

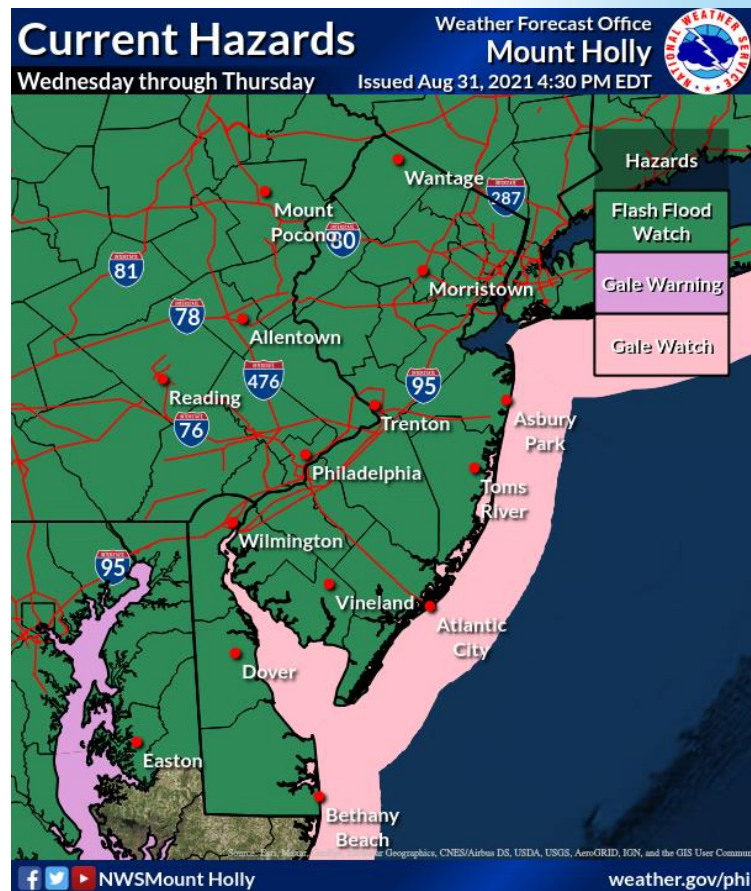
# Remnants of Hurricane Ida Wednesday through Thursday

## Decision Support Briefing #4





As of: 6 PM, Tuesday, August 31, 2021

### What Has Changed?

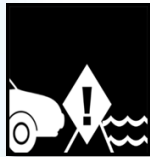
- ✓ Increased risk of tornadoes for Delmarva, southern New Jersey, and far southeast PA Wednesday evening/night.
- ✓ Gale Watch now in effect for all marine areas Wednesday night through Thursday.



# Main Points

Hazard	Impacts	Location	Timing
<b>Flash Flooding</b> 	<p>Flooding of creeks, streams, urban areas, and poor drainage areas. Water likely to cover roads, especially in low-lying areas.</p>	<p>Eastern Pennsylvania and northern New Jersey.</p>	<p>From Wednesday afternoon through Thursday morning.</p>
<b>Flash Flooding</b> 	<p>Some flooding of creeks, streams, urban areas, and poor drainage areas. Water may cover roads, especially in low lying areas.</p>	<p>Southern New Jersey, Delaware, and eastern Maryland.</p>	<p>From Wednesday afternoon through Thursday morning.</p>
<b>River Flooding</b> 	<p>Moderate to major flooding possible along some main stem rivers. Roads and structures near these rivers flooded.</p>	<p>Eastern Pennsylvania and New Jersey.</p>	<p>Starting Wednesday afternoon and possibly lasting into the weekend.</p>
<b>Severe Threat</b> 	<p>Strong to severe storms are anticipated to develop. Storms will be capable of producing tornadoes and damaging wind gusts, potentially bringing down trees and power lines.</p>	<p>Far southeast Pennsylvania, southern New Jersey, Delaware, and eastern Maryland.</p>	<p>Wednesday afternoon and Wednesday night.</p>

