



Hurricane Idalia Flood Briefing

4 PM EDT

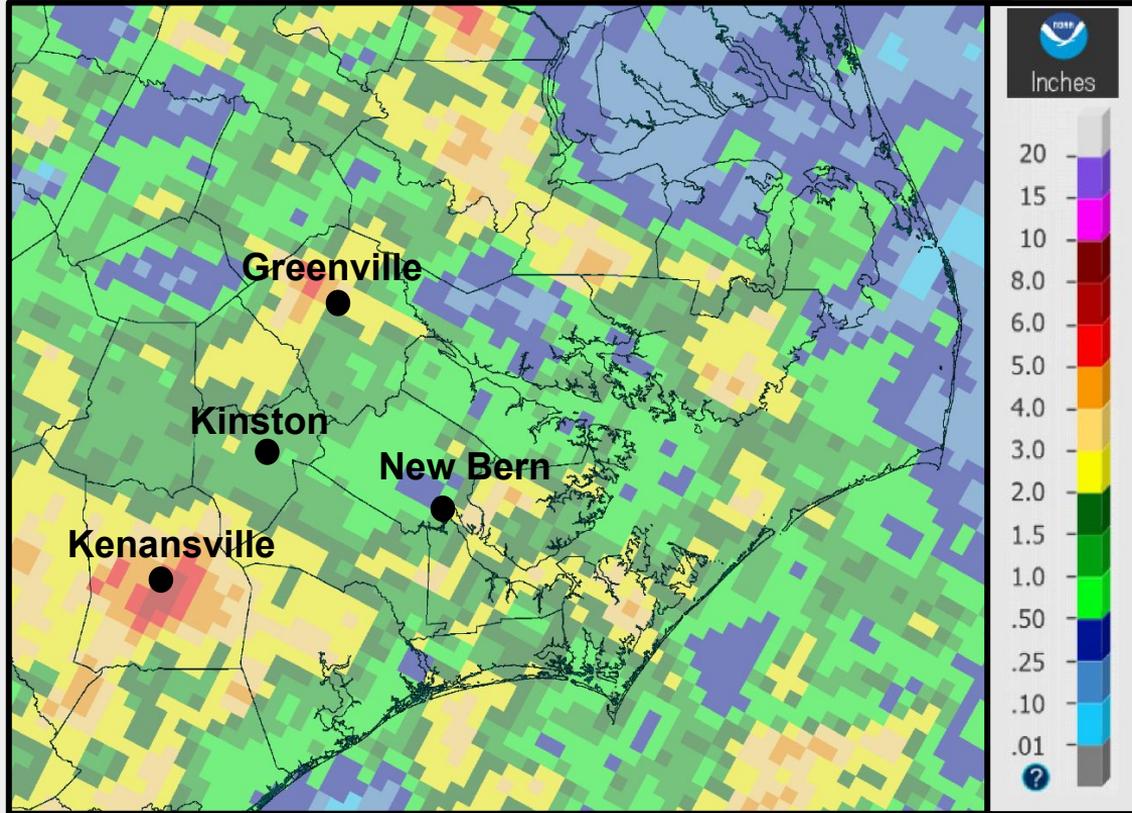
Wednesday, Aug 30, 2023

What has changed: Additional information on the flooding threat.



Antecedent Conditions (Rainfall since Sunday)

Hurricane Idalia



- Several inches of rain over the past few days have **saturated the previously dry ground in Eastern NC**
- **Up to 5 to 8 inches** of rain have fallen across portions of Duplin and Pitt Counties



