

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

Valid for May 2025

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May Climate Summary for Primary Climate Sites

San Juan Area

(Period of Record: 1898 to present)

Highest: **93 °F** on the 31st

Lowest: **73 °F** on the 15th

Average: 81.2 °F (**-0.4**; below normal)

Rain Total: 6.94" (**+1.40**; above normal)

Days with $T_{\max} \geq 90$ °F: 2

Nights with $T_{\min} \geq 80$ °F: 0

Days with Rain (≥ 0.01 "): 24

Rankings:

37th warmest

45th wettest

Remarks:

2nd month in a row with below normal temps.

St. Thomas

(Period of Record: 1953 to present)

Highest: **90 °F** on the 24-28 & 31st

Lowest: **73 °F** on the 17th

Average: 82.6 °F (**+0.3** above normal)

Rain Total: 5.11" (**+2.09**; above normal)

Days with $T_{\max} \geq 90$ °F: 6

Nights with $T_{\min} \geq 80$ °F: 4

Days with Rain (≥ 0.01 "): 14

Rankings:

13th warmest

15th wettest

Remarks:

St. Croix

(Period of Record: 1951 to present)

Highest: **90 °F** on the 15th

Lowest: **75 °F** on the 1, 2, 4, 5, 7, 8 & 29th

Average: 81.8 °F (**+0.6**; above normal)

Rain Total: M

Days with $T_{\max} \geq 90$ °F: 1

Nights with $T_{\min} \geq 80$ °F: 0

Days with Rain (≥ 0.01 "): M

Rankings:

24th warmest

Remarks:

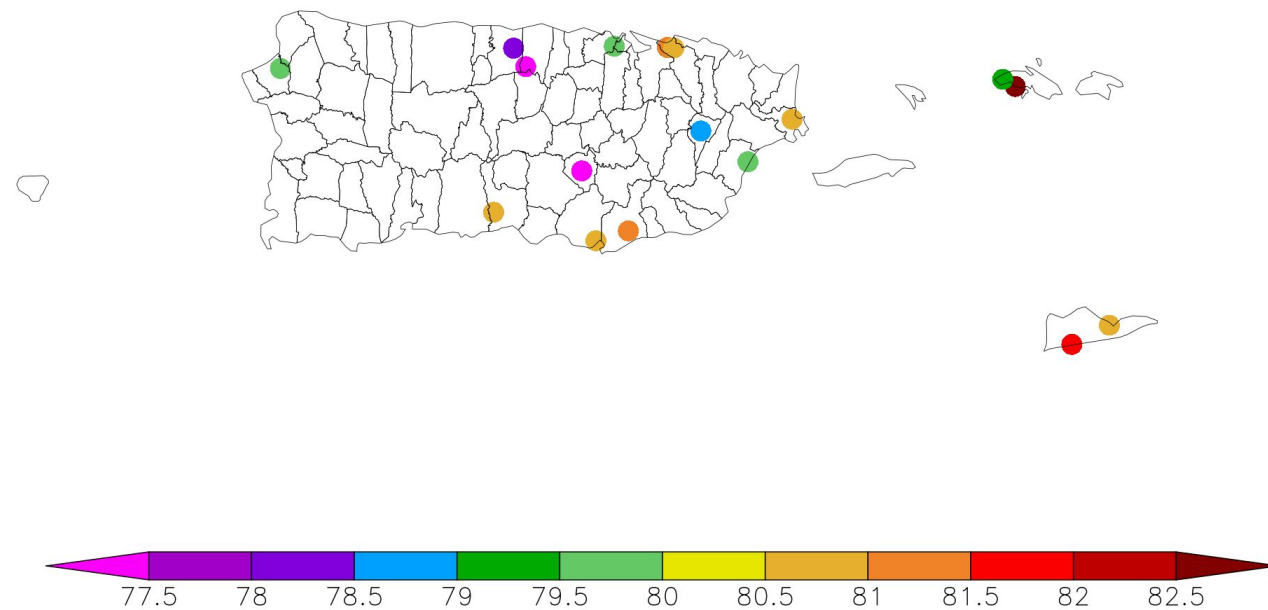
No precipitation estimates due to a sensor malfunction.