# Summary of Greatest Impacts



**Flash Flooding: N NJ, E PA, including Philadelphia**



**River Flooding: NJ and E PA**



**Flash Flooding: S NJ, DE, Eastern shores of MD**

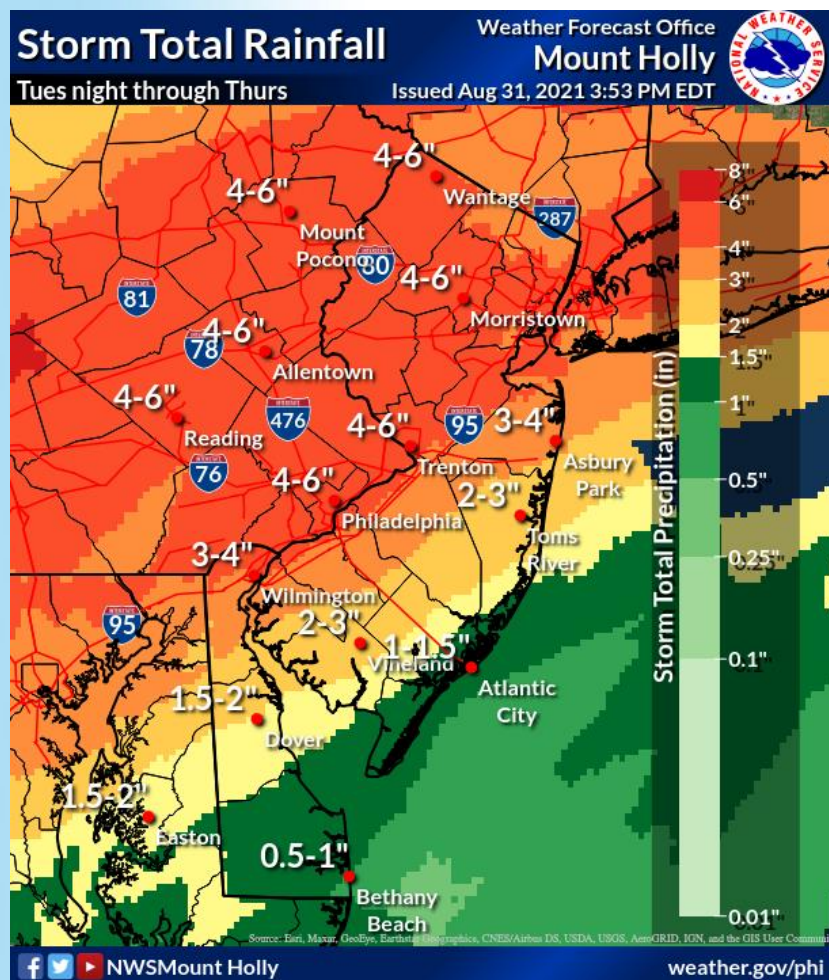


**Strong to Severe T-storms: Delmarva, S NJ, SE PA**





# Rainfall Amounts



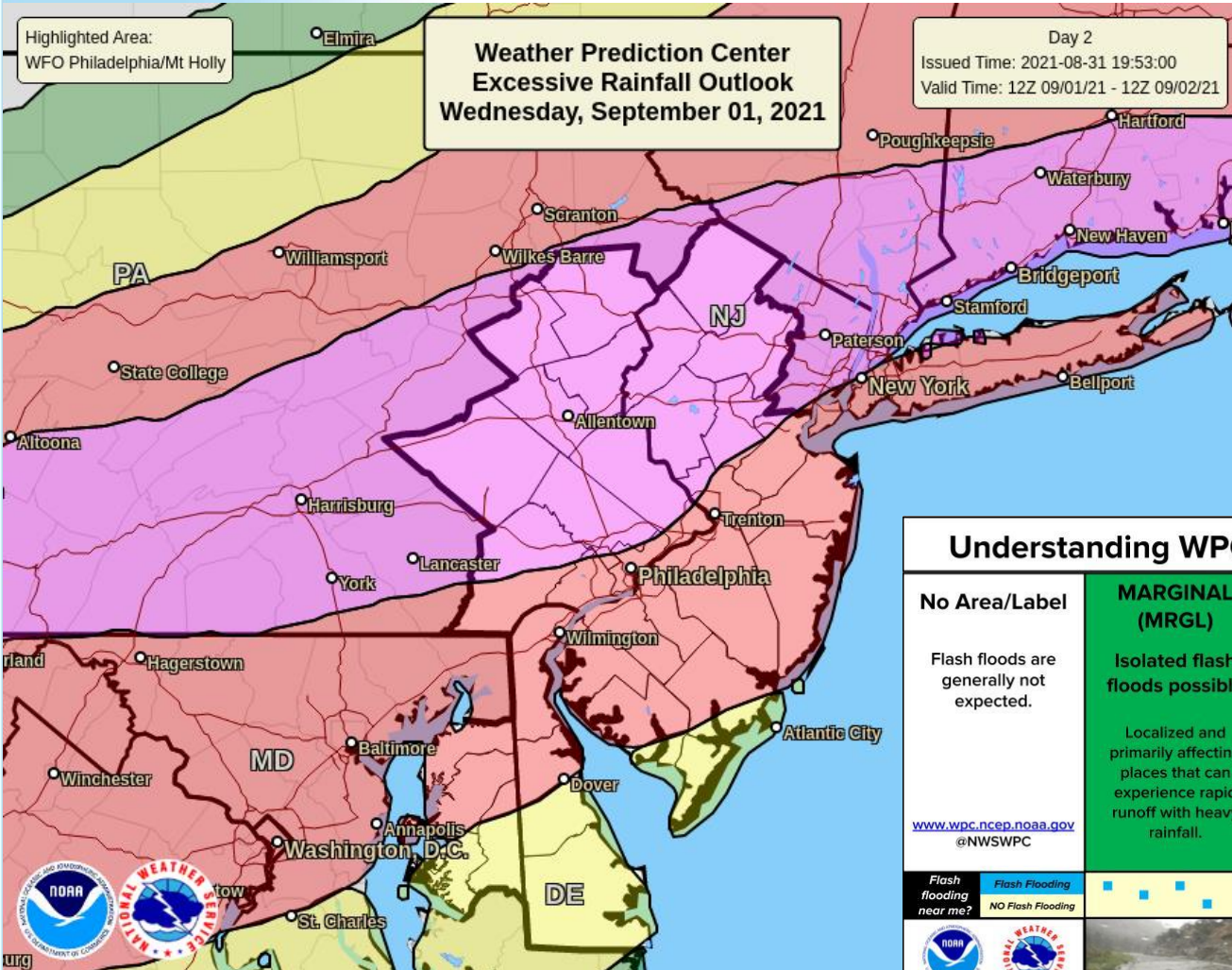
## Uncertainty information:

- Widespread heavy rainfall likely (**high confidence**)