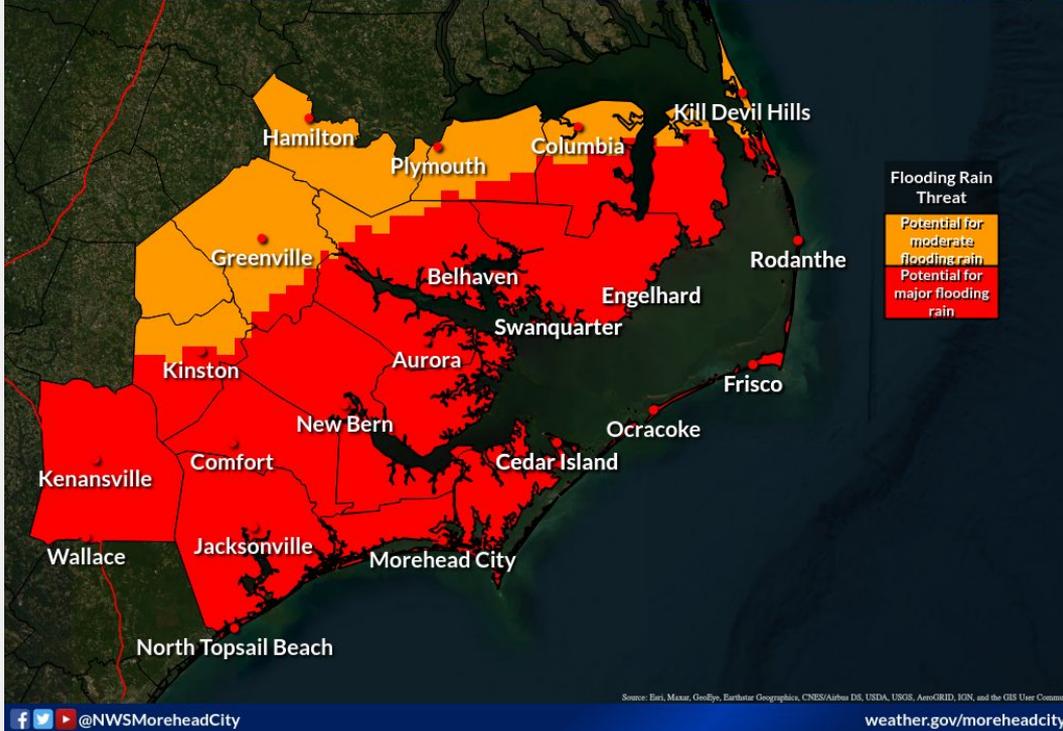
Flash Flooding Potential

Hurricane Idalia

Flooding Rain Threat

This Afternoon through Friday

Weather Forecast Office
Newport/Morehead City, NC
Issued Aug 30, 2023 4:55 AM EDT

