



Tropical Update



2:30 PM EDT

Wednesday, August 7, 2024

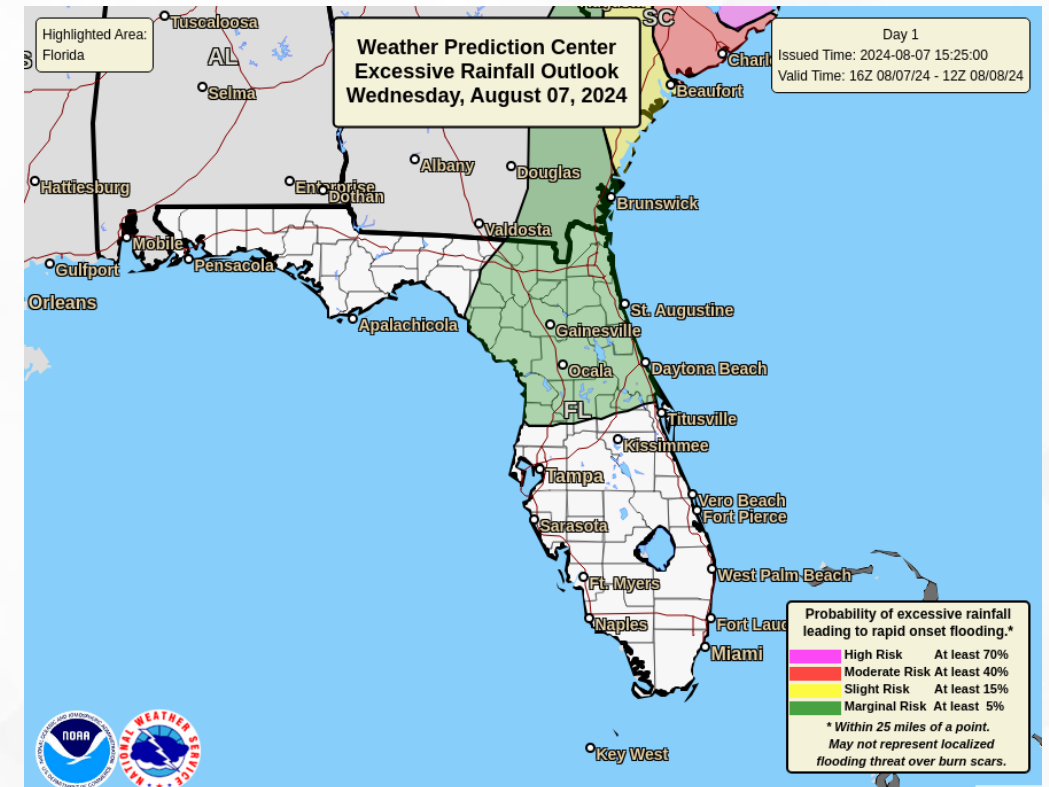
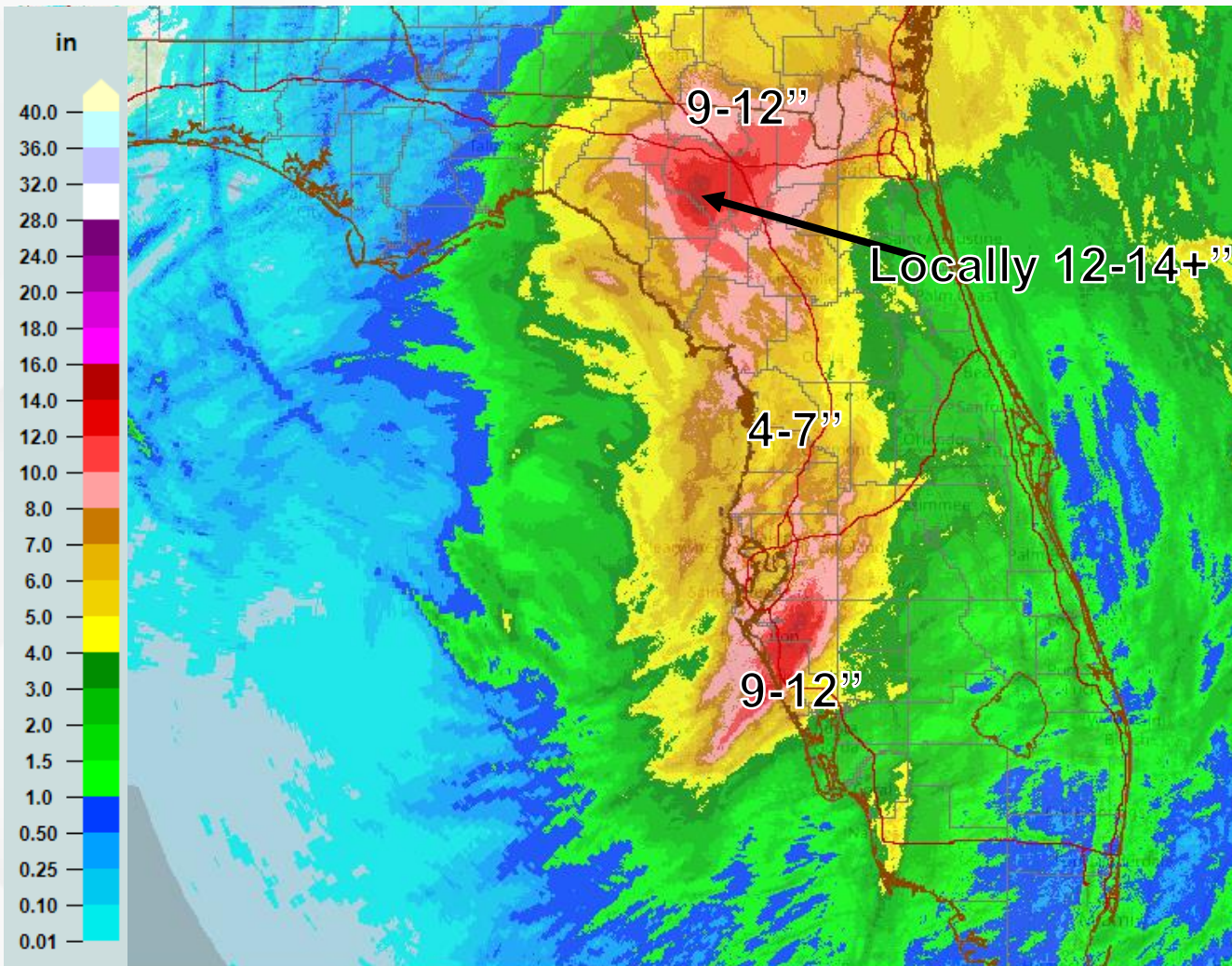
Post-Debby Florida Outlook & Hydrology

