



Climate and Hydrology Monthly Report for Puerto Rico and the US Virgin Islands

Valid for September 2025

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September Climate Summary for Primary Climate Sites

San Juan Area

(Period of Record: 1898 to present)

Highest: **95 °F** on the 28th

Lowest: **76 °F** on the 7, 8, 18, 19, 20, 24th

Average: 84.0 °F (**+0.6**; above normal)

Rain Total: 6.60" (**+0.10**; above normal)

Days with $T_{\max} \geq 90$ °F: 17

Nights with $T_{\min} \geq 80$ °F: 5

Days with Rain (≥ 0.01 "): 25

Rankings:

16th warmest

39th wettest

Remarks:

St. Thomas

(Period of Record: 1953 to present)

Highest: Missing

Lowest: Missing

Average: Missing

Rain Total: Missing

Days with $T_{\max} \geq 90$ °F: Missing

Nights with $T_{\min} \geq 80$ °F: Missing

Days with Rain (≥ 0.01 "): Missing

Rankings:

Remarks:

First five days and last three days of the month were missing.

St. Croix

(Period of Record: 1951 to present)

Highest: **92 °F** on the 5, 16th

Lowest: **73 °F** on the 18th

Average: 82.9 °F (**+0.1**; above normal)

Rain Total: Missing

Days with $T_{\max} \geq 90$ °F: 17

Nights with $T_{\min} \geq 80$ °F: 5

Days with Rain (≥ 0.01 "): Missing

Rankings:

29th coolest

Remarks:

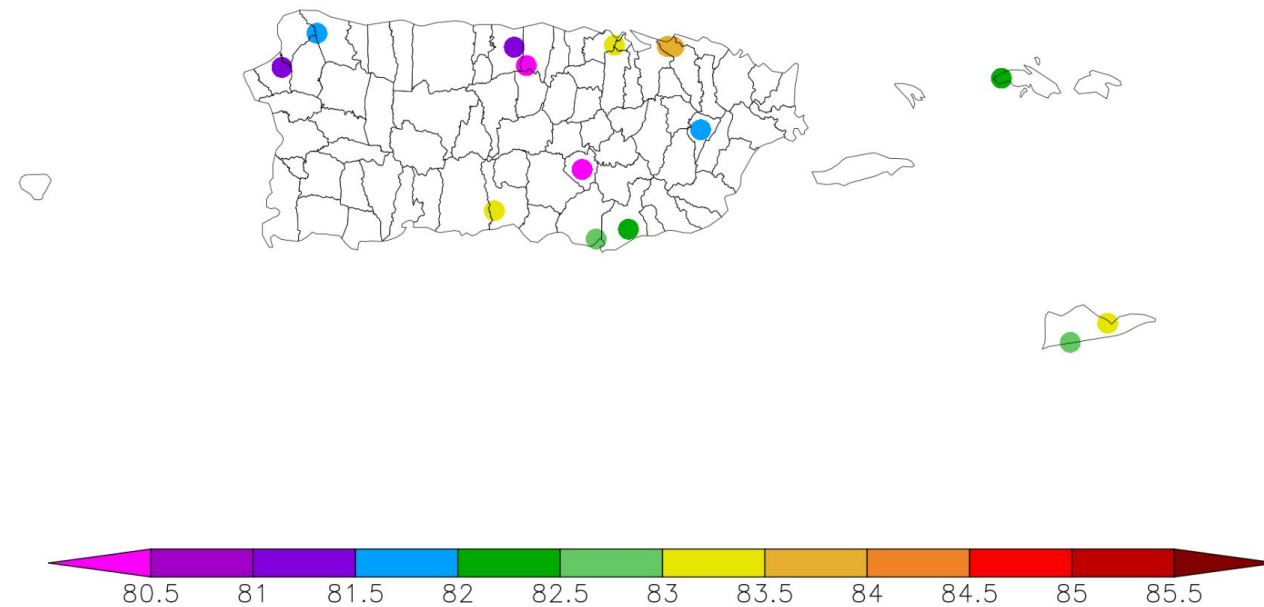
Precipitation sensor remains inoperable.



Observed Temperature

Link to generate the latest [ACIS Climate Maps](#)

Temperature (F)
9/1/2025 – 9/30/2025

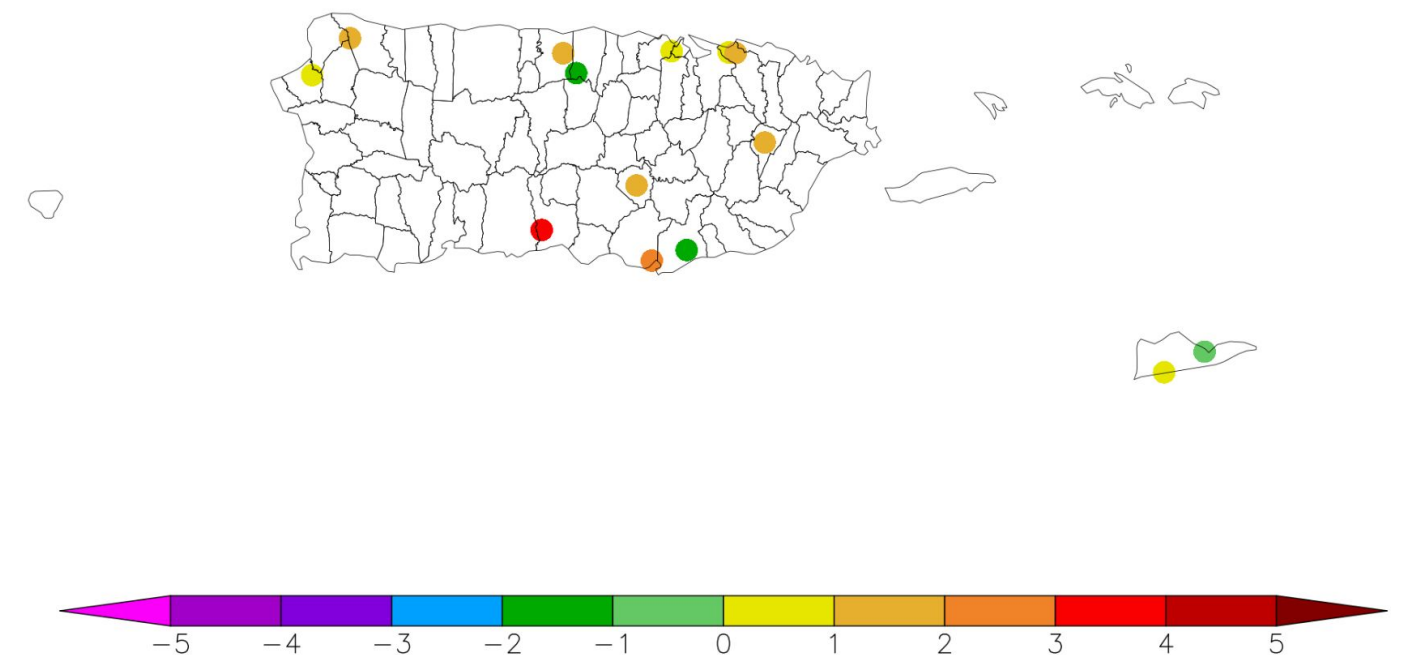


Generated 10/10/2025 using provisional data.