- Pinpointing axis of heaviest totals (4-6+ inches) is of **moderate confidence**; most likely near and/or northwest of the I-95 corridor.

**Timing:** The heaviest rainfall is expected late Wednesday afternoon through the overnight hours.



# Flash Flooding Outlook



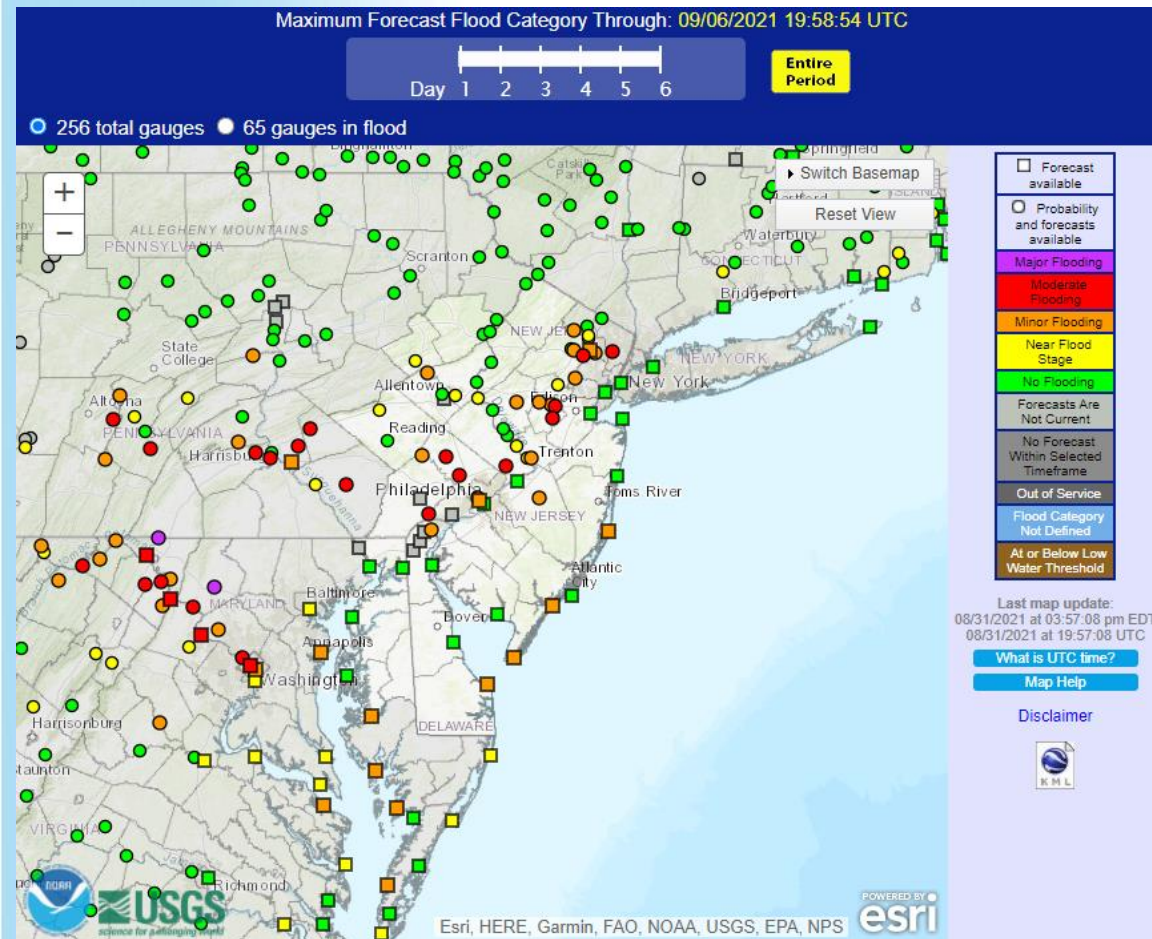
## Understanding WPC Excessive Rainfall Risk Categories