Observed Temperature

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

Temperature (F)
5/1/2025 – 5/31/2025

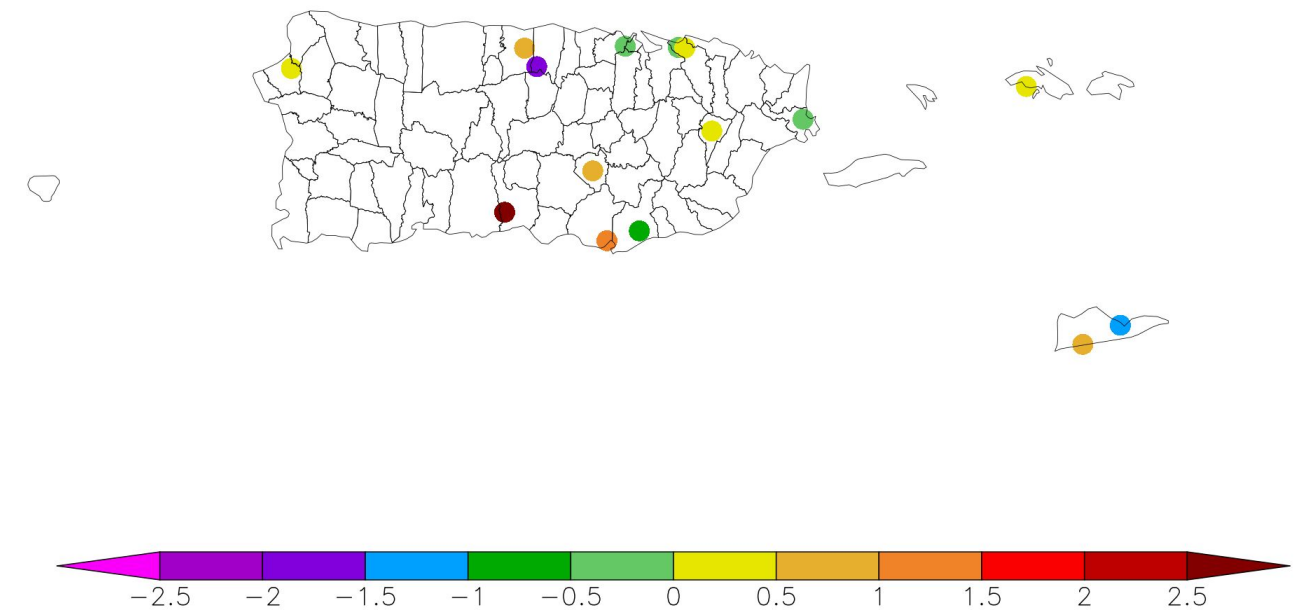


Generated 6/1/2025 using provisional data.

ACIS Web Services

- Temperatures across the majority of the local sites have been mostly above normal, with some exceptions along the northeastern and southeastern coasts of Puerto Rico. The COOP stations with the highest daily maximum temperature were Aguirre, Ponce 4 E, Dos Bocas, and WFO San Juan with **92°F**.

Departure from Normal Temperature (F)
5/1/2025 – 5/31/2025



Generated 6/1/2025 using provisional data.

ACIS Web Services

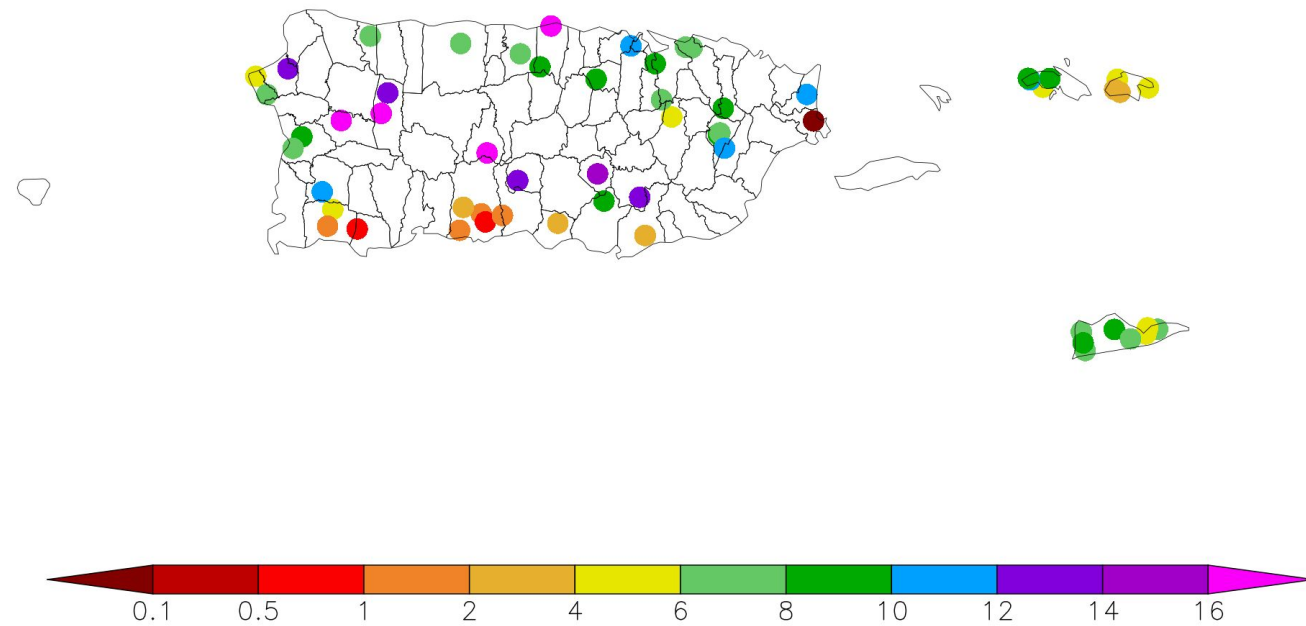
Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.