This update is intended for government and emergency response officials, and is provided for informational and situational awareness purposes only. Forecast conditions are subject to change based on a variety of environmental factors. For additional information, or for any life safety concerns with an active weather event please contact your County Emergency Management or Public Safety Office, local National Weather Service forecast office, or visit the National Hurricane Center website at www.hurricanes.gov.



Observed Rainfall Totals

Past 72 Hours

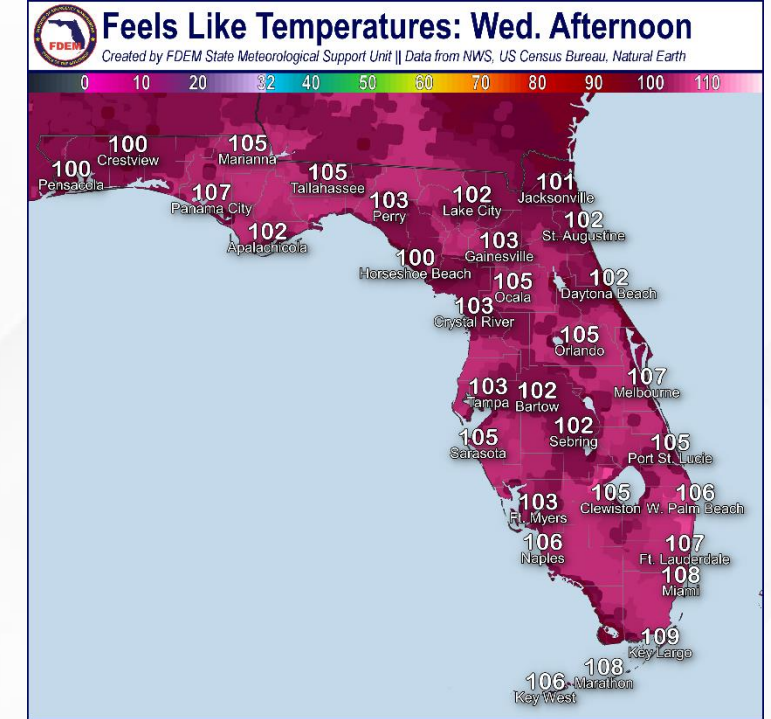
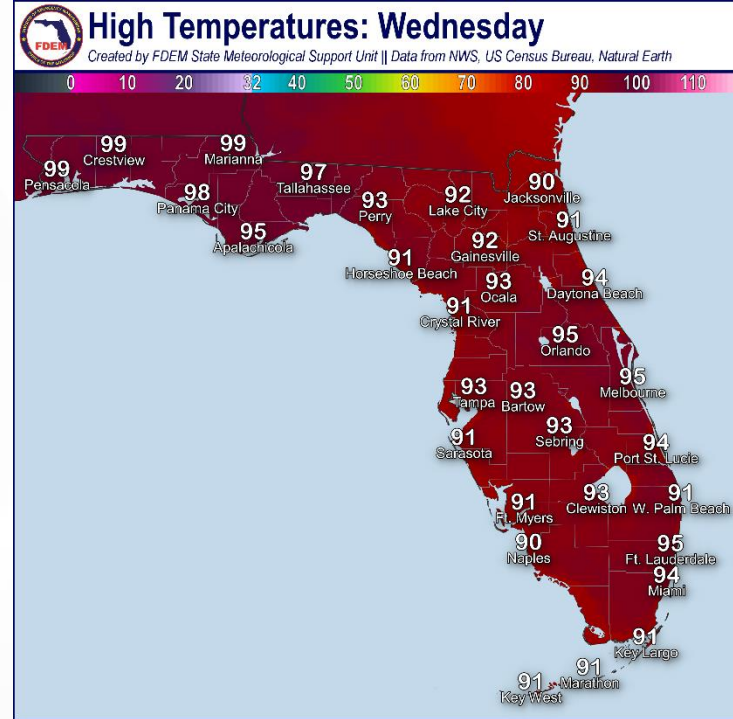
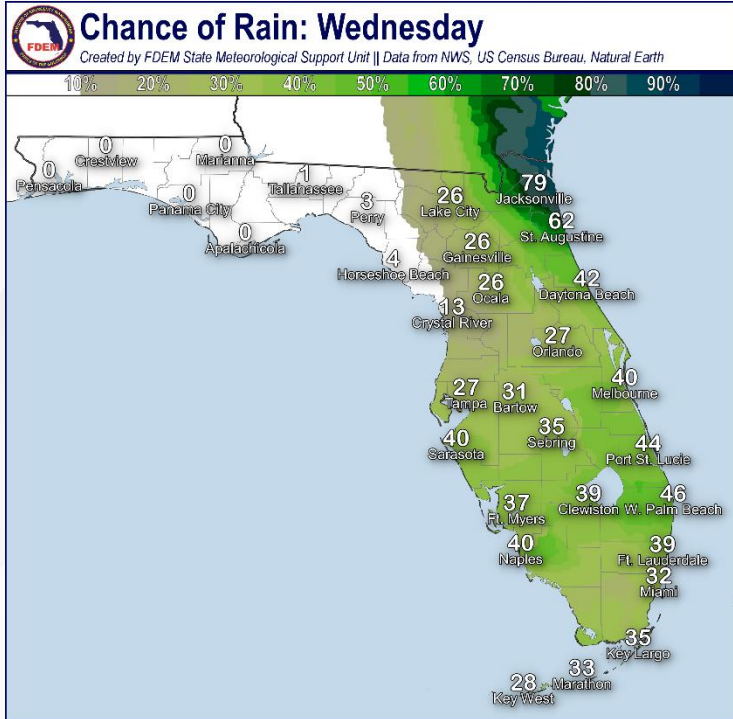


