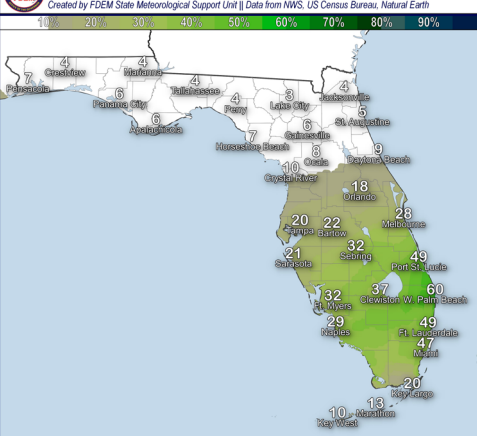


Tuesday, May 14, 2024

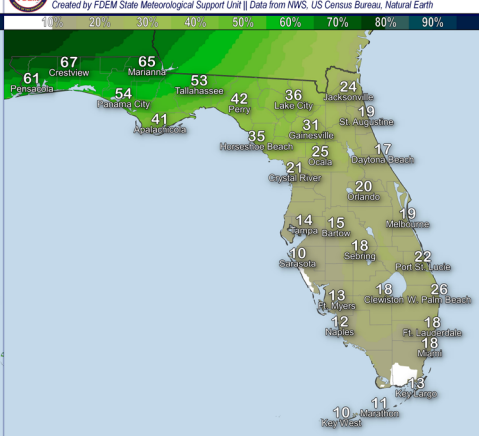
5-Day Statewide Weather Outlook

No Threat		Low Threat		Moderate Threat		High Threat		
Day	Lightning	Tornado	Damaging Wind	Hail	Flash Flooding	Excessive Heat	River Flooding	Rip Currents
Tue	N & Central Peninsula Statewide	Locally Iso. North & Central FL	Locally North & Central FL	Locally Iso. North & Central FL	Big Bend & N-Peninsula N & Central FL	Locally Peninsula & Keys	Locally Iso. North FL	Panhandle, CW & SE Coast East Coast
Wed	Central FL Statewide	Central FL S of I-10 to N or Lake O	S of I-10 to N or Lake O	Central FL S of I-10 to N or Lake O	N & Central Peninsula	Locally Central & South FL & Keys	Locally Iso. North FL	Panhandle & W-Coast East Coast
Thu	Locally South FL				Iso. Far W-Panhandle	Locally Central & South FL & Keys	Big Bend Iso. North FL	Panhandle & W-Coast East Coast
Fri	Locally North FL	North FL	Locally North FL	North FL	Panhandle Big Bend	Locally Central & South FL & Keys	Big Bend Iso. North FL	Panhandle & W-Coast East Coast
Sat	Locally North & Central FL	Locally Iso. North & Central FL	Locally Iso. North & Central FL	Locally Iso. North & Central FL	Locally North Florida & South to I-4	South FL & Keys Peninsula	Big Bend & Suwannee Valley	Panhandle & W-Coast East Coast