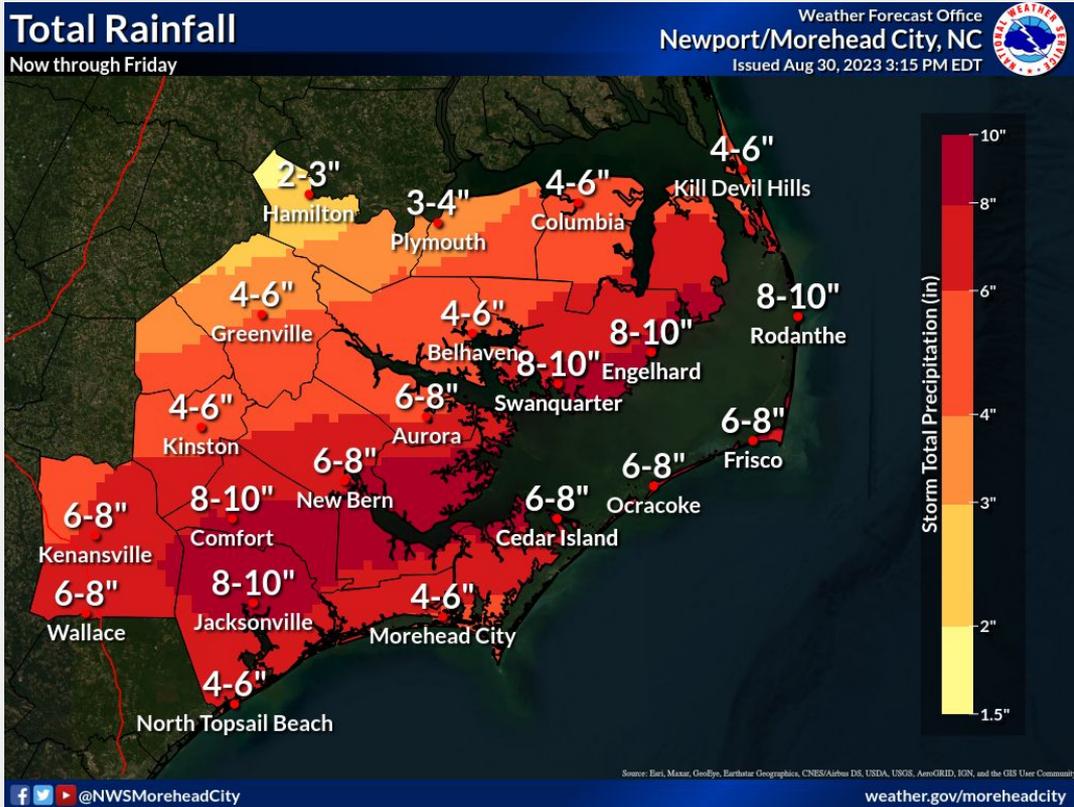


- Areas outlined in **Red** have the greatest potential for significant flash flooding this afternoon through Thursday.
- Extreme rainfall rates could result in **urban and flash flooding which may prompt water rescues and even evacuations.**
- Driving conditions will become dangerous. **Potential for road and bridge closures with some weakened or washed out.** Smaller rivers, creeks and tributaries may rapidly overflow their banks in multiple places.



Expected Storm Total Rainfall

Hurricane Idalia



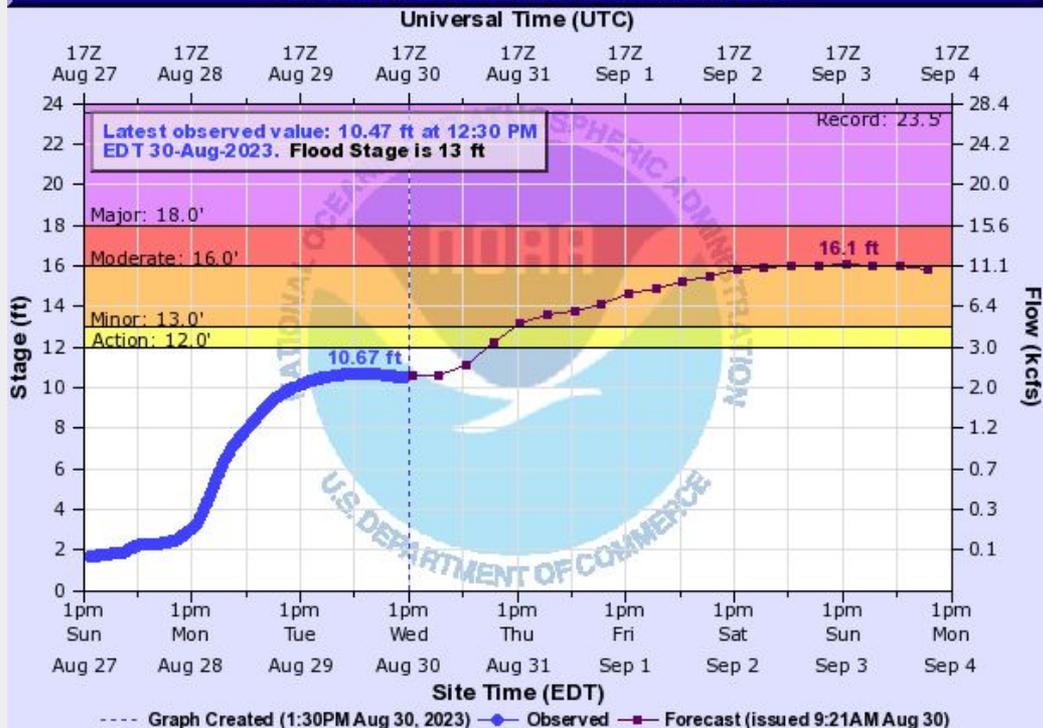
- An average of **4" to 10"** of rain will be possible across most of Eastern NC except far north and west, with isolated totals **up to 15"** possible.
- Significant urban and flash flooding is expected.



Expected River Flooding

Hurricane Idalia

N.E. CAPE FEAR RIVER NEAR CHINQUAPIN



CHIN7(plotting HGIRG) "Gage 0" Datum: 17.28'