The Weather Prediction Center (WPC) is outlooking a **Marginal Risk (level 1 of 4) for Flash Flooding** from the I-75 corridor and throughout Northeast Florida and into northern Central Florida where tropical moisture surrounding Debby will allow for showers and thunderstorms to develop, bringing additional rainfall to areas that have already seen several inches over the last 2-4 days. Any additional rainfall may **exacerbate the potential for additional flooding**.



Recovery Weather - Wednesday

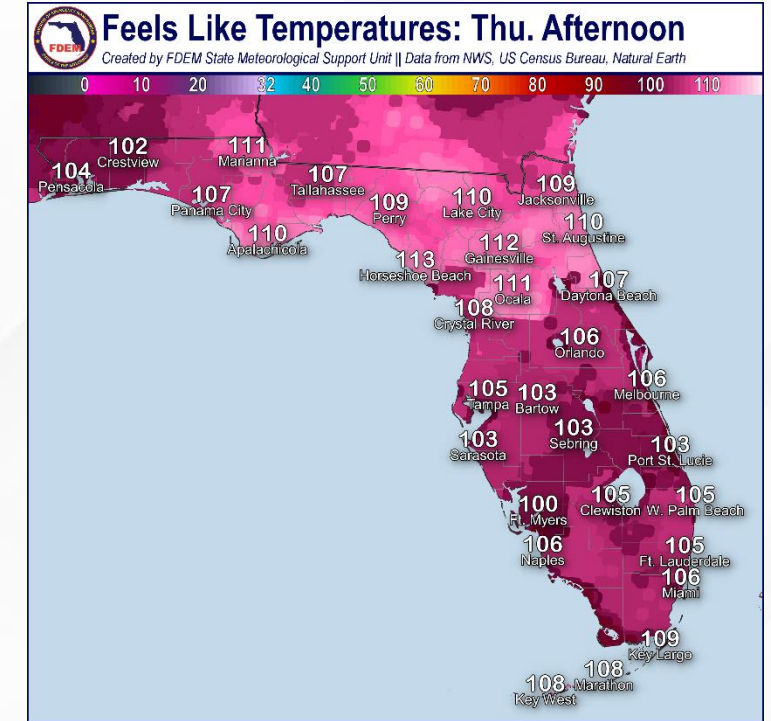
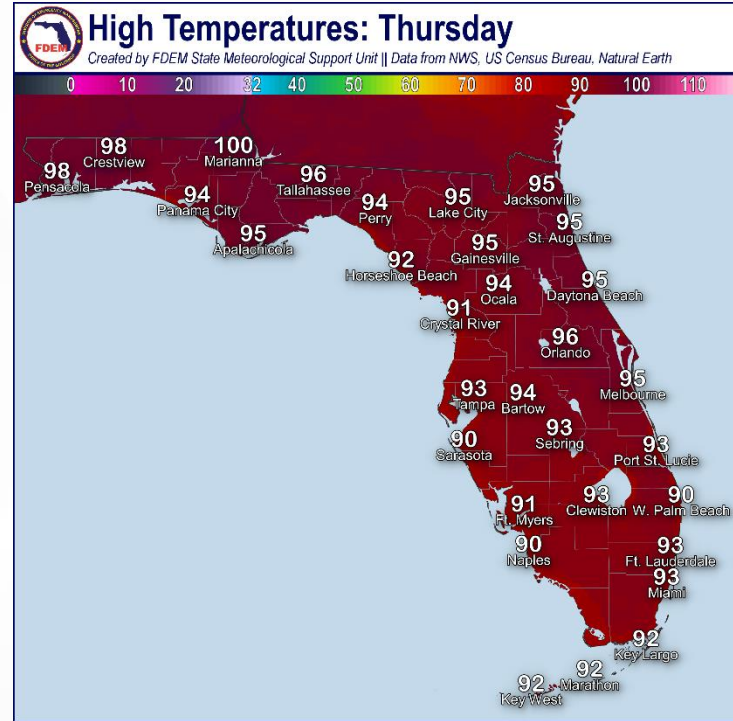
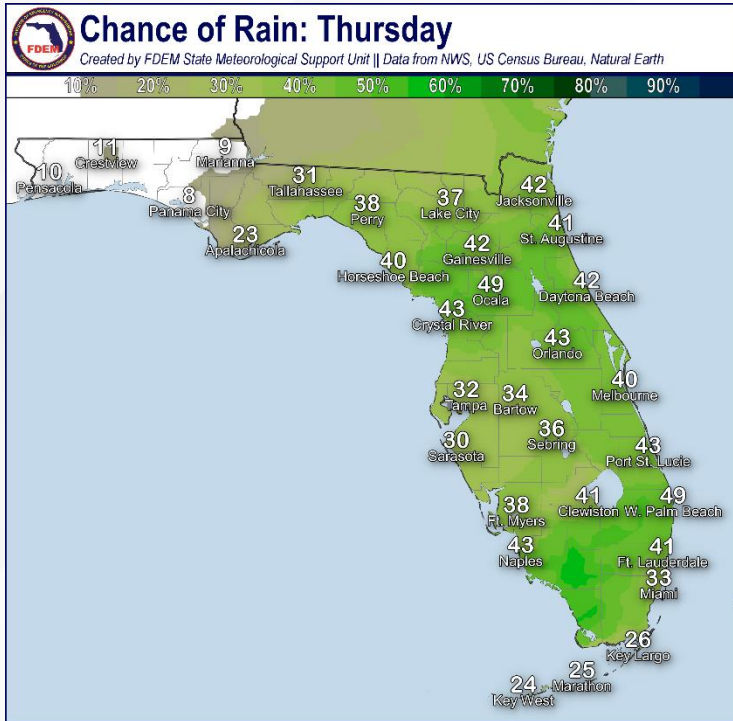
Rain Chances, High Temperature & Feels-Like Temperature