Observed Rainfall

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

Precipitation (in)
5/1/2025 – 5/31/2025

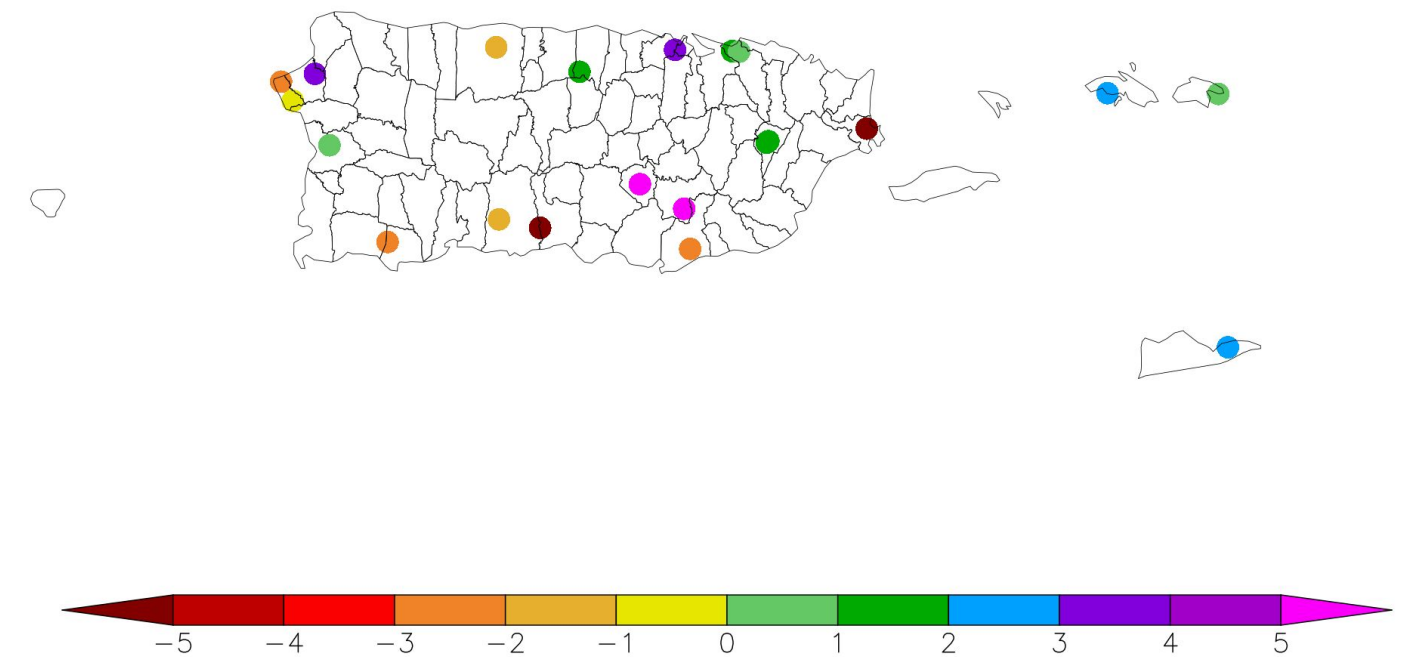


Generated 6/2/2025 using provisional data.