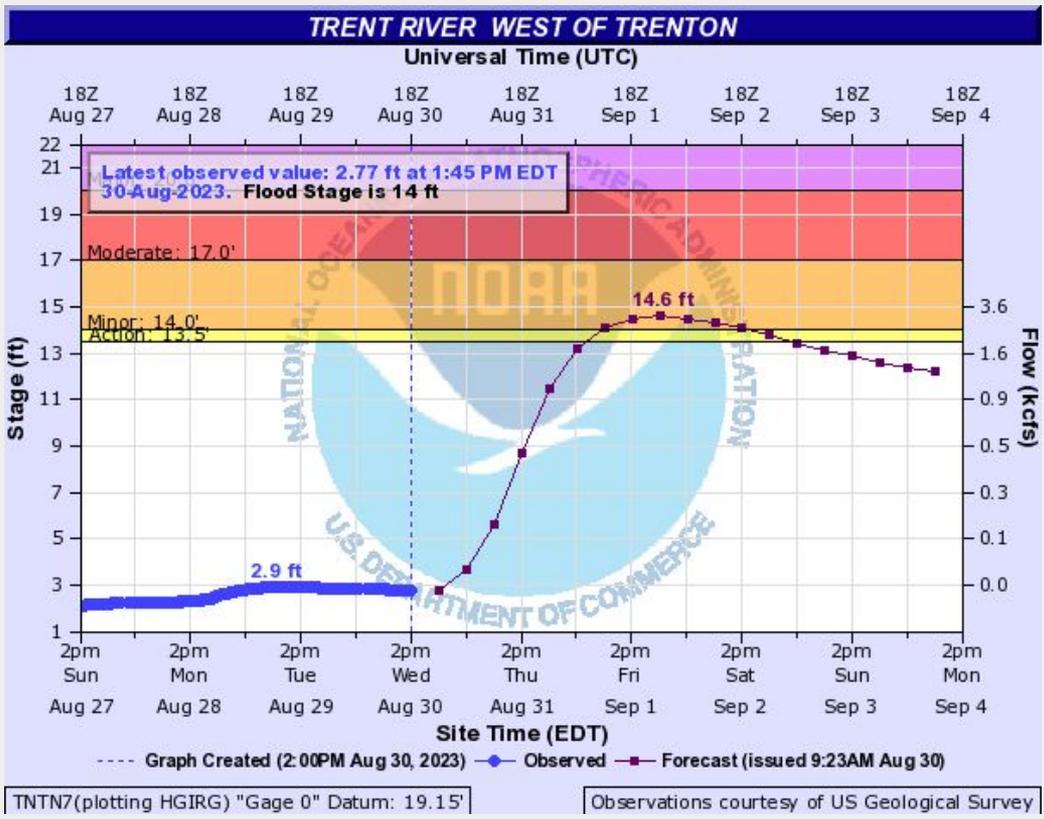
Observations courtesy of US Geological Survey

- Already elevated river levels in the NE Cape Fear basin as a result of heavy rains earlier this week.
- This will introduce a greater river flood potential as a result of heavy rains from Idalia.
- Forecast to crest at Moderate Flood Stage Saturday afternoon.



Expected River Flooding

Hurricane Idalia



- Though river levels are currently below normal, the **Trent River is expected to rapidly rise** through the day Thursday and into Friday as 8 to 10 inches of rainfall across the basin.
- Currently forecast to crest at Minor Flood Stage Friday night, however the forecast may rise higher with later updates.