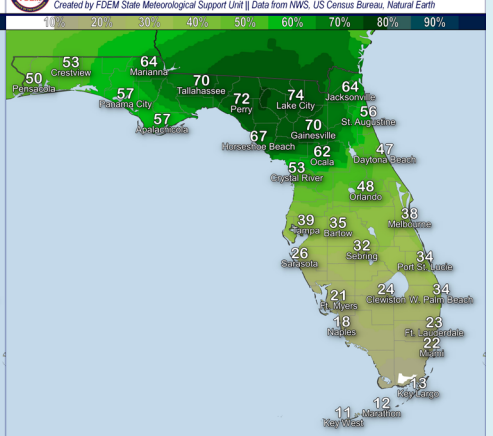
Chance of Rain: Thursday



Chance of Rain: Friday

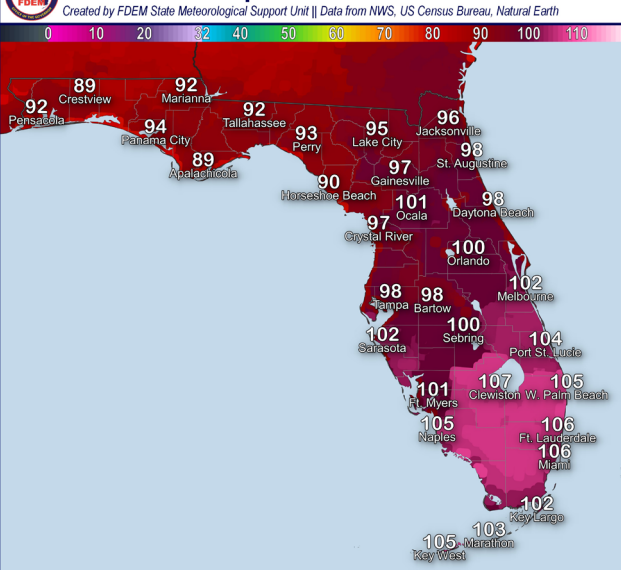


Chance of Rain: Saturday

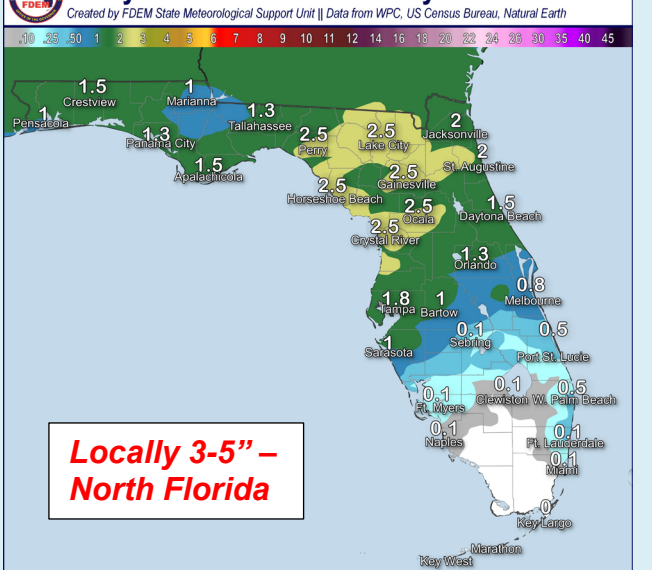


Chance of Rain: Thursday, Friday, & Saturday

Feels Like Temperatures: Sat. Afternoon



5-Day Rainfall Totals: Tuesday



Forecast Afternoon Feels Like Temperatures: Saturday

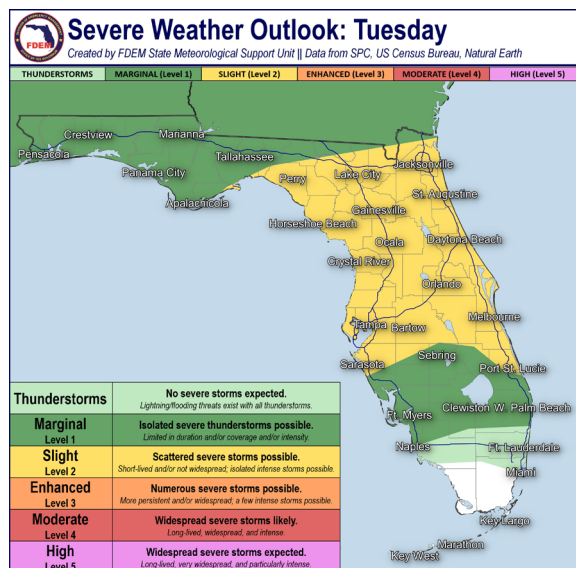
Forecast Rainfall Totals: Through Saturday Evening



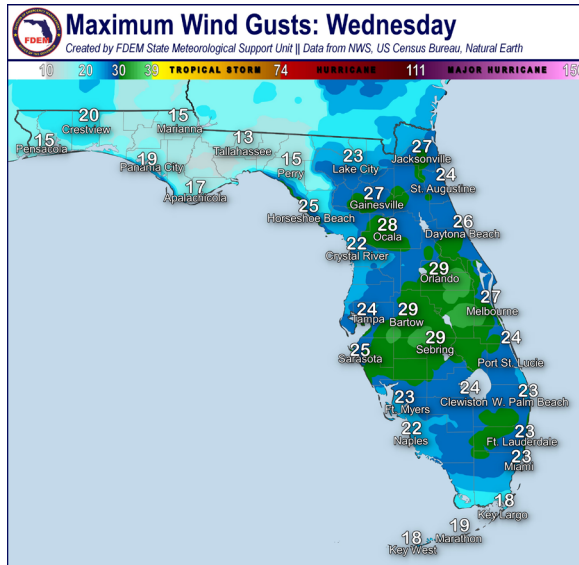
...Scattered Showers and Thunderstorms Linger Through the Peninsula This Afternoon...Isolated Strong to Severe Thunderstorms Cannot Be Ruled Out...Showers and Thunderstorms Across the Peninsula Along and Ahead of A Frontal Boundary Wednesday...Marginal Risk to Slight Risk For Severe Weather and Marginal Risk for Flash Flooding Along the Northern and Central Peninsula...Isolated Damaging Wind Gusts, An Isolated Tornadoes, Isolated Instances of Hail, and Localized Heavy Downpours Possible...Drier Conditions Return Thursday Along With Sensitive to Locally Elevated Wildfire Conditions Across Interior Central Florida...Rain Chances Return Friday and Saturday With The Next Low-Pressure System...Marginal to Slight Risk For Flash Flooding Along Florida Panhandle Friday and Marginal Risk Across North Florida Saturday...Strong to Severe Thunderstorms Possible...Breezy Winds Persist Statewide Outside of Thunderstorms, Calming Thursday and Friday Before Re-Strengthening Saturday...Moderate to High Risk for Rip Currents Nearly Statewide Over the Next 5 Days...Numerous Rivers and Waterways Across North Florida Forecast to Rise Into Action Stage Over the Next 5 Days; Several Already Elevated Rivers May Reach Minor Flood Stage...