ACIS Web Services

- Temperatures across the majority of local sites have been mostly above normal, with three exceptions: across the north-central and southeastern coasts of Puerto Rico and St. Croix. The COOP station in Puerto Rico with the highest daily maximum temperature was **Isabela Substation**, which recorded **97°F**. In the U.S. Virgin Islands, the COOP station with the highest daily maximum temperature was **Bordeaux**, registering **91°F**.

Departure from Normal Temperature (F)
9/1/2025 – 9/30/2025



Generated 10/10/2025 using provisional data.

ACIS Web Services

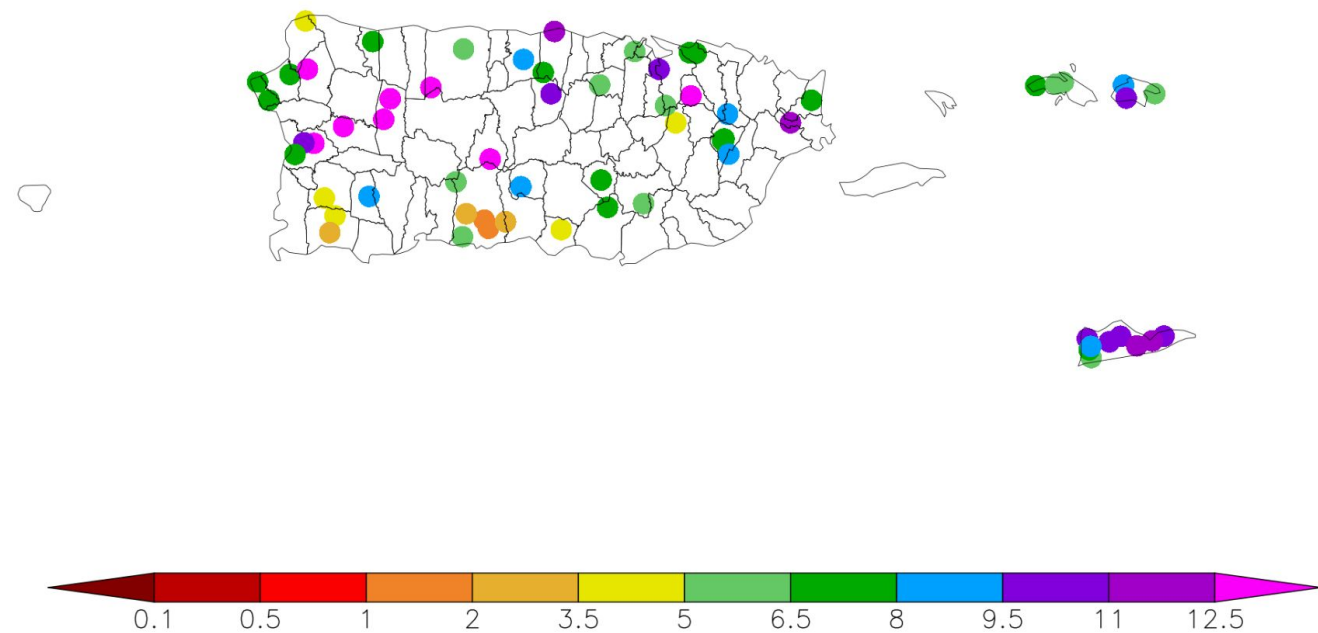
Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.



Observed Rainfall

Link to generate the latest [ACIS Climate Maps](#)

Precipitation (in)
9/1/2025 – 9/30/2025

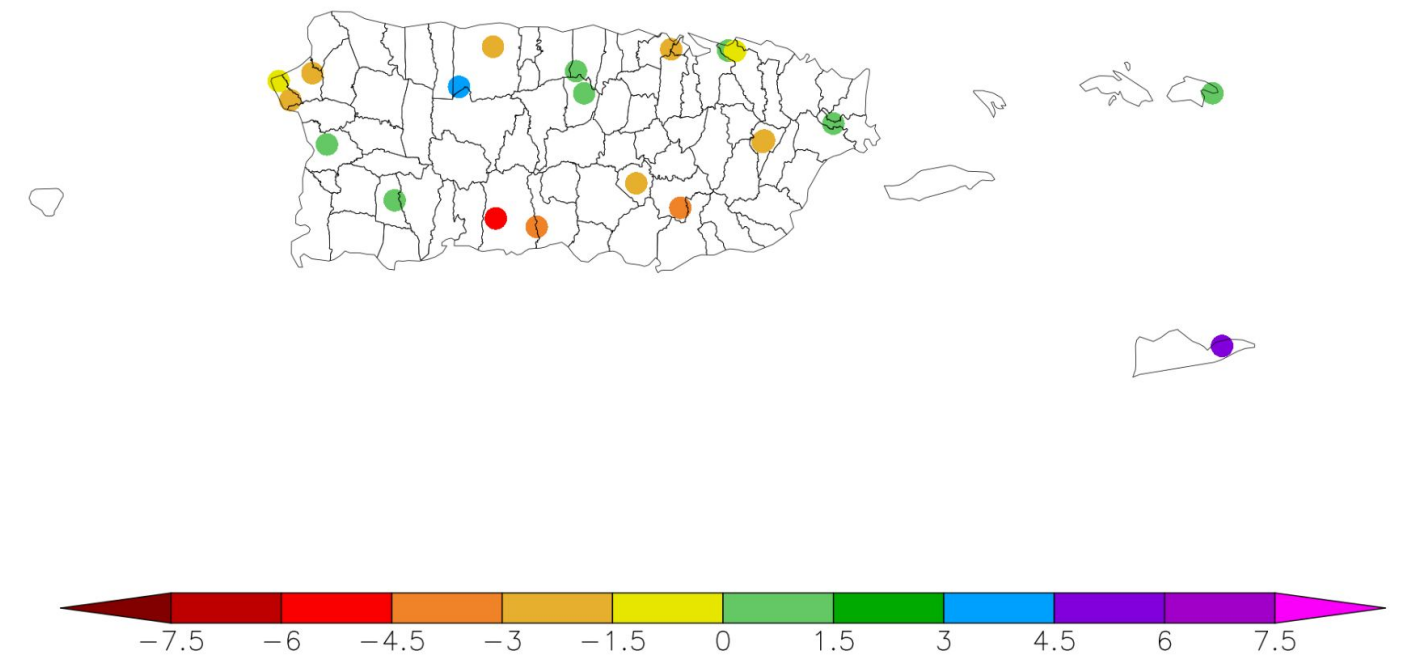


Generated 10/10/2025 using provisional data.