Expected River Flooding

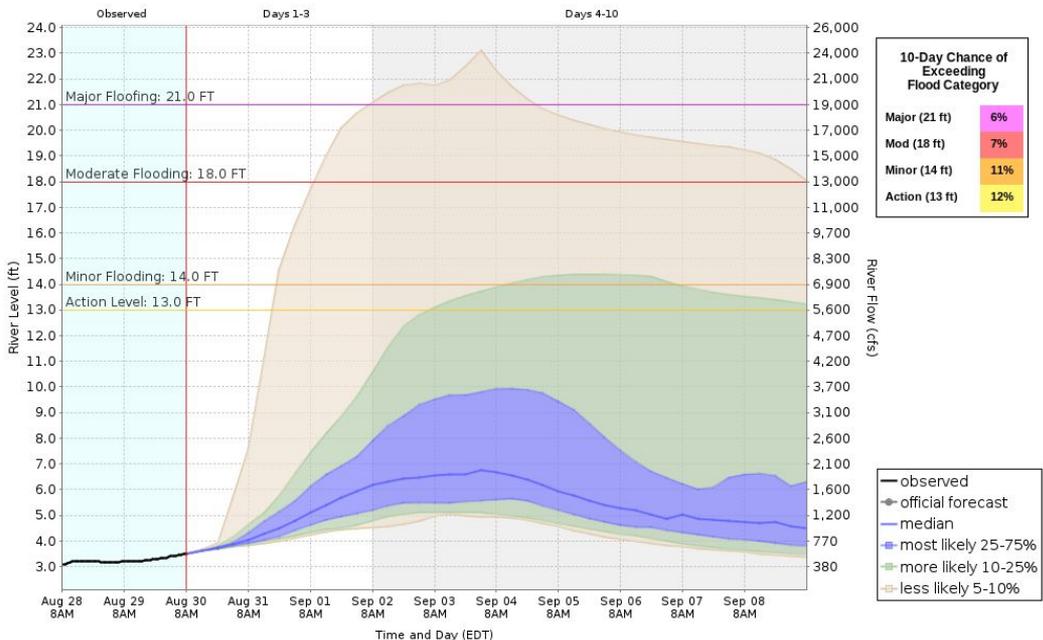
Hurricane Idalia

HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Aug 30 - Sep 09, 2023
Neuse River at Kinston



Model runtime: 08:00 AM EDT Aug 30 2023
Southeast River Forecast Center

- Flooding is **possible** along the lower Neuse River including at Kinston despite current below normal levels.

- **Most Likely Scenario:**

River stage will remain below flood stage, however there is a possibility (11% likelihood) of the river rising to 14 ft (minor flood stage).

- **Worst case scenario**

(7% likelihood) shows up to Moderate Level Flooding



Expected River Flooding

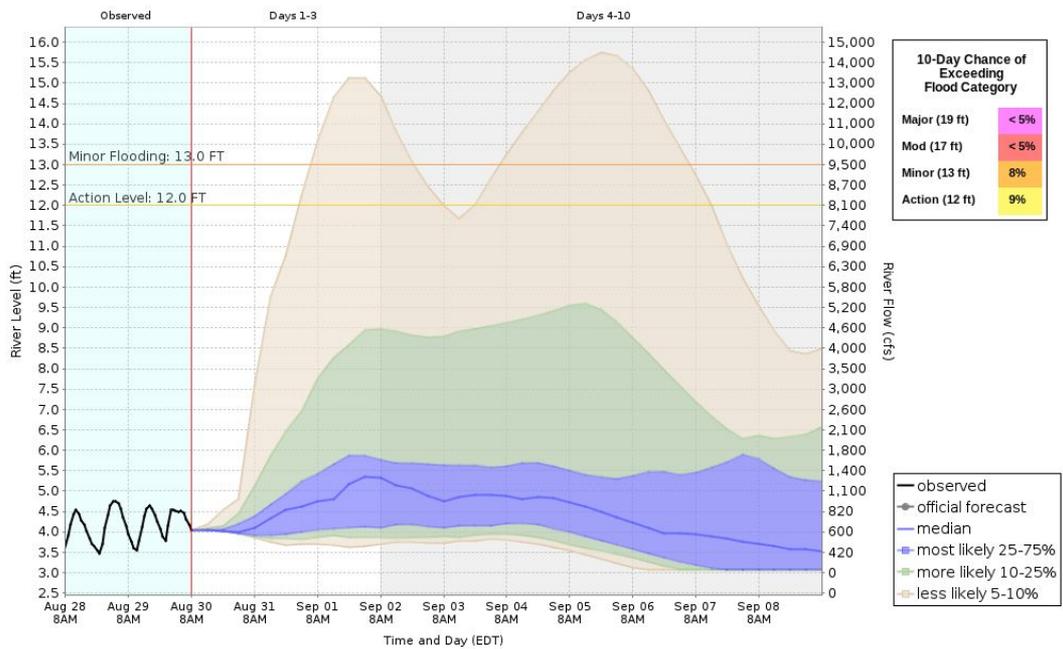
Hurricane Idalia

HEFS - 10 Day River Level Probabilities

Based on Hydrologic Ensemble Forecast Service Model Simulations
Used to Estimate the Range of Possible River Levels



Aug 30 - Sep 09, 2023
Tar River at Greenville



Model runtime: 08:00 AM EDT Aug 30 2023
Southeast River Forecast Center

- Flooding is **not likely** along the lower Tar River due to the current below normal levels and the current distribution of the expected rainfall (not as much rain in central NC).
- Latest ensemble river forecast for **Greenville shows that river stages will likely remain below 10 ft.**
- A worst case scenario (8% likelihood) shows up to Minor Level Flooding



Local Resources

Hurricane Idalia

Next Briefing:
As Needed
Method: Email



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