No Area/Label	MARGINAL (MRGL)	SLIGHT (SLGT)	MODERATE (MDT)	HIGH (HIGH)
Flash floods are generally not expected.	Isolated flash floods possible  Localized and primarily affecting places that can experience rapid runoff with heavy rainfall.	Scattered flash floods possible  Mainly localized. Most vulnerable are urban areas, roads, small streams and washes. Isolated significant flash floods possible.	Numerous flash floods likely  Numerous flash flooding events with significant events possible. Many streams may flood, potentially affecting larger rivers.	Widespread flash floods expected  Severe, widespread flash flooding. Areas that don't normally experience flash flooding, could. Lives and property in greater danger.





# River Forecasts (as of 6 pm)

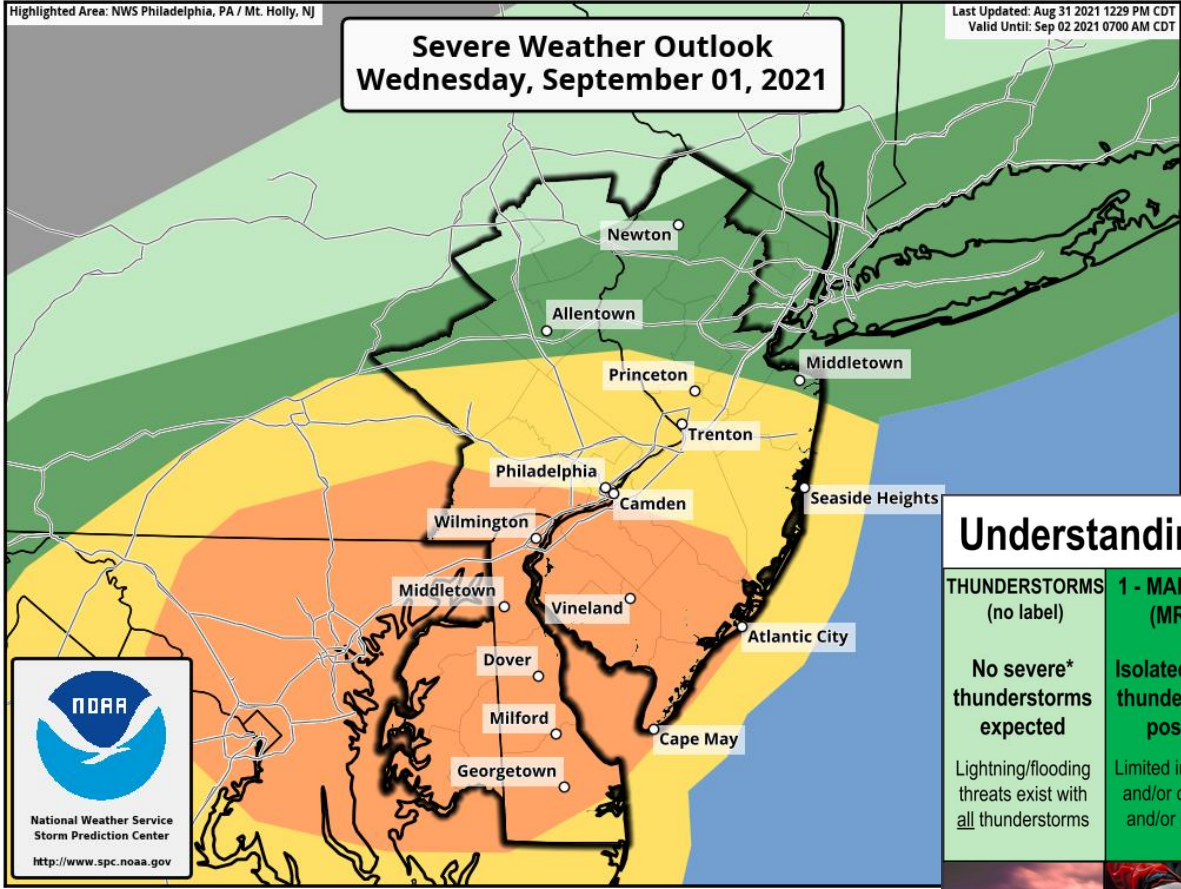


Several gauges are forecast to reach flood stage in our area. As confidence in rainfall totals increases, more gauges may be forecast to go into flood.

Latest river forecasts can be found [here](#).

You can also refer to the Mid-Atlantic River Forecast Center for the latest information on river forecasts: <https://www.weather.gov/marfc>

# Convective Weather Outlook



## Primary threats:

- Tornadoes
- Damaging wind gusts

**Timing:** Late Wednesday afternoon through Wednesday night

## 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
• Winds to 40 mph • Small hail	• Winds 40-60 mph • Hail up to 1" • Low tornado risk	• One or two tornadoes • Reports of strong winds/wind damage • Hail ~1", isolated 2"	• A few tornadoes • Several reports of wind damage • Damaging hail, 1 - 2"	• Strong tornadoes • Widespread wind damage • Destructive hail, 2" +	• Tornado outbreak • Derecho