Tuesday – Thursday:

The active mid-week weather pattern will largely persist for portions of the Sunshine State through Thursday as a cold front gradually progresses southeastward. A line of strong to severe thunderstorms, currently residing along the I-4 corridor, will continue to propagate eastward through the day. The stronger, more organized thunderstorms will be capable of producing locally damaging wind gusts (45-65 mph, isolated wind gusts reaching 70 mph possible), frequent lightning, heavy rainfall rates, instances of hail (1" in diameter, or quarter-size), and an isolated tornado or two. As we enter the peak daytime heating hours, the Atlantic East Coast sea breeze will advance onshore, promoting the development of additional showers and thunderstorms along the I-95 corridors of the Space and Treasure Coasts later this afternoon and evening. A few stronger thunderstorms will be possible, prior to sunset. The Storm Prediction Center (SPC) has maintained a **Slight Risk (level 2 of 5) for Severe Weather** for portions of the Florida Peninsula, mainly along and north of the I-4 corridor, with a **Marginal Risk (level 1 of 5)** extending south of Lake Okeechobee to Alligator Alley (South Florida I-75). Outside of thunderstorms, breezy conditions will be possible nearly statewide with wind gusts reaching 20-30 mph over portions of the Florida Gulf Coast and the immediate Southeast Florida Coast. Winds look to gradually taper off through the evening and overnight hours as the multi-round severe weather systems progress out of the region. Even despite the rain and cloud cover, high temperatures this afternoon will reach the lower to middle 80s over North Florida, the upper 80s to lower 90s across Central and South Florida, with interior Peninsula locations reaching near the middle to upper 90s. Muggy and humid conditions will allow temperatures to **feel like the triple digits (98 to 104-degrees)** along and south of the I-4 corridor, including the Florida Keys.

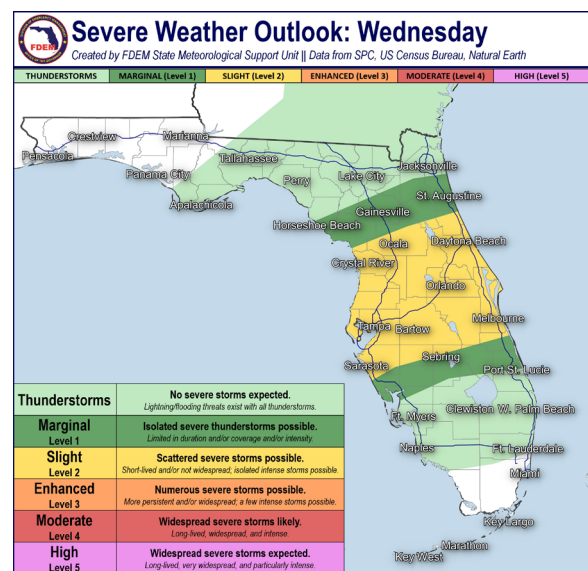


As the frontal system nudges along the Florida Panhandle tonight, additional showers and embedded thunderstorms may look to redevelop along and ahead of the cold front; this “cold” front will not do much in terms of temperature reprieve, but it will allow for some drier conditions to filter in its wake along the I-10 corridor. Rain chances will return to the Florida Big Bend, Suwannee River Valley, and localities north of the I-4 corridor tonight into Wednesday morning; the greatest rain chances (70-85% chance) will reside across the Florida Big Bend, North-Central Florida, and Northeast Florida region. Additional rounds of heavy shower and thunderstorm activity may lead to instances of **flooding and ponding water** across low-lying/poor drainage and urban areas, particularly for locations that experienced heavy rainfall in recent days. A few thunderstorms overnight into early Wednesday morning could become organized over North Florida and pose the risk of gusty winds; however, interaction with lingering sea breeze thunderstorms may work to limit the threat of severe development. Low temperatures will remain mild in the upper 60s to lower 70s across North Florida, the lower to middle 70s throughout Central Florida, and the upper 70s to lower 80s in South Florida.