ACIS Web Services

- Most stations in Puerto Rico and the U.S. Virgin Islands ended below normal, with some exceptions in the western, northern, and eastern regions of Puerto Rico and in the USVI. The COOP station with the highest monthly rainfall accumulation was **Hacienda Constanza at Mayaguez**, with **15.01"**. The CoCoRaHS station with the highest monthly rainfall accumulation was **Lares 2.0 NNE** with **20.60"**.

Departure from Normal Precipitation (in)
9/1/2025 – 9/30/2025



Generated 10/10/2025 using provisional data.

ACIS Web Services

Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.



Estimated Rainfall

Estimated Rainfall was obtained from MRMS [NWPS](#) (Puerto Rico), and COOP and [CoCoraHS](#) (Virgin Islands)

- Overall, most of the western interior and eastern coastal sections of Puerto Rico received between 10 and 20 inches of rainfall. Some areas reported over 20 inches of precipitation, particularly across northeastern Utuado and the southern sections of San Sebastián.
- Across the southern coastal plains, shower activity during the month produced between 2 and nearly 5 inches of precipitation, with the southern section of Ponce reporting the lowest amounts. Along the eastern interior, including Caguas, Aguas Buenas, and Naranjito, rainfall totals ranged between 3 and 5 inches.
- In U.S. Virgin Islands, the heaviest rainfall occurred over St. Croix with widespread 9–12 inches.
- Across St. Thomas and St. John, amounts were lighter and more variable, generally 5-9 inches.

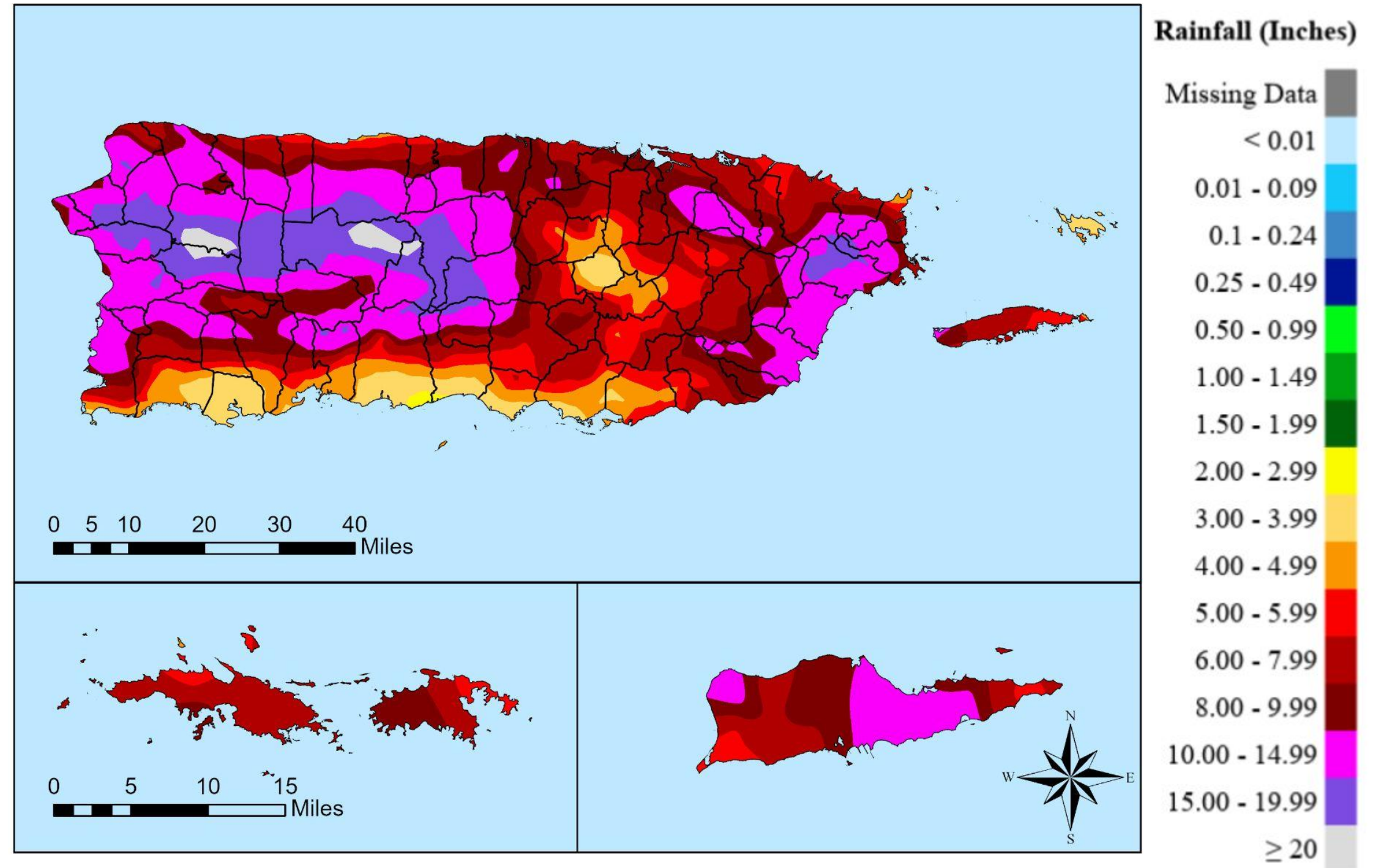


Image Captions:

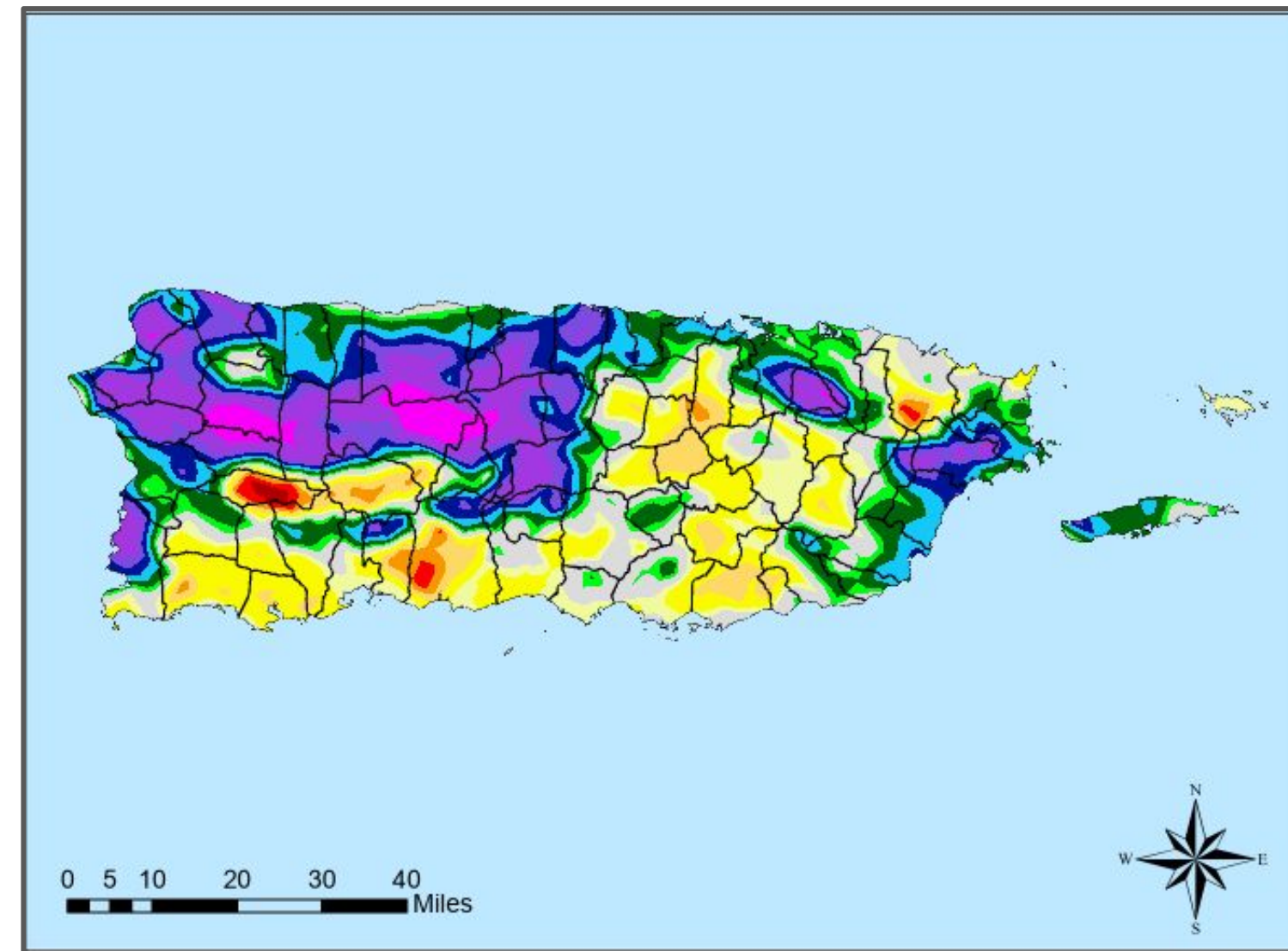
Estimated Rainfall for the month of September. This map is courtesy of the NWS SJU GIS Team.



Departure from Normal Rainfall

Estimated Departure from normal was obtained from [NWPS](#).

- Precipitation during the month resulted in a very wet scenario across the northwestern, interior, and north-central areas, with rainfall totals exceeding 8 inches above normal.
- In contrast, the entire southern coast, including the vicinity of Caguas and the El Yunque area, experienced a rainfall deficit.
- For the Virgin Islands, St. Croix ended the month wetter than normal; however, the total at the official climate site was affected by a sensor malfunction. On the other hand, St. Thomas observed a drier pattern, reporting around 1 inch below normal for the month.



Missing data

Less than -8

-7.99 to -5

-4.99 to -4

-3.99 to -3

-2.99 to -2

-1.99 to -1

-0.99 to -0.5

-0.49 to 0.49

0.5 to 0.99

1 to 1.99

2 to 2.99

3 to 3.99

4 to 4.99

5 to 7.99

≥8

Image Captions:

Estimated Departure from Normal Rainfall for Puerto Rico during the month of September. This map is courtesy of the NWS SJU GIS Team.

*NWPS does not provide rainfall departure from normal for the USVI.



Hydrologic Conditions and Impacts

The latest soil monthly streamflow for Puerto Rico can be found on [WaterWatch](#)

- The 28-day average streamflow from the USGS river gauge network indicates that the rivers in the west and interior are running near normal, but below normal streams continue in the east. For Reservoir levels, click [here](#). For selected USGS monitored wells across southern Puerto Rico, click [here](#). For U.S. Virgin Island wells, press [here](#).

Non-Routine Hydrologic Products	Products issued for the month
Hydrologic Outlooks (SJUESFSJU)	2
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	4
Flash Flood Warnings (SJUFFWSJU)	10
Urban/Small Stream Flood Advisories (SJUFLSSJU)	93
Local Storm Reports (SJULSRSJU)	63