\* 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.





# Event Summary

- ✓ **The remnant low of Ida will pass through the region on Wednesday and Wednesday night. Excessive rainfall and severe thunderstorms are the main threats with this system.**
- ✓ **Widespread rainfall of 2 to 5 inches is forecast, with locally higher amounts possible, from Tuesday night through Thursday across the region, with the highest amounts from the I-95 corridor north and west.**
- ✓ **Numerous instances of flash flooding are likely Wednesday and Wednesday night, with some events possibly significant, since the ground is saturated from recent heavy rain events.**
- ✓ **Widespread river flooding is likely to occur if storm total rainfall forecasts are realized. Roads and structures along particularly susceptible rivers, creeks, and streams may be impacted. Stay tuned to the latest forecasts.**
- ✓ **The locations and severity of flooding impacts will depend on the placement of the heaviest rain axis, along with the potential for excessive hourly rainfall rates.**
- ✓ **Strong to severe thunderstorms are anticipated, mainly across Delmarva, southern New Jersey, and far southeast PA. The main threats from any thunderstorms that develop will be tornadoes and damaging wind gusts. The most likely time frame for this is late Wednesday afternoon through Wednesday night.**

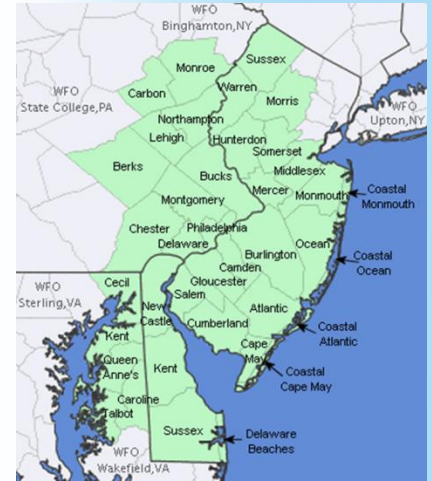


## Contact and Next Briefing Information



**Next Briefing**  
*When: 9 AM, Wednesday,  
September 1, 2021*

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



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