Recovery Weather - Thursday

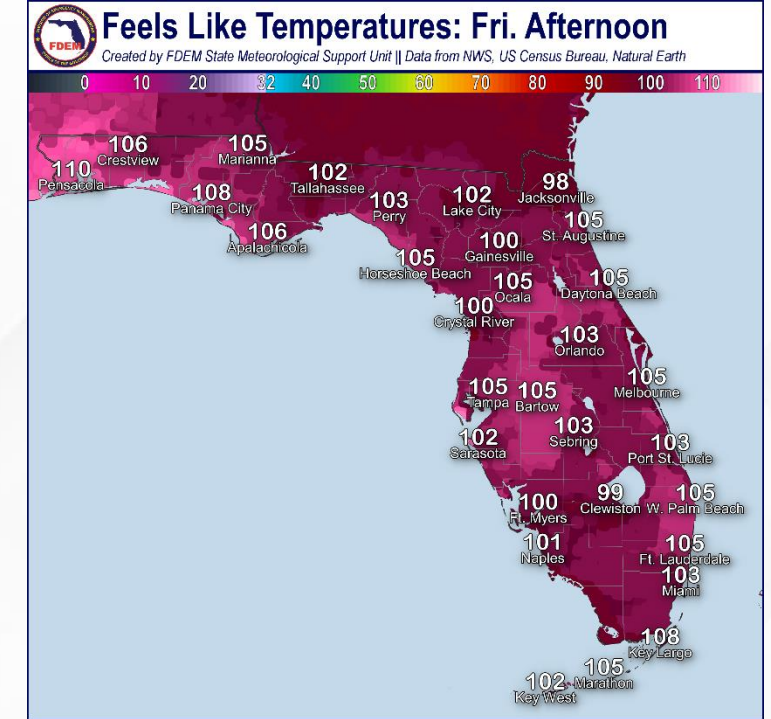
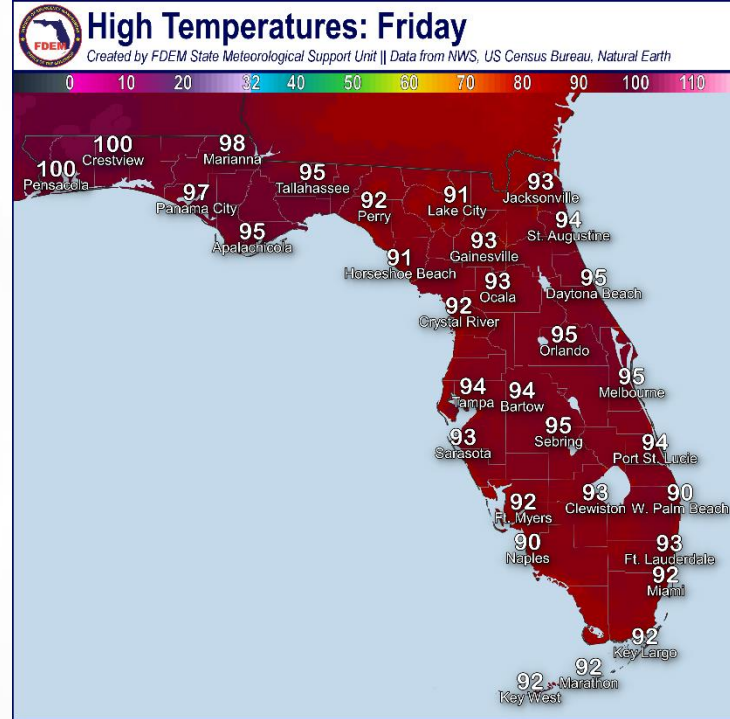
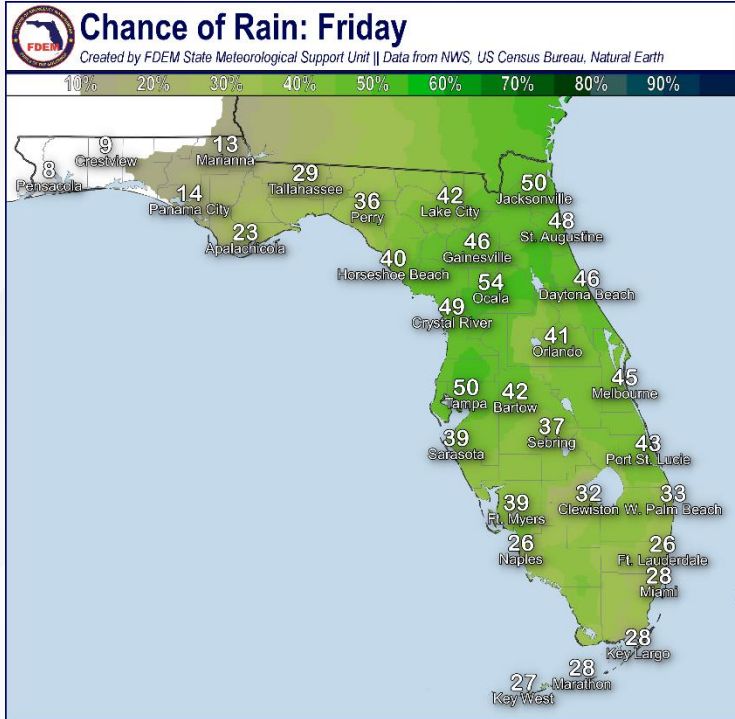
Rain Chances, High Temperature & Feels-Like Temperature