Early morning showers will be ongoing across portions of the northern Florida Peninsula Wednesday, setting the stage for more widespread coverage of shower and thunderstorm activity through the day. Thunderstorms developing along and ahead of the cold front can be expected through the daytime hours, with the highest rain chances expected from Northeast Florida through the I-4 corridor (75-85% chance of rain). Isolation **strong to severe thunderstorms** will be possible, and the SPC has outlooked a **Marginal Risk (level 1 of 5) for Severe Weather** for portions of Central Florida, with a newly introduced **Slight Risk (level 2 of 5)** residing near and along the I-4 corridor. The stronger, more organized thunderstorm activity may be capable of producing gusty winds (50-70 mph), frequent lightning, heavy rainfall, and instances of hail. A tornado or two cannot be ruled out, particularly within colliding thunderstorms. Additional rainfall Wednesday may lead to instances of **flooding and ponding water**; the Weather Prediction Center (WPC) maintains a **Marginal Risk (level 1 of 4) for Flash Flooding** for portions of North-Central Florida in anticipation of the cold front slowly to nearly a stall along the I-4 corridor. While rainfall over interior East-Central Florida is desperately welcomed, it will take multiple rounds of heavy rain to yield flooding concerns (away from urbanized communities and flood-prone locations). Temperatures continue to trend upwards statewide, with afternoon highs in the upper 80s to middle 90s. Abundant moisture

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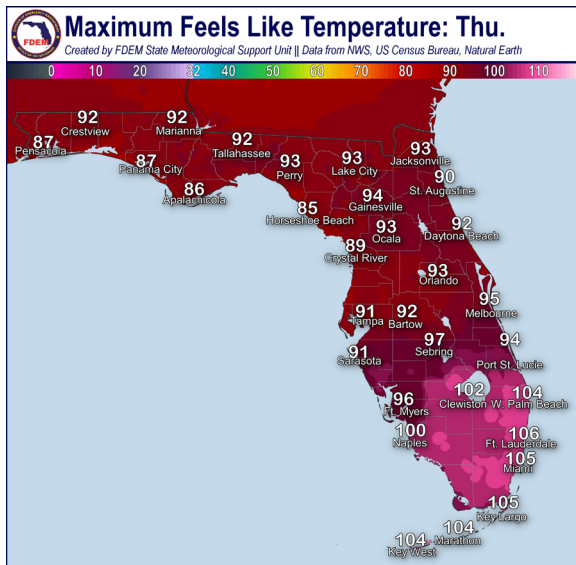


will allow for **heat index values to reach the triple digits (98 to 106-degrees)**; **Heat Advisory criteria** may be achieved along the Florida Keys for periods of the daytime heating hours, *the Advisory will be issued as conditions warrant.*

Rain chances become increasingly sporadic through the Wednesday evening and overnight hours south of the I-4 corridor (25-35% chance of rain), with low temperatures remaining mild in the upper 60s across North Florida, the 70s into the Florida Peninsula, and the upper 70s to lower 80s for South Florida and the Keys.

Another day influenced under the stalled frontal system will lead to elevated rain

chances for portions of Central and South Florida Thursday; however, shower and embedded thunderstorm coverage will not be as widespread in the previous days (35-45% chance of rain). While there is no organized risk for severe weather, a few stronger thunderstorms capable of producing lightning and gusty winds cannot be ruled out during the daytime heating hours. A drier, but certainly not cooler, air mass filters on the north side of the frontal system leading to near-zero rain chances and abundant sunshine for North Florida. Afternoon high temperatures reach the lower to middle 90s statewide, with only a few coastal locations topping out in the middle to upper 80s. **Heat Advisory criteria** is nearly reached once again for South Florida has **temperatures will feel like 100 to 106-degrees** during the peak heating.



Rain chances will subside after sunset through the evening hours, leaving only a lingering coastal shower near the Southeast Florida coastline (10-20% chance of rain). Muggy conditions will keep temperatures in the upper 60s to 70s Thursday night, with some South Florida localities remaining above the 80-degree mark. As we enter the early Friday morning hours, rain chances will begin to rise over the western Florida Panhandle (30-40% chance of rain) as we monitor our next weather system developing along the Central Gulf Coast.

Friday – Saturday:

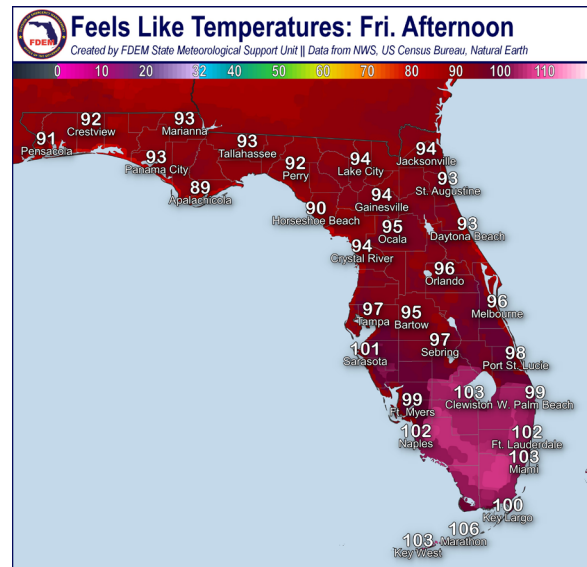
An upper-level weather system will continue to approach the Florida Panhandle on Friday, bringing our next chance for showers and thunderstorms into the weekend. The environment could support strong to severe thunderstorms with gusty and locally damaging wind gusts being the main concern, isolated tornadoes, and hail. While there is no risk outlooked by the Storm Prediction Center (SPC) this afternoon, an area could be introduced Wednesday and Thursday as forecast details become clearer. The heavy rainfall threat will work its way back into the forecast as the Weather Prediction Center (WPC) is outlooking a **Slight Risk (level 2 of 4) for Flash Flooding** along the Florida Panhandle to approximately the US-231 corridor, with a **Marginal Risk (level 1 of 4)** extending through the Capital City. These locations are already sensitive to rainfall, given saturated soils; instances of **flash flooding** cannot be ruled out with this next weather system as rainfall totals over the past 7 days are already in excess of 5-8” above normal for this time of year. The highest rain and thunderstorm chances will span the Florida Panhandle (40-65% chance of rain), with more isolated chances stretching further east into the Suwannee River Valley (35% chance of rain). Strong southerly winds will develop along



and ahead of this weather system, with wind gusts of 15-30 mph returning to portions of North Florida mid to late Friday morning. Warm afternoon high temperatures can be expected once again on Friday, with temperatures topping out in the upper 80s to middle 90s. **Feels-like temperatures** climb to **99 to 106-degrees** over portions of West-Central and South Florida Friday afternoon.

Rain and thunderstorm chances will linger across North Florida Friday night into Saturday (35-45% chance of rain), setting the stage for more widespread rain chances this weekend. Low temperatures will remain well into the 70s statewide, with South Florida and the Keys remaining above the 80-degree threshold.

Another day of numerous to widespread showers and thunderstorms can be expected on Saturday, with rain chances now beginning to spread south of the I-4 corridor Saturday afternoon. The greatest chance of rain and thunderstorm activity will reside over the eastern Florida Panhandle, the Big Bend, and Suwannee River Valley (70-75% chance of rain), with more scattered chances expected over the western Florida Peninsula and to Central Florida (35-55% chance of rain). The severe thunderstorm potential may extend into Saturday across North Florida; however, there is too much uncertainty regarding the evolution of this thunderstorm threat, especially being contingent on the nature of Friday's activity. Regardless, stronger and more organized thunderstorm activity may pose the risk of strong wind gusts, lightning, heavy rainfall, and isolated hail. Afternoon high temperatures alone begin to approach the **triple digits** for several interior Florida Peninsula locations (**96 to 98-degrees**). Muggy and humid conditions will lead to **critical Heat Advisory criteria** Saturday afternoon, with **feels-like temperatures reaching 98 to 102-degrees** through Central Florida and **102 to 108-degrees** through South Florida and the Keys. **Heat Advisories** will likely be issued closer to the weekend.

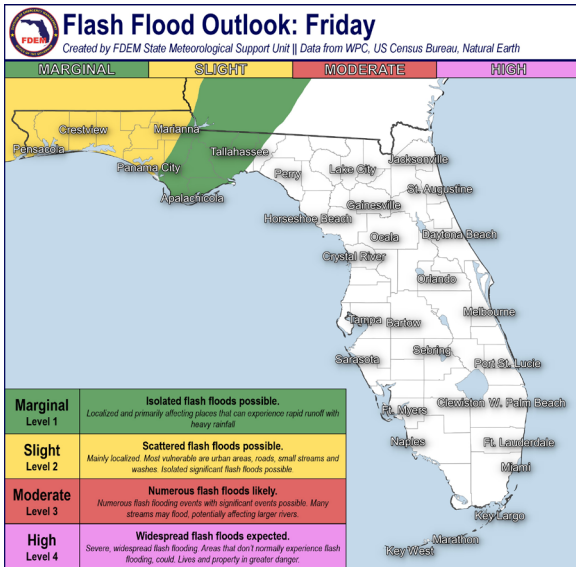


Rain chances will become increasingly isolated through the Saturday evening and overnight hours (25-40% chance of rain). Muggy conditions will keep temperatures in the upper 60s to 70s Thursday night, with some South Florida localities remaining above the 80-degree mark.