Latest Monthly Average Streamflow from USGS

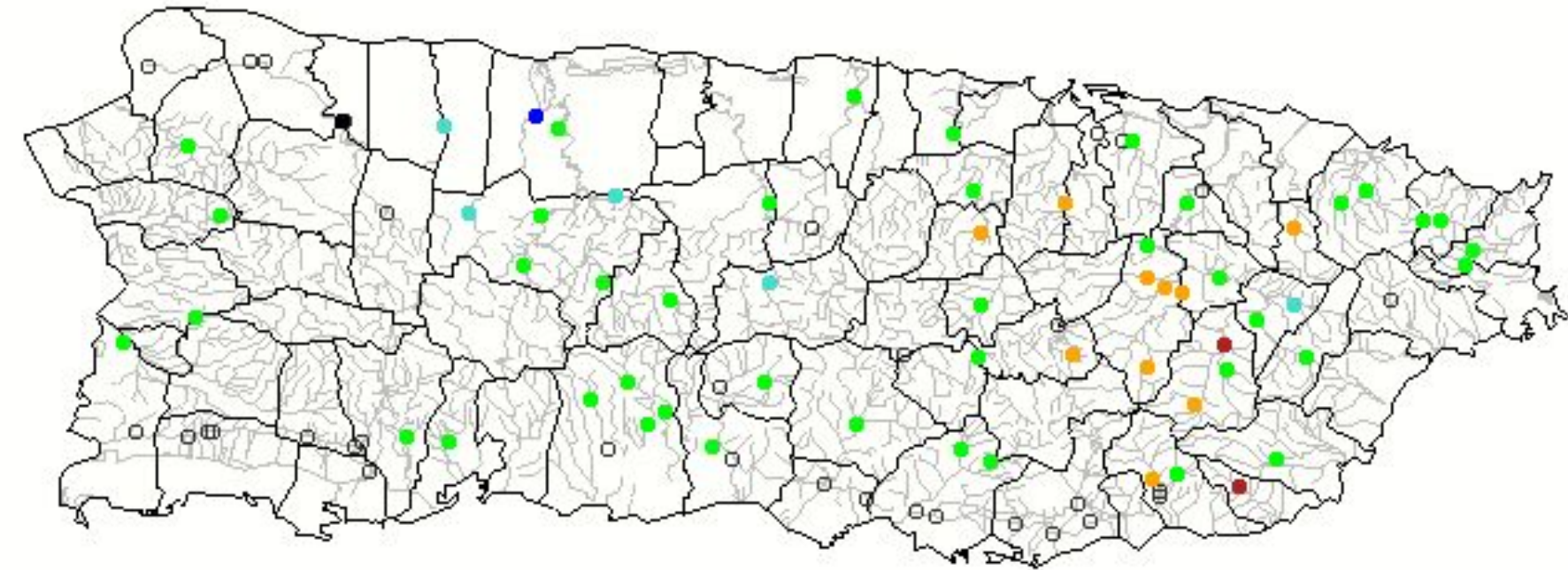


Image Caption: September 2025 compared to historical streamflows for Puerto Rico.

Explanation - Percentile classes							
Low	<10 Much below normal	10-24 Below normal	25-75 Normal	76-90 Above normal	>90 Much above normal	High	Not-ranked



Soil Saturation

The latest soil moisture information for Puerto Rico can be found on [PRAGWATER](#)

The latest data retrieved from PRAGWATER indicate drier conditions (in red and orange) mainly across the southern plains, and the eastern interior. The same areas show vegetation stress.

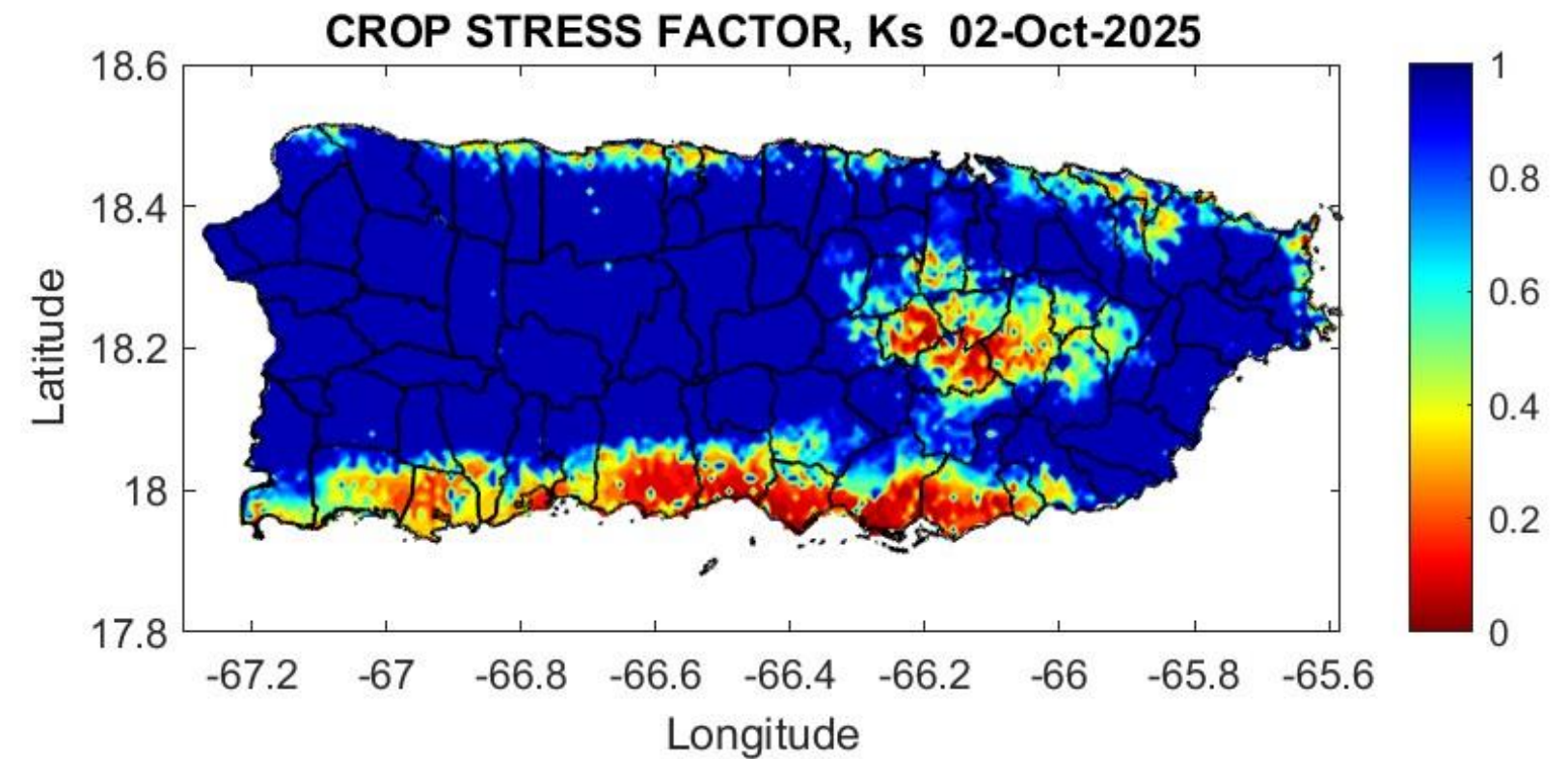
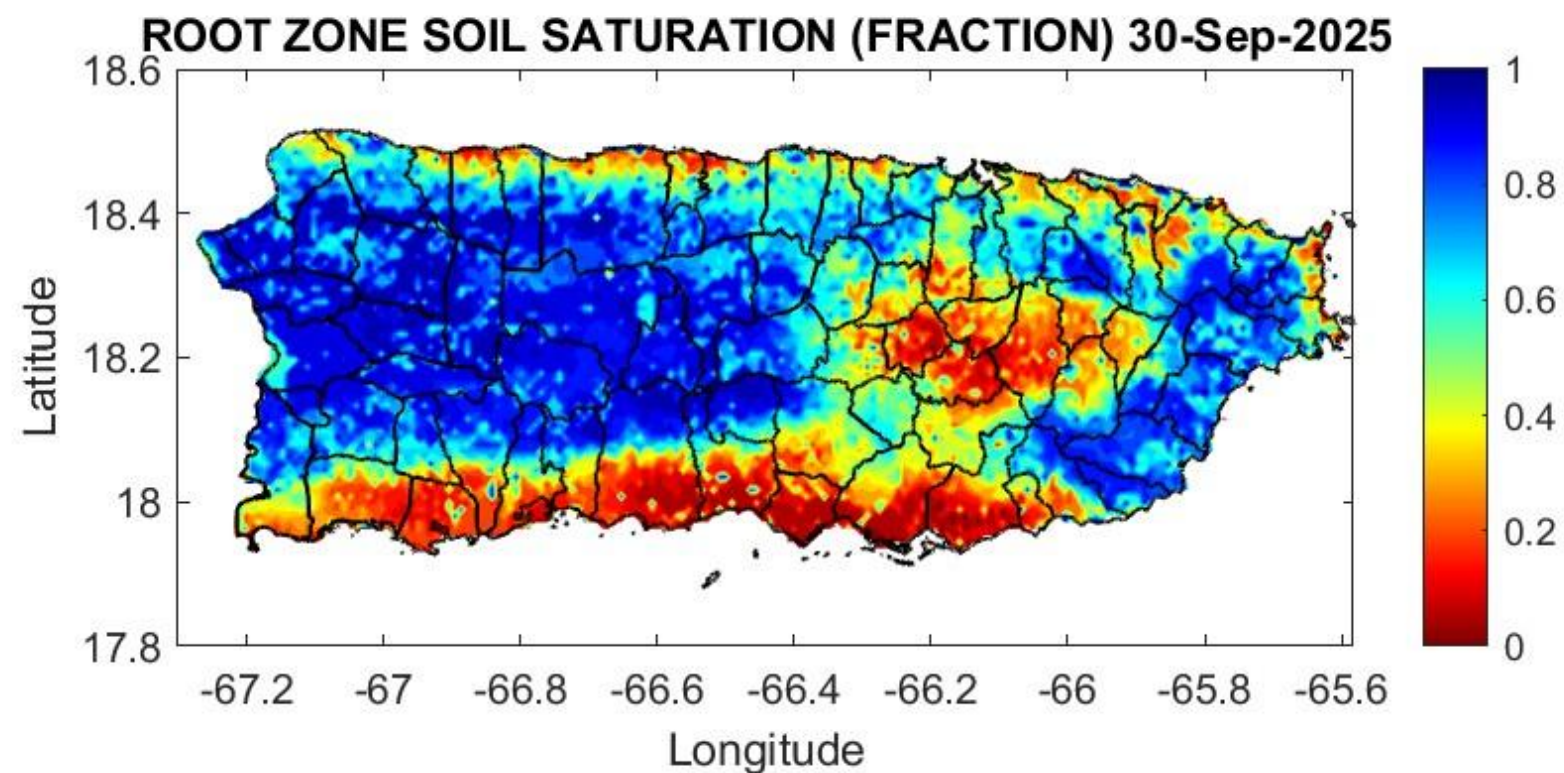