Recovery Weather - Friday

Rain Chances, High Temperature & Feels-Like Temperature

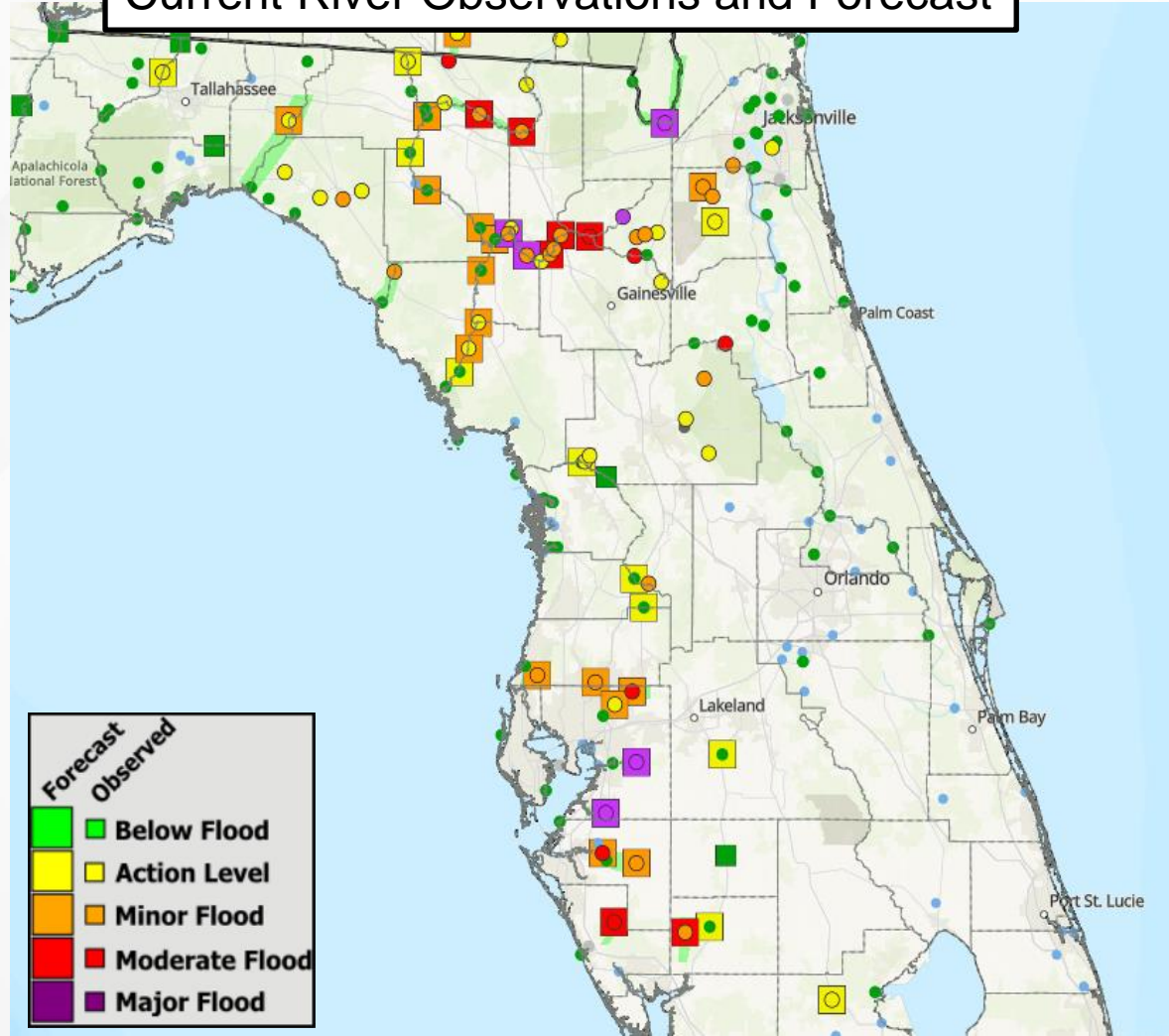




Riverine Flooding

Chance of River Flooding Based on Range of Forecast Rainfall

Current River Observations and Forecast



Rainfall continues to deposit into the rivers, creeks and waterways across the Florida Big Bend, Northeast Florida and West-Central Florida following Debby. Numerous **River Flood Warnings** remain in effect due expected riverine flooding. **Moderate to major flooding** is ongoing for portions of the Myakka, Manatee, Alafia, Hillsborough, Santa Fe and upper Suwannee River Basins. **Minor to moderate flooding** is expected along the lower Suwannee, Cypress Creek, Anclote, Aucilla and Withlacoochee Rivers. **Additional River Flood Warnings** may be issued in the coming days depending on any additional rainfall and rises in water levels. Water will continue to flow downstream through the basins.