Hydrology & Flooding:

Despite dissipating activity, the Weather Prediction Center (WPC) has maintained a **Marginal Risk (level 1 of 4)** along the Big Bend coastline and the Northern Peninsula as instances of **flooding** and **ponding of water** continue to be possible with any additional heavy rainfall, especially over already saturated grounds, urban areas, and low-lying/poor drainage areas. Drier post-frontal air will give way to more pleasant conditions across North Florida Wednesday with only a few isolated showers and thunderstorms lingering in the morning hours. The frontal boundary will make its way southward through the Northern Peninsula Wednesday afternoon before stalling over Central Florida, yielding scattered to numerous showers and thunderstorms across the Northern and Central Peninsula through the morning and early afternoon hours. WPC is outlooking a **Marginal Risk for Flash Flooding** from south of I-10 to north of Lake Okeechobee as training activity over already



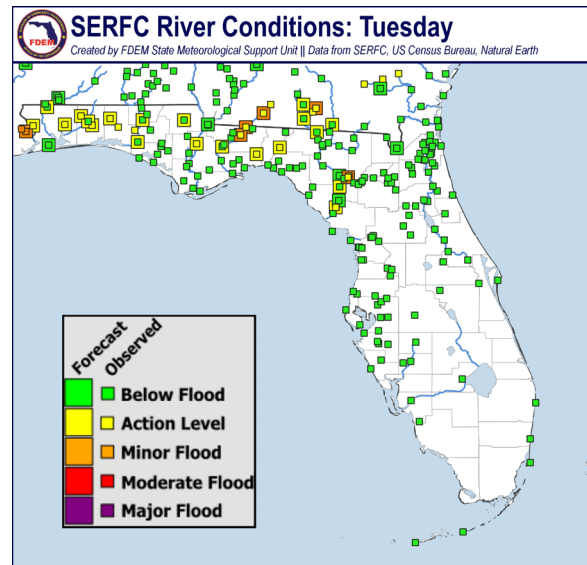


saturated grounds may give way to localized instances of **flooding** and **ponding of water**. Flooding is not anticipated Thursday with high pressure temporarily building in from the west providing some relief from the wet weather pattern. Rain chances return Friday and Saturday with the next low-pressure system approaching from the west producing scattered to numerous showers and thunderstorms across the Florida Panhandle Friday and North Florida Saturday. WPC is outlooking a **Slight Risk for Flash Flooding** along the Panhandle with a Marginal Risk extending through the Big Bend Friday and a **Marginal Risk** across North Florida and south to I-4 Saturday. These areas will be sensitive to additional rainfall over already saturated soils. Abundant moisture ahead of the system combined with multiple rounds of showers and thunderstorms may give way to instances of **flooding**

and **ponding of water**, especially over urban and low-lying/poor drainage areas. Widespread rainfall totals over the next 5 days is expected to be near 1-3" with **locally higher totals** of 3-5" possible across North Florida. The rest of the state will likely see rainfall totals remain near or below 1-3" over the next 5 days. For the latest Flash Flood Outlooks, please visit the [Weather Prediction Center](#).

Portions of several Big Bend and Suwannee Valley rivers (including several portions of the Suwannee River) remain in Action Stage (bank-full). Numerous additional rivers and waterways across North Florida have begun to rise into Action Stage in response to heavy rainfall across the basins yesterday and today. Already elevated rivers and waterways along the Big Bend and Suwannee River may see water levels rise into **Minor Flood Stage**, including the Ochlocknee River [near Concord](#) and [near Havana](#) and the [Santa Fe River at Three Rivers Estates](#). Further updates can be expected in the coming days as rainfall distributions are analyzed and water runs off into rivers and waterways. For more details, please visit the [River Forecast Center](#).

Lake Okeechobee's average elevation is 13.72 feet, which is within the operational band and 0.40 feet above normal. Lake elevations have fallen approximately 0.30' over the past week and approximately 1.18' over the past 30 days. Above normal temperatures and near-normal rainfall across South and Central Florida over the next 5 days will likely allow water levels to hold steady or continue falling.



Drought & Fire Weather:

Dry conditions and above normal temperatures have generally persisted statewide over the last week under the influence of high pressure, leading to further decreases in streamflows and soil moisture. As a result, **Abnormally dry (emerging drought)** and **Moderate Drought** conditions have expanded across portions of North and Central Florida on this week's [Drought Monitor](#) update.

