



Severe T-Storm & Flash Flood Risk: Tuesday PM Excessive Rainfall from Debby: Friday-Friday Night

Briefing Issuance: 3:52 AM | Tuesday, August 6, 2024

What has changed:

- Severe T-storm risk level increased and expanded to include most of central PA
- Included track and total rainfall graphics for Debby




Next Briefing: 6 PM Tuesday, August 6th

Disclaimer: The information contained within is time-sensitive. Do not use after 6:00 PM Tuesday 8/6





Situation Overview/Summary of Greatest Impacts

Hazard	Impacts	Location	Timing
 Damaging Winds	60+mph gusts could cause tree damage and result in isolated power outages	All of Central PA Greatest risk of a tornado over western PA	4-8PM Tuesday
 Flash Flooding	Excessive rainfall (localized 1-2", max 4+") leading to rapid onset flooding. Urban areas remain the most vulnerable to flooding.	East-central PA with the greatest risk (Level 3 of 4) over the eastern portion of the Lower Susquehanna Valley	Tuesday afternoon into Tuesday Night
 Flooding	Tropical moisture from Debby will likely bring additional heavy rainfall (1-4) inches with locally higher amounts	Greatest risk (level 2 of 4) over the eastern 2/3 of central PA or to the east of US219	Friday through Friday Night

Hazard: Damaging Tstm Wind | Tuesday PM



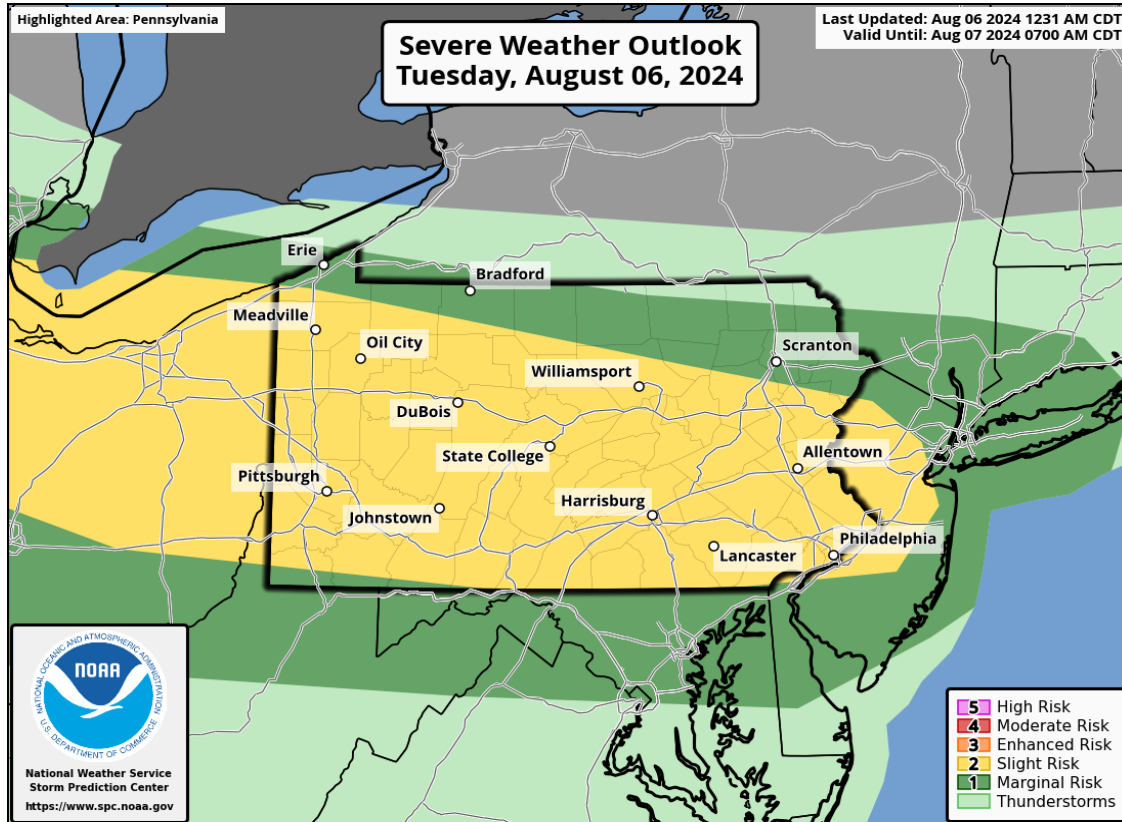
Hazard: Excessive Rain/Flash Flooding Tuesday PM and Friday-Friday Night