River Flood Warnings

From the National Weather Service

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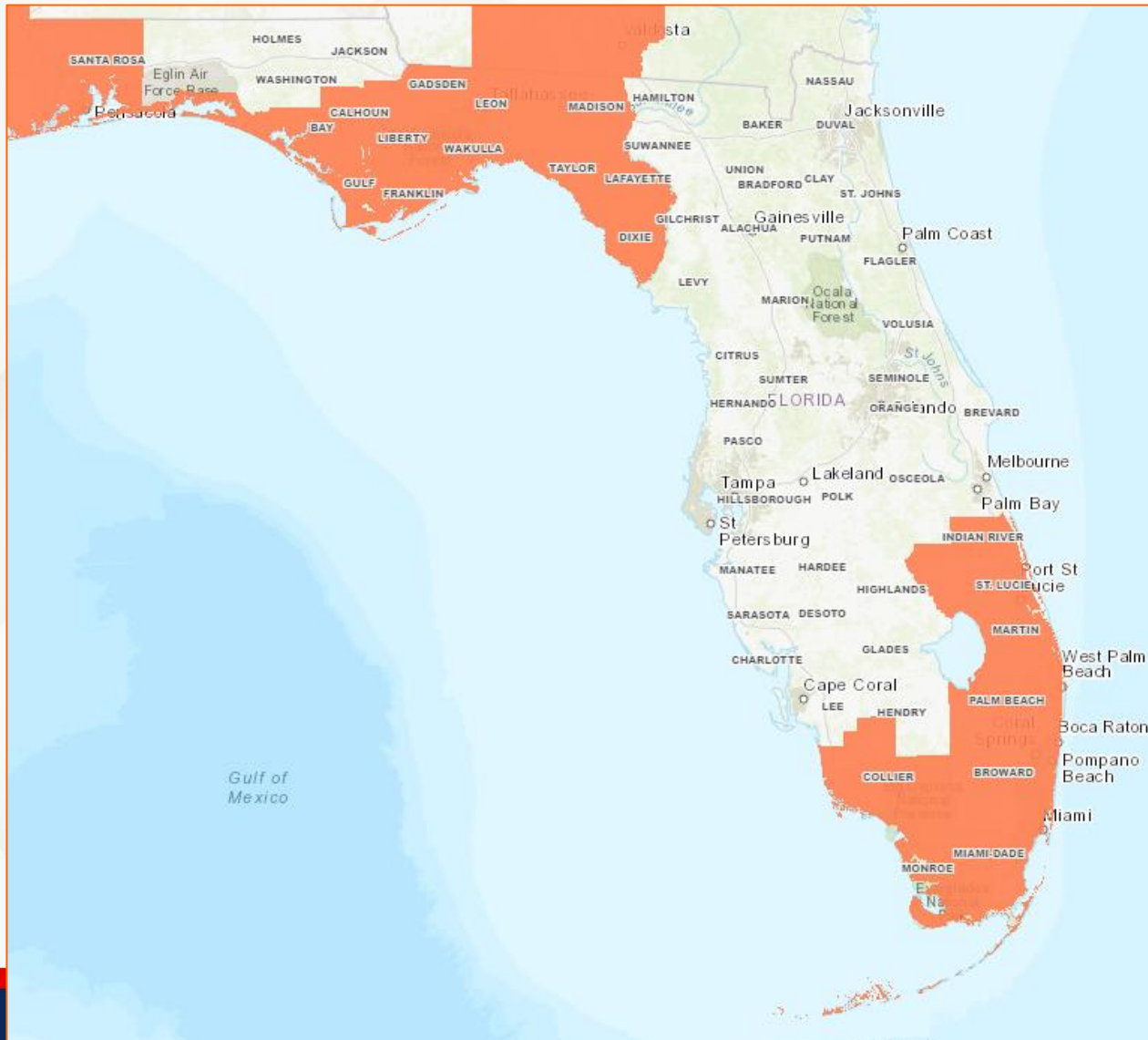
River Gauge	County(ies) Affected	Current Level	Crest Level	Record Level	Status	Crest Date	Warning Expires Date
Alafia River at Lithia Pinecrest Road at Lithia	Hillsborough	Major: 19.80 ft	Major: 20.17 ft	28.50 ft	Falling	7-Aug	0000 EDT 8-Aug
Anclote River near Elfers at Little Road	Pasco	Minor: 20.80 Ft	Minor: 20.80	27.70 ft	Cresting	7-Aug	0000 EDT 8-Aug
Aucilla River at Lamont	Madison, Jefferson, Taylor	Action: 52.39 ft	Minor: 54.30 ft	58.80 ft	Rising	8-Aug	Until Further Notice
Cypress Creek at SR-54 Worthington Gardens	Pasco	Minor: 9.05 ft	Minor: 9.90 ft	13.80 ft	Rising	10-Aug	Until Further Notice
Hillsborough River near Zephyrhills at State Park	Hillsborough	Minor: 12.90 ft	Moderate: 13.5 ft	15.30 ft	Falling	6-Aug	0000 EDT 8-Aug
Hillsborough River at Morris Bridge	Hillsborough	Action: 31.26 ft	Minor: 32.40 ft	32.90 ft	Rising	9-Aug	Until Further Notice
Horse Creek near Arcadia at SR 72	DeSoto	Minor: 13.93 ft	Moderate: 14.50 ft	21.20 ft	Rising	9-Aug	Until Further Notice
Little Manatee River at Mimauma at US 301	Hillsborough	Major: 17.20 ft	Major: 19.47 ft	20.10 ft	Falling	6-Aug	0000 EDT 8-Aug
Manatee River at Rye Bridge	Manatee	Moderate: 12.70 ft	Major: 20.12 ft	20.12 ft	Falling	5-Aug	0000 EDT 8-Aug