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high



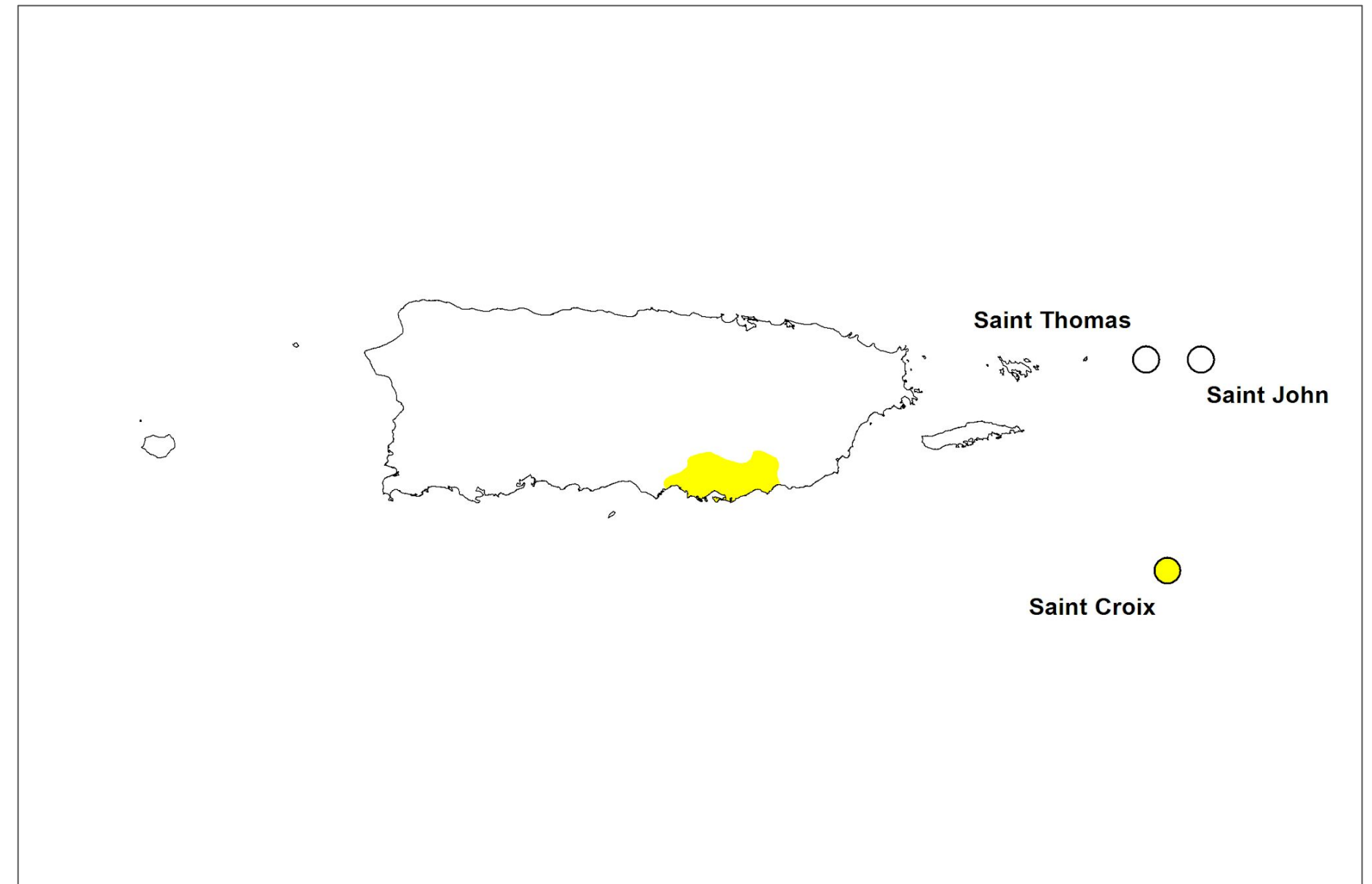
U.S. Drought Monitor

Link to the [latest U.S. Drought Monitor](#) for the Caribbean

DROUGHT CONDITIONS:

Abnormally Dry conditions (D0) persists along southeastern Puerto Rico.

