

Monroe County Florida Keys Weather Briefing

Combination Locally Heavy Rainfall & King Tide Flooding

Issued: October 7, 2025 – 11:00 am EDT

This weather briefing is for emergency management and critical infrastructure core partners serving the Florida Keys of Monroe County.

A Coastal Flood Advisory is in effect for all of the Florida Keys.

Key Messages:

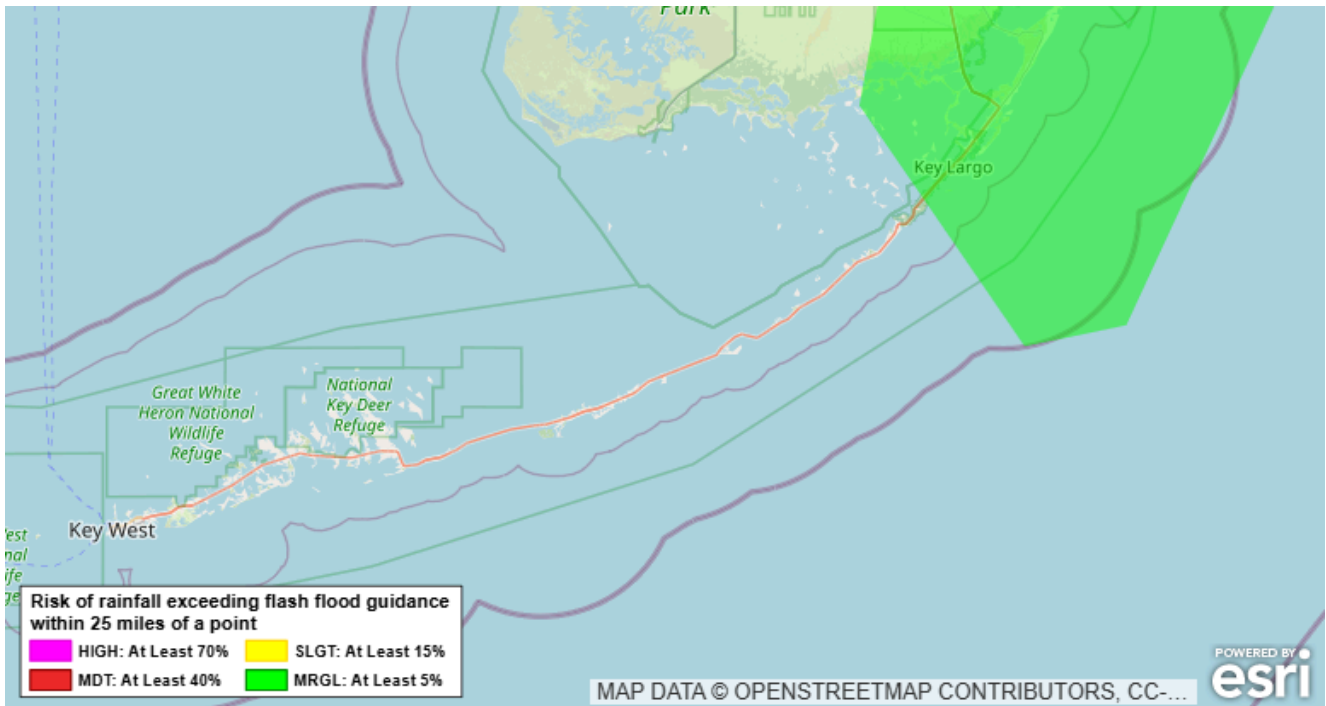
- The combination of a higher-than-normal autumn spring tide (a.k.a. “king tide”) and the potential for locally heavy rainfall could result in street and low elevation area flooding late this week.
- The greatest threat for this combined flooding threat will be during the overnight hours Thursday night and Friday night, generally between 8:00 pm and 5:00 am. Note that on the Bayside of the northernmost Upper Keys where the tide cycle is less distinct, the threat of combined locally heavy rainfall and water levels would be expanded throughout the Thursday-through-Friday night period.
- Areas where king tide flooding is normally observed on dry weather days will be at the greatest risk for this combined rain-and-tide flooding. Should rainfall rates of 1 to 2 inches per hour occur during portions of Thursday night and Friday night, streets in those areas may become impassable for a few hours at a time with the lowest elevation homes and businesses (those that can be flooded by heavy rainfall alone in the past) may be impacted.