Manatee River near Myakka Head at SR 64	Manatee	Minor: 14.10 ft	Major: 19.16 ft	20.90 ft	Falling	5-Aug	0000 EDT 8-Aug
Myakka River at Myakka River State Park	Sarasota	Moderate: 9.66 ft	Moderate: 10.40 ft	12.80 ft	Rising	8-Aug	Until Further Notice
North Fork Black Creek near Middleburg	Clay	Minor: 16.80 ft	Moderate: 20.13 ft	27.90 ft	Falling	6-Aug	0200 EDT 8-Aug
Santa Fe River at Fort White	Gilchrist, Columbia	Minor: 23.28 ft	Major: 31.60	35.40 ft	Rising	10-Aug	Until Further Notice
Santa Fe River at Three Rivers Estates	Gilchrist, Suwannee, Columbia	Minor: 17.12	Major: 26.10 ft	33.40 ft	Rising	14-Aug	Until Further Notice
Santa Fe River at Worthington Springs	Alachua, Union	Moderate: 64.80 ft	Moderate: 65.28 ft	71.20 ft	Cresting	7-Aug	Until Further Notice
Santa Fe River near High Springs	Alachua, Columbia	Minor: 35.59 ft	Moderate: 44.10 ft	48.50 ft	Rising	9-Aug	Until Further Notice
Santa Fe River near O'Leno State Park	Alachua, Columbia	Minor: 51.43 ft	Moderate: 53.39	57.10 ft	Rising	8-Aug	Until Further Notice
St. Mary's near Macclenny	Baker, Nassau	Major: 19.70	Major: 19.71	24.40 ft	Cresting	8-Aug	Until Further Notice
Suwannee River at White Springs	Hamilton, Suwannee, Columbia	Minor: 78.69 ft	Moderate: 80.00 ft	87.70 ft	Rising	9-Aug	Until Further Notice