Well levels in St. Croix continue to be on the low side. D0 conditions are present here.



U.S. Drought Monitor



Image Caption: U.S. Drought Monitor valid 8am EDT September 30th, 2025



Recent Change in Drought Intensity

Link to the latest [4-week change map](#) for the Caribbean

Four Week Drought Monitor Class Change:

- Over the past month, one class improvement have been observed over portions of the eastern interior and northwest.
- One class improvement was observed in St. Croix

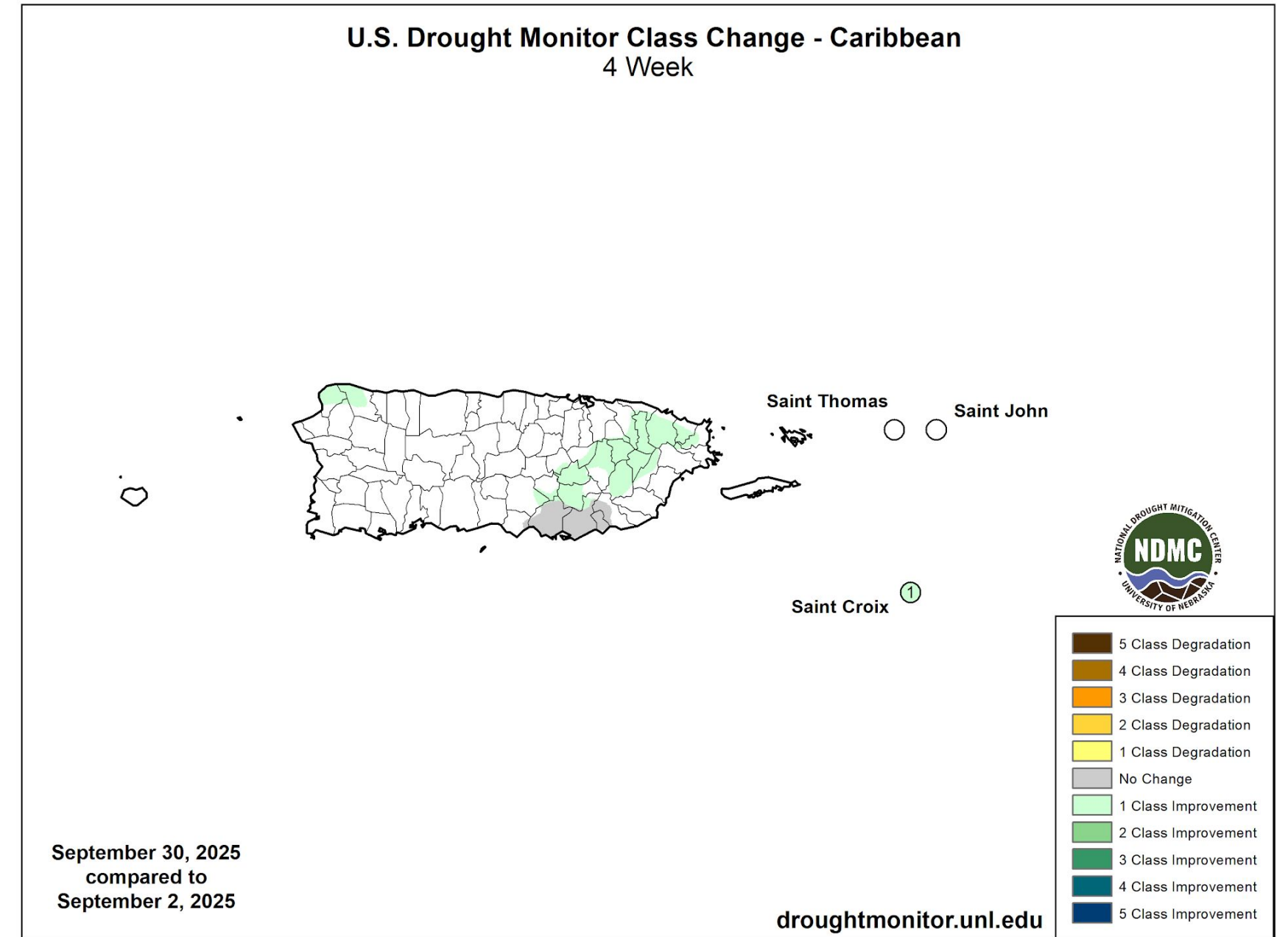


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT Sep 30th, 2025.



Long-Range Precipitation Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

- The North American Multi-Model Ensemble (NMME) indicates nearly [40%](#) chance of above-normal precipitation during the late fall and winter months (November–December 2025– January 2026) across the northeastern Caribbean.