Severe Thunderstorm Risk – Tuesday Afternoon/Evening

Scattered Strong Storms Likely | Tuesday, August 6, 2024



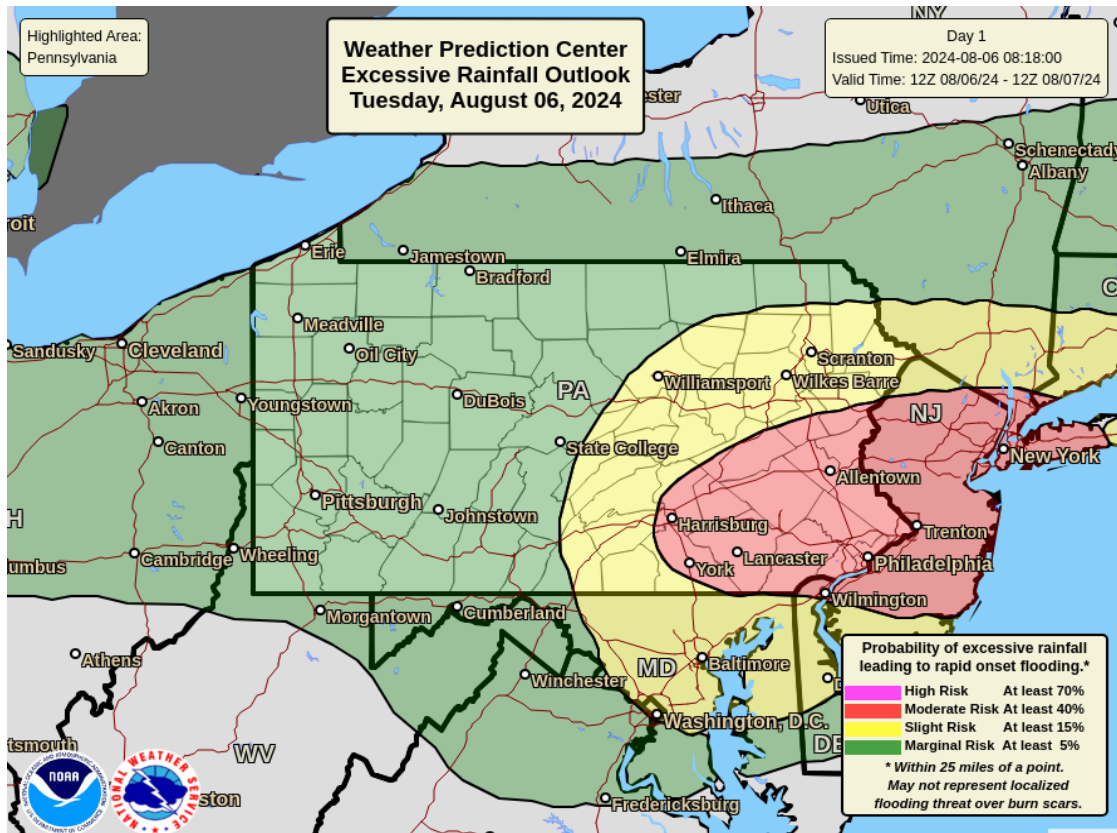
- Organized thunderstorm cells/clusters tracking from NW to SE across central PA
- Level 2 of 5 severe thunderstorm risk over most of central PA Tuesday PM
- Most likely timing: 4-8 PM
- **Damaging wind gusts are the primary threat**
 - Tornado possible in western PA
 - Marginal hail tertiary risk