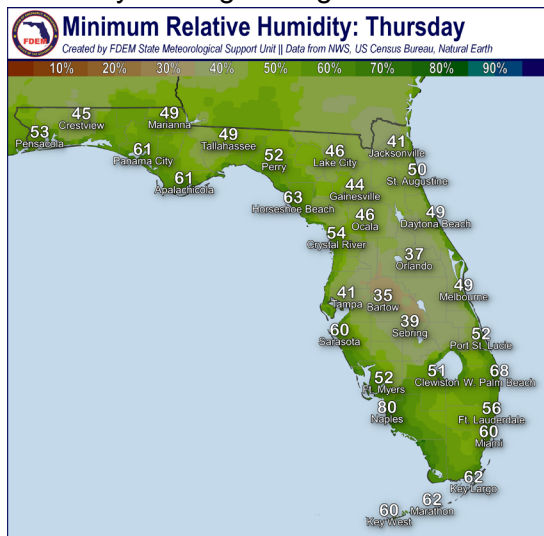
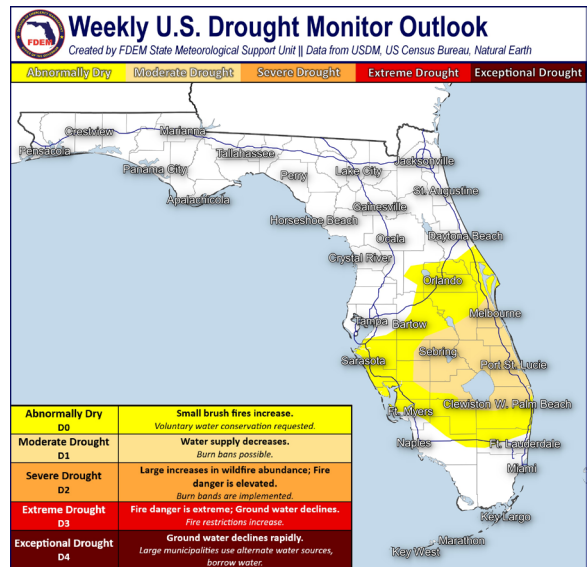
Abnormally dry conditions have expanded further northward and southward and now stretch from just north of the I-4 southward to the I-75. **Moderate Drought** are now present north of Lake Okeechobee to Sebring and Melbourne, east of the lake to the East Coast, West of the lake to Hardee



and DeSoto County, and along southern portions of the lake as short-term rainfall deficits continue to increase. 60-day rainfall deficits have reached 3-6" below normal across much of the drought-stricken region. Widespread rainfall expected across the state over the next 5 days may help to improve short-term rainfall deficits and provide some relief from drought conditions.

The [Keetch-Byram Drought Index](#) average for Florida is **393 (+9)** on a scale from 0 (very wet) to 800 (very dry). There are **13** Florida counties (Brevard, Broward, Charlotte, DeSoto, Glades, Hardee, Highlands, Indian River, Manatee, Martin, Okeechobee, Sarasota and St. Lucie) with an average KBDI over 500 (drought/increased fire danger).

Above normal temperatures and near to just above normal rainfall are expected to develop across the Peninsula throughout the work week as high-pressure fights to maintain relatively dry conditions across South Florida and another low-pressure system brings scattered to numerous showers and thunderstorms and abundant rainfall to North Florida later in the week. **Breezy wind gusts upwards of 20-35 mph** are possible at times along the Florida Panhandle today with **20-30 mph gusts** along the Peninsula and Keys. Breezy winds with gusts near 20-30 mph will linger across the Peninsula and Keys Wednesday with the frontal boundary stalled over Central Florida, weakening to near 20-25 mph Thursday. Winds will settle further Friday to 5-15 mph statewide with **higher gusts** possible before restrengthening Saturday to 10-20 mph with **higher gusts**. Abundant moisture ahead of the frontal boundary sinking through the Peninsula will generally keep relative humidity values above critical thresholds today and Wednesday with only locally sensitive wildfire conditions possible across interior Central Florida. Drier air will begin to filter southward into interior Central Florida as high pressure builds in temporarily to the west and winds becoming more easterly to northerly. Relative humidity values will fall **near or below critical thresholds (35-45%)** across interior Central Florida Thursday through Saturday, creating **sensitive to locally elevated wildfire conditions** in the afternoons throughout the period. **Locally sensitive wildfire conditions** may also be possible across portions of North Florida that saw locally lower rainfall totals over the last few days as relative humidity values fall **near critical values (40-45%)** Thursday afternoon. According to the [Florida Forest Service](#), there are 46 active wildfires across the state burning approximately 2040 acres (as of 1:35 PM EDT).