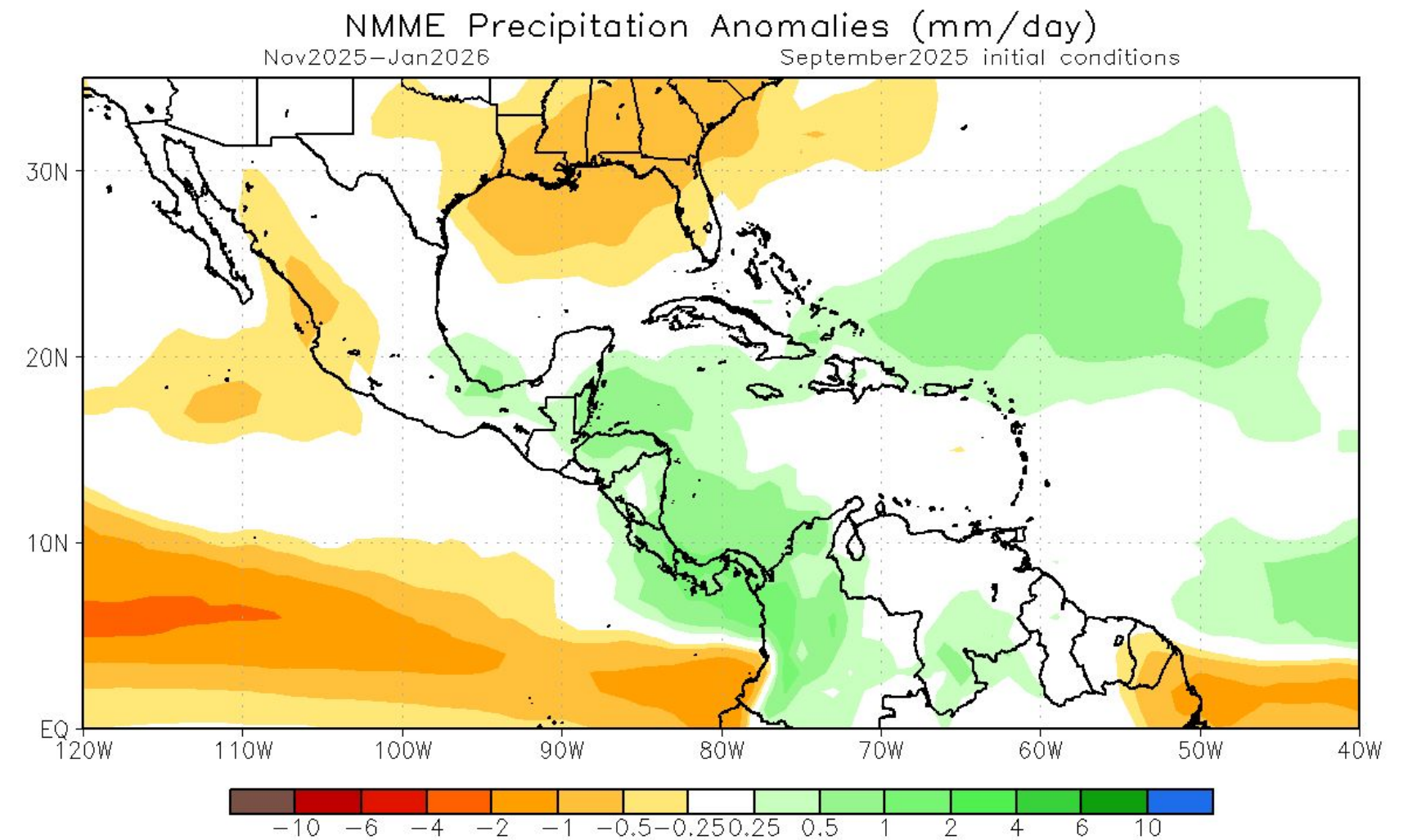


Image caption: NMME precipitation forecast issued September 2025. Valid November–December 2025–January 2026.



Long-Range Temperature Outlook

The latest three-months temperature outlook can be found on the [CPC homepage](#)

- Based on the **North American Multi-Model Ensemble (NMME)**, there is a 70% or greater chance of above-normal temperatures during the late fall and winter months (November–December 2025–January 2026) across the northeastern Caribbean.

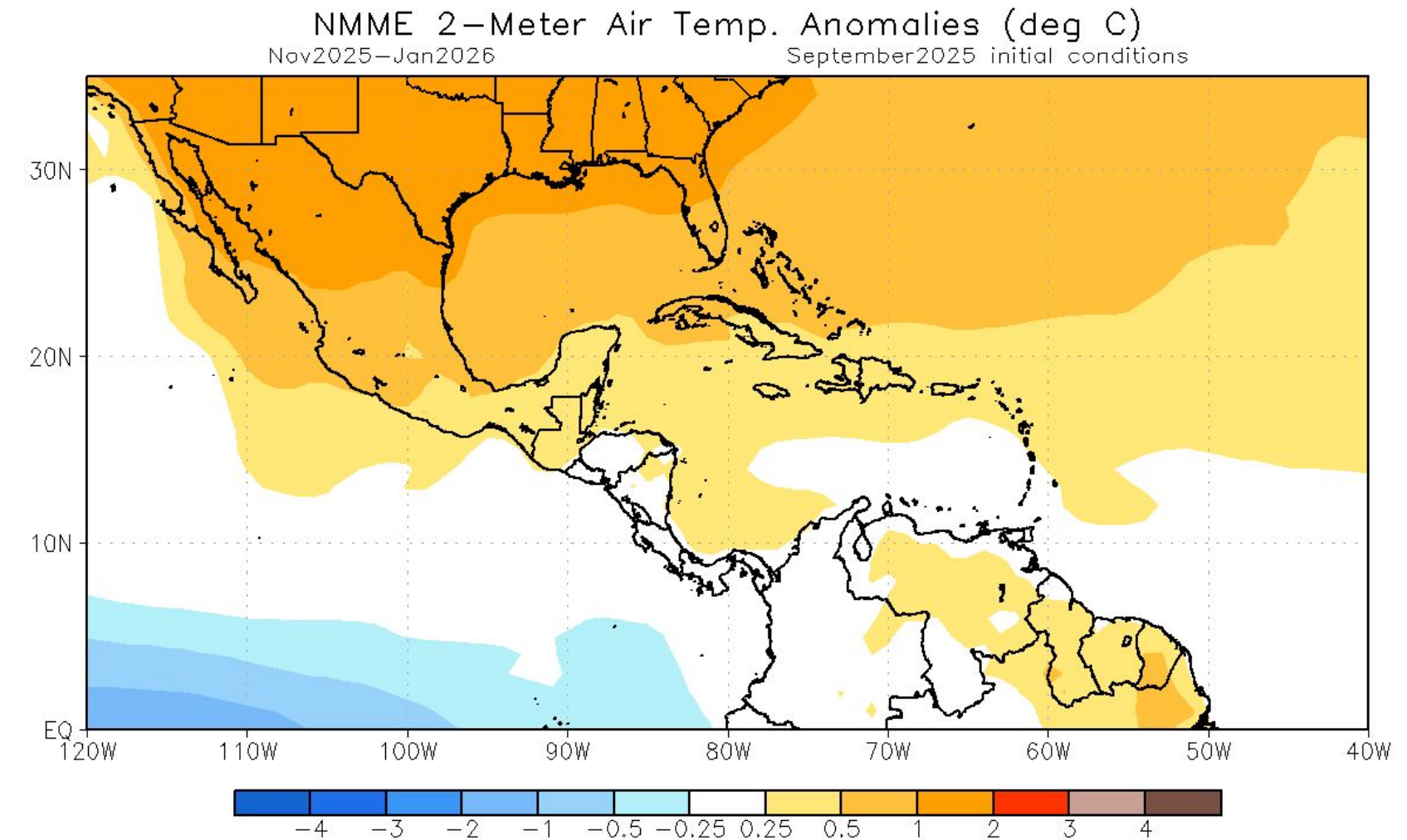


Image caption: NMME temperature forecast issued September 2025. Valid November–December 2025–January 2026.



Long Range Drought Outlook

The latest monthly and seasonal outlooks can be found on the [CPC homepage](#)

**Seasonal (3-Month) Drought Outlook for September 30,
2025–December 31, 2025**

- Based on the expected conditions, no drought is expected to develop in Puerto Rico nor the Virgin Islands over the upcoming three months.



Drought Is Predicted To...



Source(s): Climate Prediction Center; image courtesy of Drought.gov

Last Updated: 09/30/25

Image Caption: U.S. Seasonal Drought Outlook Valid for September 30th to December 31st 2025.