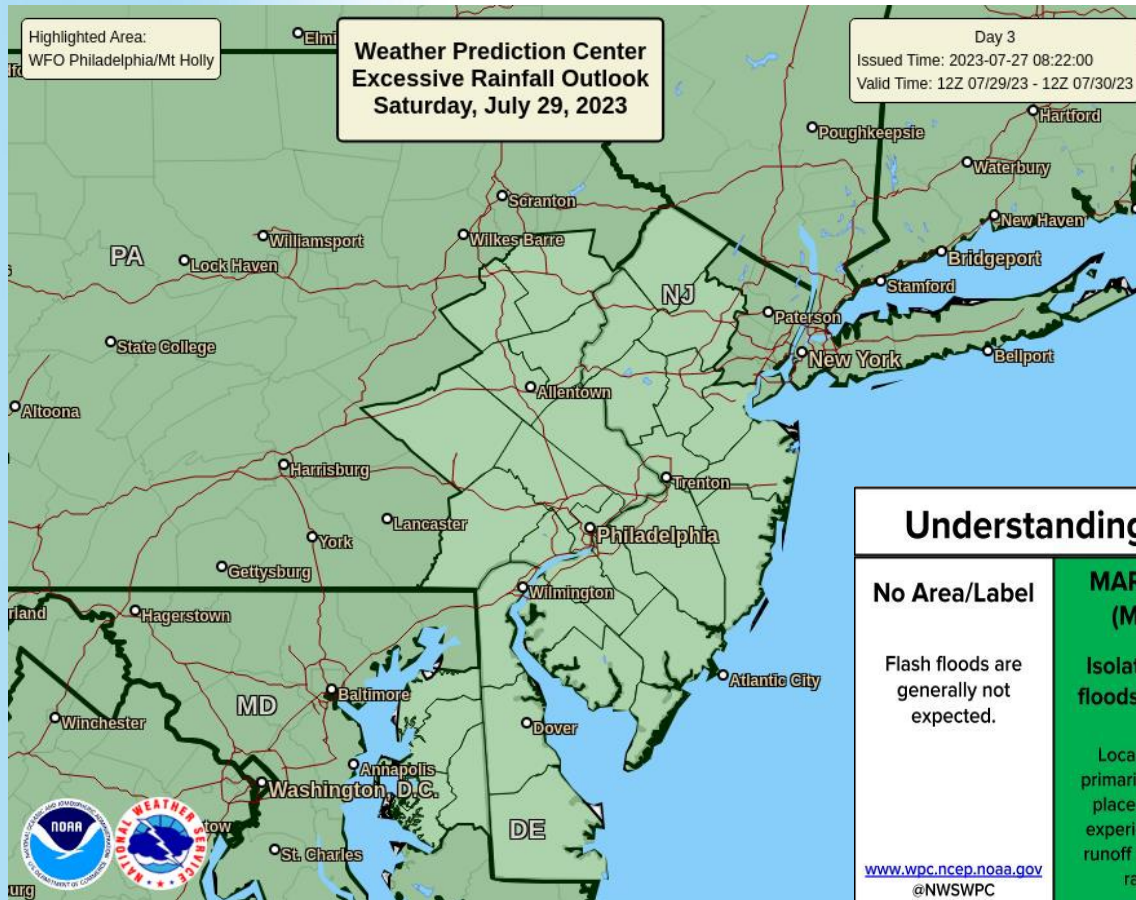
Localized flash flooding.

## Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
<a href="http://www.wpc.ncep.noaa.gov">www.wpc.ncep.noaa.gov</a> @NWSWPC	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
NO Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
 WEATHER PREDICTION CENTER				

# Excessive Rainfall Outlook

**Saturday afternoon  
through Saturday night:**  
  
Localized flash flooding.



## Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible	Scattered flash floods possible	Numerous flash floods likely	Widespread flash floods expected
	Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.
<a href="http://www.wpc.ncep.noaa.gov">@NWSWPC</a>				
Flash flooding near me?	Flash Flooding	Flash Flooding	Flash Flooding	Flash Flooding
NO Flash Flooding				
  WEATHER PREDICTION CENTER				



# Event Summary

- ✓ High heat and humidity will be in place through Saturday.
- ✓ Heat Advisories are in effect for today (Thursday July 27) as Heat Index values will range from 100° to 105°.
- ✓ Scattered showers and thunderstorms will develop this afternoon through this evening (approximately 2pm to 10pm). Some storms may be severe with damaging wind gusts (60 to 70 mph) and heavy rain with localized flash flooding.
- ✓ Excessive Heat Warnings are in effect for the urban corridor, including Philadelphia, and parts of NJ for Heat Index Values 105° to 109° on Friday, July 28. Heat Advisories in effect most elsewhere, including Delmarva and southern NJ, though criteria for Excessive Heat Warnings are higher there.
- ✓ Afternoon and evening showers and thunderstorms possible Friday.
- ✓ Heat Advisories may be needed Saturday for the urban corridor and parts of New Jersey. Late day and evening showers and thunderstorms are likely with damaging winds and localized flash flooding possible.

# Contact and Next Briefing Information



## Next Briefing

**When: 7 am Friday, July 28, 2023**  
**UNLESS there are changes to the forecast.**

## Briefing Webpage:

[www.weather.gov/media/phi/current\\_briefing.pdf](http://www.weather.gov/media/phi/current_briefing.pdf)



### Web:

[www.weather.gov/phi](http://www.weather.gov/phi)



### Phone (public):

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**Disclaimer:** The information contained within this briefing is time-sensitive, do not use after the next briefing package issuance