For more details on the hydrographs as well as impact statements, click the links for each river gauge.



Hot & Humid Conditions

From the National Weather Service (NWS)



Heat index values, or feels-like temperatures, will climb into **triple digits nearly statewide** this afternoon courtesy of dangerously hot and humid conditions. **Heat Advisories** remain in effect through late today across portions of the Florida Panhandle, Big Bend and South Florida as hot and humid conditions will create **heat index values of 105-110-degrees** throughout the afternoon.

It should be noted that several of these counties within the Heat Advisories are ones that were impacted by Debby, which could make clean-up/response activities more difficult for those without power or AC.

Please remember to practice heat safety when outdoors including, taking breaks from direct sunlight when you can, wear loose fitting clothing and drink plenty of water.



Summary

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Tropical Storm Debby:

- As of 2:00 PM EDT, Debby was located about 55 miles east-southeast of Charleston, South Carolina and moving northeastward at 60 mph.
- A generally northward motion is expected later today, bringing the center to the South Carolina coast on Thursday morning.
- After crossing the coast, a faster motion toward the north and north-northeast across the Carolina's and U.S. Mid-Atlantic states is expected on Thursday and Friday.
- Maximum sustained winds are near 60 mph with higher gusts and some strengthening is possible today or tonight before the center of Debby reaches the coast of South Carolina.
- Weakening is forecast to begin on Thursday after the center moves inland.

Florida Outlook:

- Over the past 72 hours, Debby has produced a widespread swath of 5-8" of rainfall along the Florida Gulf Coast and into the Suwannee River Valley, with locally higher amounts of 8-10" measured over the inland Florida Big Bend and south of Tampa Bay. The highest rainfall totals of 10-14" occurred over portions of Charlotte and Sarasota Counties and over the inland Florida Big Bend (mainly west of the I-75 corridor). With now localized rainfall totals in excess of 14-16" observed over the interior Suwannee River Valley (Suwannee, Columbia, Hamilton).
- **River Flood Warnings** have been issued across numerous North and West Florida Rivers they have reached or are forecast to reach moderate to major flood stage with several others forecast to reach minor flood stage.
 - Additional River Flood Warnings will be possible over the next several days as water filters through the basins into the rivers and waterways and further downstream; and updates to existing riverine flooding forecasts can be expected.
- Heat index values in the triple digits can be expected nearly statewide this afternoon.
 - **Heat Advisories** are in effect through this evening across the Florida Panhandle, Big Bend and South Florida where **heat index values of up to 110-degrees are expected**.
 - When outdoors and helping with response efforts, please make sure to practice heat safety. Be sure to take breaks from direct sunlight, wear loose fitting clothing and drink plenty of water.
- The Weather Prediction Center (WPC) is outlooking a Marginal Risk (level 1 of 4) for Flash Flooding across Northeast Florida and southward into northern Central Florida where scattered showers and thunderstorms developing throughout the afternoon and evening could bring additional rainfall over recently saturated grounds and soils post-Debby could bring additional flooding.
 - Grounds and soils are very saturated following heavy rainfall before and after landfall, and any additional rainfall may **exacerbate the potential for additional flooding**.
 - Any heavy downpours over urban and low-lying/poor drainage areas could bring **instances of flash flooding**.
- Locally strong to severe thunderstorms producing frequent lightning, gusty winds (40-50 mph) and heavy downpours cannot be ruled out during peak heating hours of the day.

The next briefing packet will be issued Thursday. For the latest information, please visit the [National Hurricane Center website](#).



Tropical Update

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Florida Division of Emergency Management

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