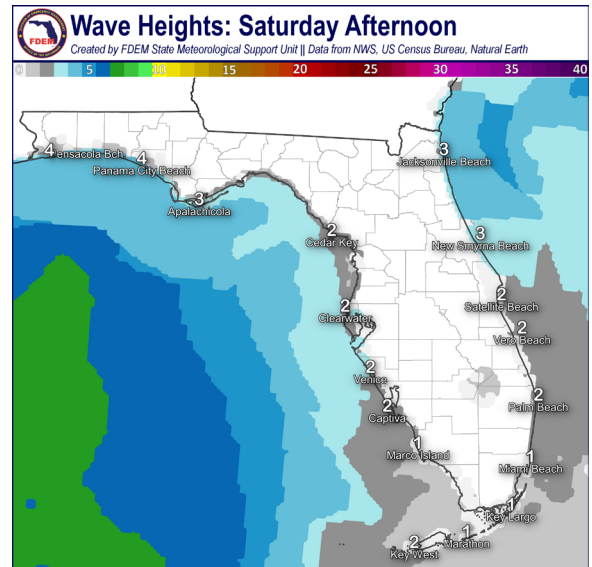


Rip Currents & Marine Hazards:

Breezy winds and long-period swells will generally maintain a **high risk for rip currents** along the Florida Panhandle and West Coast over the next 5 days. A **moderate to locally high risk** is expected to persist along the East Coast. Locally low risks will be possible at times along the West and East Coasts. For the latest Rip Current Outlook, visit www.weather.gov/beach.



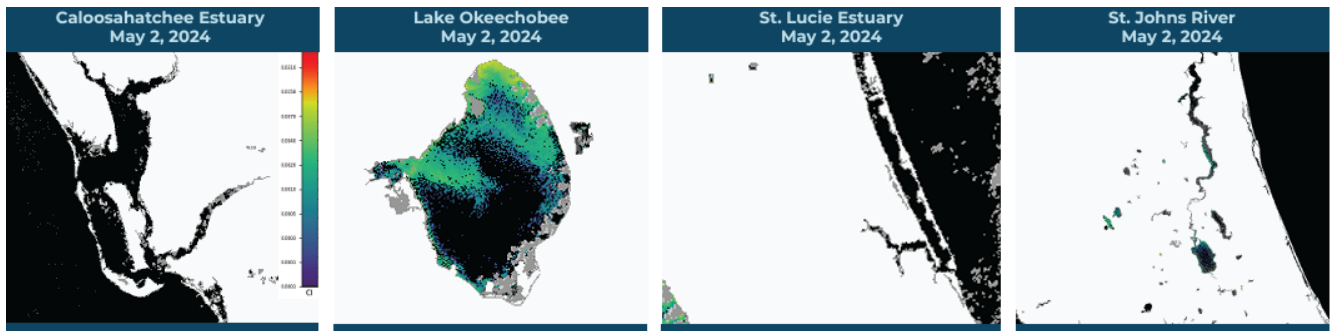
Breezy winds across the state have created swells in the Gulf of Mexico and along the Western Atlantic, raising **wave heights to 3-6'** along the Florida Panhandle and East Coast while all other beaches see wave heights remain at 1-3' this afternoon. Breezy winds and ocean swells will linger Wednesday, maintaining **wave heights** near 3-5' along the Florida Panhandle, East Coast, and West Coast while the Keys remain at 1-3'. Conditions will begin to calm Thursday as winds weaken, allowing wave heights to return to 1-3' statewide through Friday afternoon. As the next low-pressure system pulls a frontal boundary through the state late this week and into the weekend, breezy winds and ocean swells will begin to return, building **wave heights** to 2-5' along the Florida Panhandle, West Coast, and Northeast Coast by Saturday afternoon while all other beaches remain near 1-2'.



Coastal flooding is not expected over the next 5 days.

Red Tide was not observed in samples collected statewide over the past week as of 5/10.

Blue-Green Algae was observed via satellite on 5/2, although slightly obscured by cloud cover, at low to **moderate bloom potential** on approximately 45% of Lake Okeechobee, mostly in the northern half of the lake. Satellite imagery of the St. Johns River from 5/2 showed scattered low to **moderate bloom potential** from Lake George downstream to Orange Park. Satellite imagery also obtained on 5/2 and partially obscured by cloud cover showed no visible bloom potential along the Caloosahatchee Estuary or St. Lucie Estuary.



[NWS Mobile Daily Hazards](#)

[NWS Jacksonville Daily Hazards](#)

[NWS Tampa Daily Graphical Hazards](#)

[NWS Key West Daily Hazards](#)

[NWS Tallahassee Daily Graphical Hazards](#)

[NWS Melbourne Daily Graphical Hazards](#)

[NWS Miami Daily Graphical Hazards](#)

For the official National Weather Service forecast, please click on the following cities:

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[Orlando](#) • [Tampa](#) • [Fort Myers](#) • [West Palm Beach](#) • [Miami](#) • [Key West](#)

[Click here for the latest watches, warnings, and advisories from The National Weather Service](#)

For coastal and offshore forecasts throughout Florida and Georgia, please click [here](#).

Have a wonderful rest of the week!

Caitlyn Gillespie, Deputy State Meteorologist & Melissa James, Assistant State Meteorologist
Florida Division of Emergency Management

www.FloridaDisaster.org/Weather