Excessive Rainfall Outlook – Tuesday/Tuesday Night

Risk of Rapid Onset Flooding | Tuesday, August 6, 2024



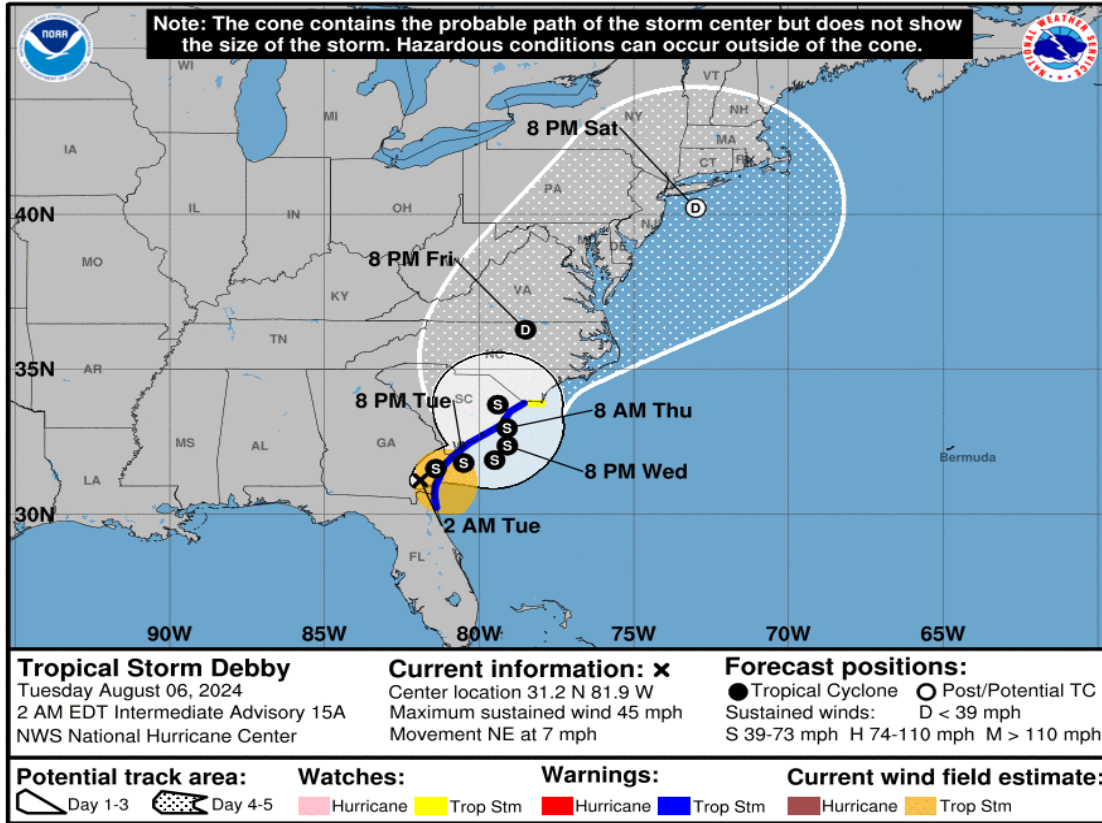
- Excessive rain risk remains in the **moderate** category or level 3 of 4 for the eastern portion of the lower Susquehanna Valley
- Level 2 of 4 excessive rain risk covers the rest of east-central PA
- Training storms ingesting tropical moisture could produce 1-2 inches of rain with localized amounts of 4+ inches possible
- There remains uncertainty in the location of heaviest rainfall, but the overall setup does have the look of a potential locally high impact flash flood event





Situation Overview

Tropical Storm Debby



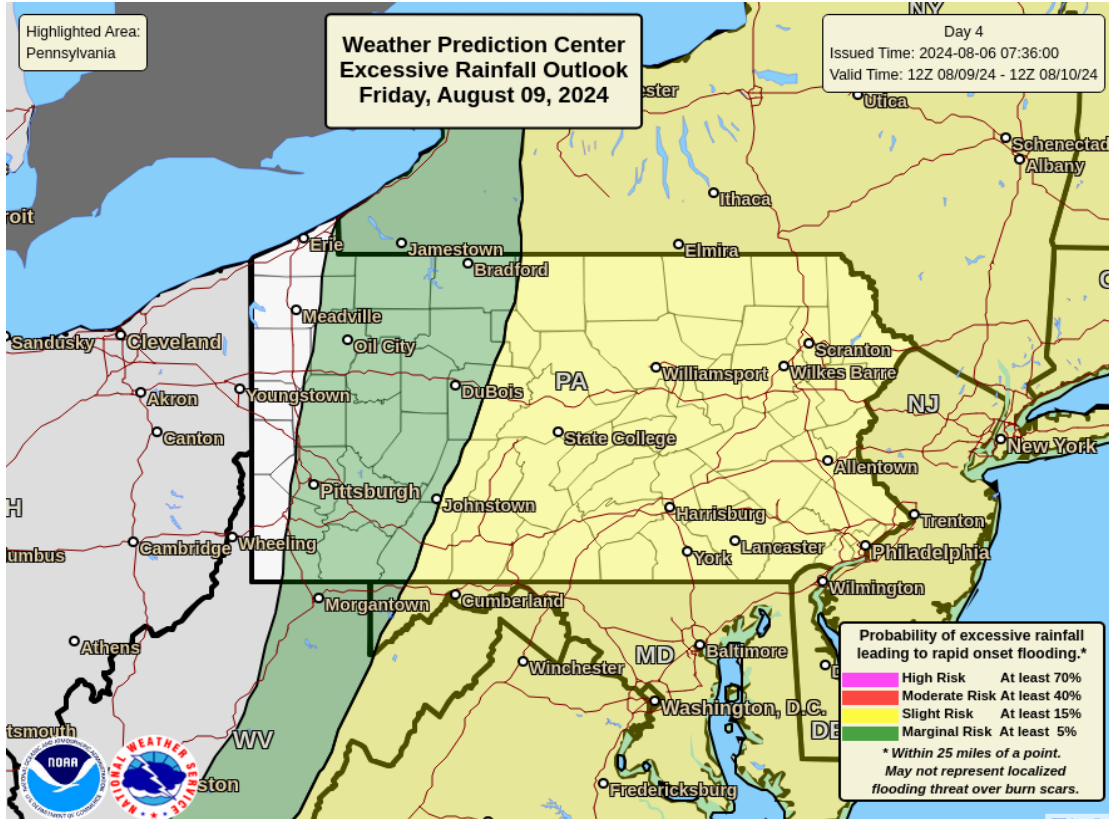
- Debby is forecast to move offshore the Georgia coast later today, but then meander off the South Carolina coast through Thursday
- Debby should move faster toward the north Thursday across the Carolinas and accelerate into the Mid Atlantic region Friday-Saturday
- Heavy rainfall will likely result in flooding impacts over portions of the Mid Atlantic States