Situation:

A complex weather pattern beginning with a stationary front over the northwestern Bahamas and south Florida will pivot and evolve to a trough of low pressure straddling south Florida and the Florida Keys by Thursday. A weak wave of low pressure may form along the trough by Thursday night and move northeast to off the east coast of Florida on Friday. While elevated rain chances are currently in the forecast through Wednesday night, bouts of locally heavier rainfall from more frequent showers and a few stronger thunderstorms may produce rainfall of 1 to 2 inches at a time.

If these downpours occur around the times of high tide, especially Thursday night and Friday night, the combination of little or no drainage may result in significant street and low area flooding at much lower rainfall rates than what would normally be expected for such flooding.

In addition, the Weather Prediction Center has outlooked the northernmost Upper Florida Keys (including Key Largo and Ocean Reef) for a **marginal risk** (Level 1 out of 4) of excessive (flooding) rainfall Thursday and Thursday night. The potential for the rain-and-tide combined flooding in the Keys is most likely to be in this area, and due to lack of a distinct tide cycle on eastern Florida Bay and Blackwater Sound, would be spread throughout the whole Thursday-through-Friday night time period.



The WPC Excessive Rainfall Outlook for Thursday and Thursday night, indicating a MARGINAL RISK (Level 1 out of 4) for flooding rainfall for the Key Largo-to-Ocean Reef portion of the Florida Keys.

Chance of 24 hr Precipitation Greater Than 1 in Tuesday Evening, Oct 7 - Sunday Evening, Oct 12						
	Tue 10/7	Wed 10/8	Thu 10/9	Fri 10/10	Sat 10/11	Sun 10/12
Big Pine Key	0%	2%	10%	35%	30%	5%
Key Largo	10%	5%	20%	40%	30%	10%
Key West	0%	4%	15%	35%	25%	5%
Marathon	4%	15%	25%	50%	35%	10%
Percent Chance (%)						
Valid: Tue 08 pm EDT - Sun 08 pm EDT Issued: Tue, Oct 7, 2025, 9 am EDT						

Chart showing the chance for 24-hour rainfall amounts in excess of 1 inch beginning this evening through Sunday evening. Note that each 24-hour period includes the previous night. For example, the 50% chance for rainfall to exceed 1 inch in Marathon on Friday reflects the 24-hours including Thursday night and Friday.

At this time, this weather situation favors locally heavy rainfall with a risk for street and poor drainage area flooding, as the risk for severe local thunderstorms with damaging winds remains very low.

General rainfall totals over the Florida Keys from Thursday through Friday night will likely range from 1 ½ to 3 inches, with isolated spots possibly receiving in excess of 6 inches.

Timing:

While above-normal rain chances are already in place today through Wednesday night, an increase in frequency and intensity of showers and thunderstorms is likely beginning Thursday. The potential for locally heavy downpours coinciding with the high (king) tides will increase Thursday night.

Impacts:

Streets and low lying areas normally impacted by king tides during dry weather may become impassable for a few hours at a time with the lowest elevation homes and businesses (those that can be flooded by heavy rainfall alone in the past) also impacted.

Tropical Weather Situation:

The combined rain-and-tide flooding potential later this week is not due to any tropical disturbances. Tropical Storm Jerry has formed over the central tropical Atlantic waters and will be near or north of the northern Leeward Islands late Thursday and Friday and possibly as a hurricane. Jerry does not pose a threat to the Florida Keys.

Next Update

The next update will be issued around 11:00 am EDT Wednesday, October 8th.

You may contact the NWS Key West at (305) 295-1316 extension 3 to speak with a meteorologist 24/7. Please contact us anytime if you require specific critical hazardous weather information for decision support in your agency, department or division's activities.



For additional information, visit our webpage at:

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