Excessive Rainfall Outlook – Friday/Friday Night

Potential for Excessive Rainfall and Flooding with Debby | Friday, August 9, 2024



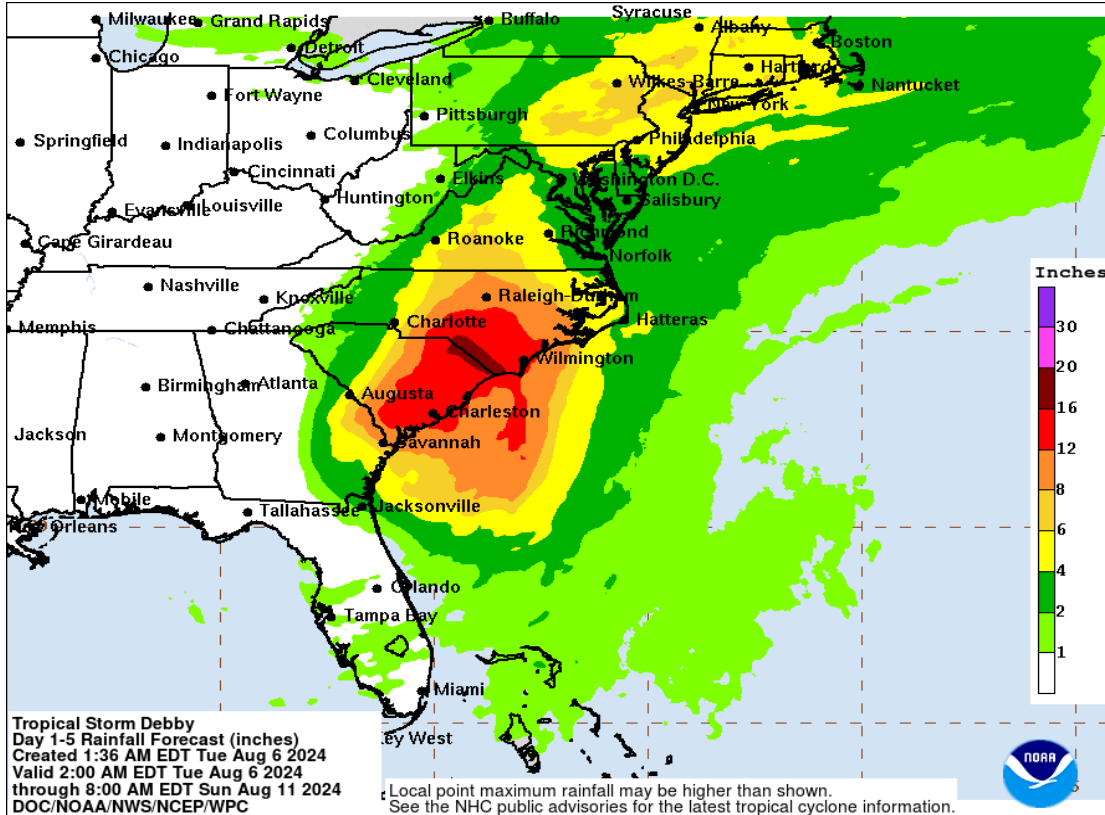
- Tropical moisture associated with Debby will interact with a frontal zone and bring the potential for heavy rainfall in central PA Friday through Friday night
- Given variability in the rainfall forecast, a broad level 2 of 4 excessive rain/flash flooding risk was maintained for Friday.





Expected Storm Total Rainfall

Cumulative/Total Rainfall from Tuesday through Saturday



- The cumulative total rainfall from Tuesday through Saturday generally ranges from 1 to 6 inches over central Pennsylvania
- The highest amounts (3 to 6 inches with local amounts to 8 inches) are focused over the eastern Pennsylvania
- Forecast rainfall has the potential to produce flash, urban, and river flooding impacts





Stay tuned for updates!

www.weather.gov/ctp/briefing

Next Update:
6 PM Tuesday 8/6
Method: Email

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