ACIS Web Services

- Most stations in Puerto Rico and the U.S. Virgin Islands ended above normal, with some exceptions along the north-central, southern, and northwestern Puerto Rico. The COOP station with the highest monthly rainfall accumulation was **Maricao Fish Hatchery** in Maricao, with **20.02"**. The CoCoRaHS station with the highest monthly rainfall accumulation was **Lares 1.6 SSW** with **18.91"**.

Departure from Normal Precipitation (in)
5/1/2025 – 5/31/2025



Generated 6/2/2025 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 [NWPS](#) (Puerto Rico), and [CoCoraHS](#) (Virgin Islands)

- As the early wet season unfolded, heavy rainfall was observed along most of the interior municipalities, as well as in the south and extreme east.
- Rainfall accumulation was not too significant along the southern plains, with amounts below three inches observed.
- In the Virgin Islands, Saint Croix and Saint Thomas received 8 to 10 inches of accumulation.
- Saint John only collected 3 to 4 inches, which was significantly drier than the other islands.

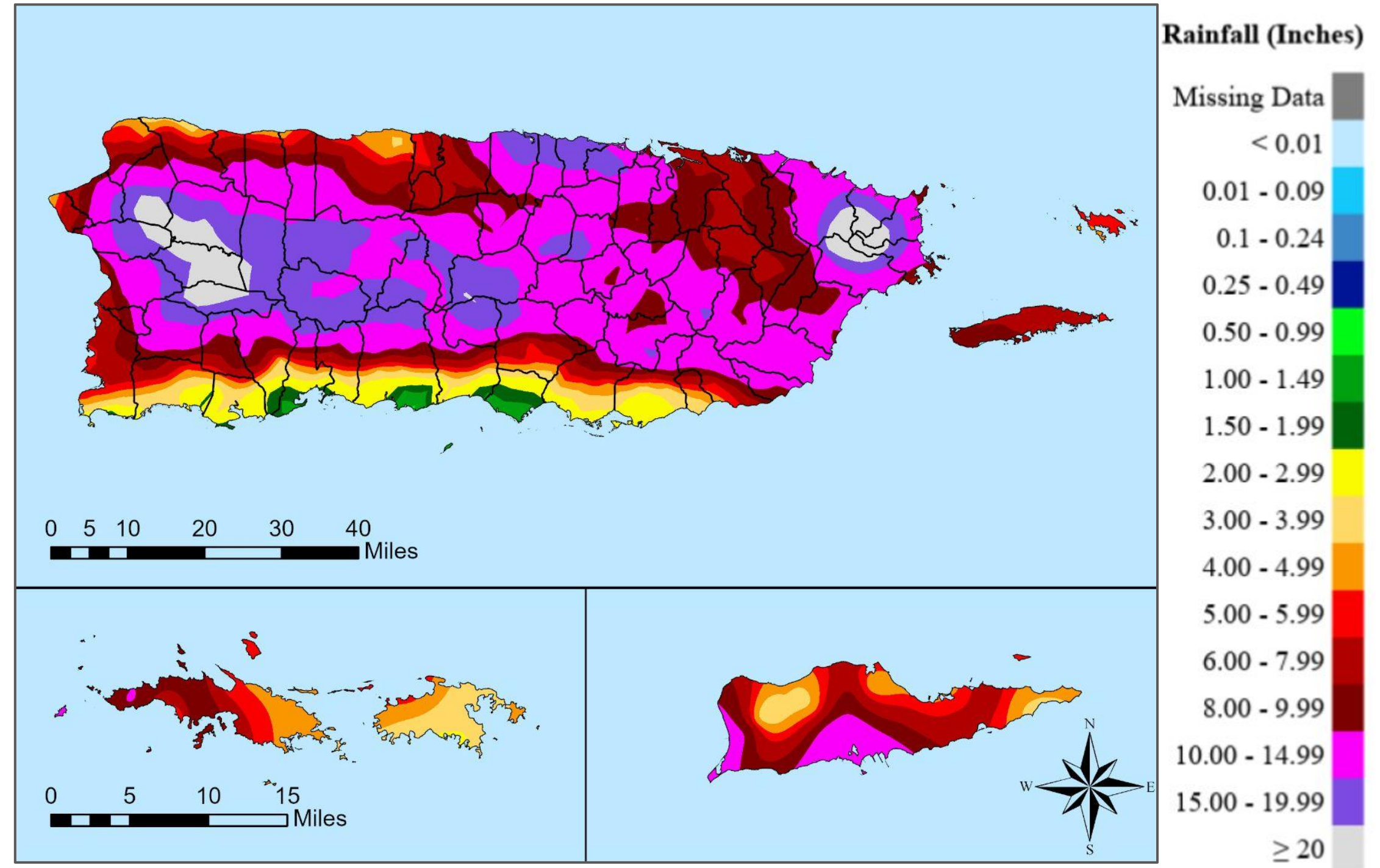


Image Captions:

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



Departure from Normal Rainfall

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

- Above-normal precipitation was observed across the interior, west, east, and north central. Rainfall accumulations were 5 to 8 inches above normal in these regions.
- Precipitation was below normal for the southern plains, the northwest corner and near El Yunque in the east central region. Rainfall amounts were 1 to 3 inches below normal in these areas.

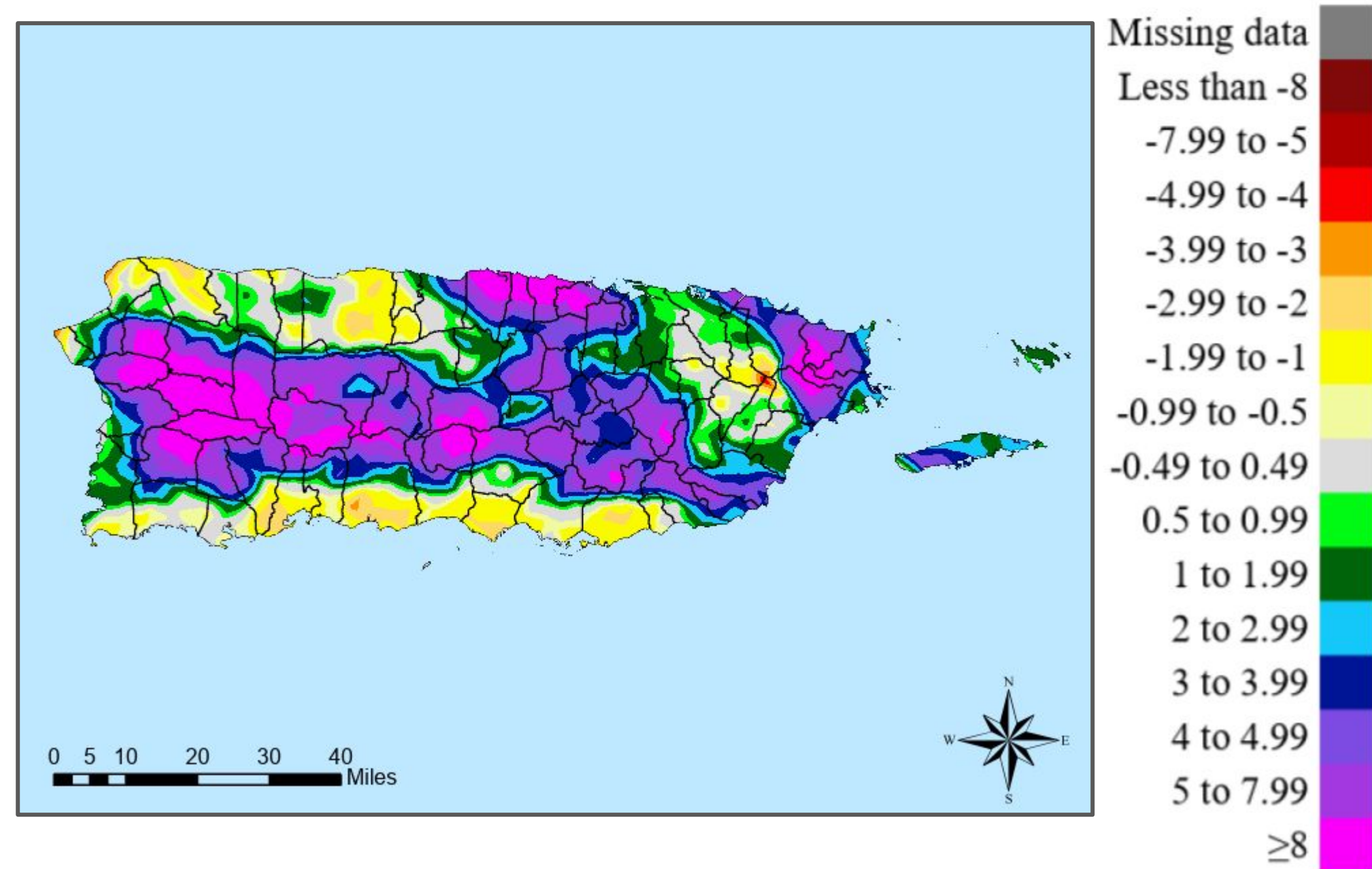


Image Captions:

Estimated Departure from Normal Rainfall for Puerto Rico during the month of May. 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 all the streamflows running near normal to much above normal. For Reservoir levels, click [here](#).

Non-Routine Hydrologic Products Issued	Products issued for the month
Hydrologic Outlooks (SJUESFSJU)	1
Flood Watches (SJUFFASJU)	1
Flood Warnings (SJUFLWSJU)	34
Flash Flood Warnings (SJUFFWSJU)	43
Urban/Small Stream Flood Advisories (SJUFLSSJU)	170
Local Storm Reports (SJULSRSJU)	178

Latest Monthly Average Streamflow from USGS

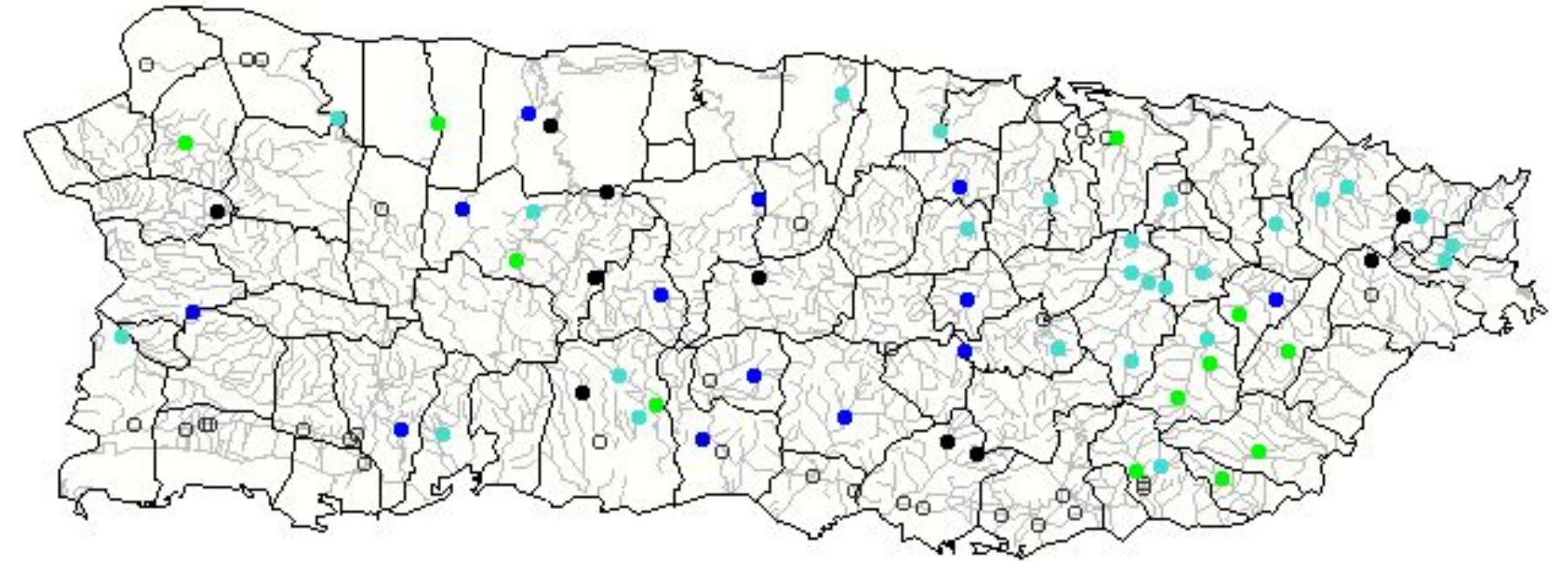


Image Caption: May 2025 compared to historical streamflows for Puerto Rico.

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 drying soils for the south and northwest. Vegetation stress is also observed along the southern plains and in the extreme northwest corner.

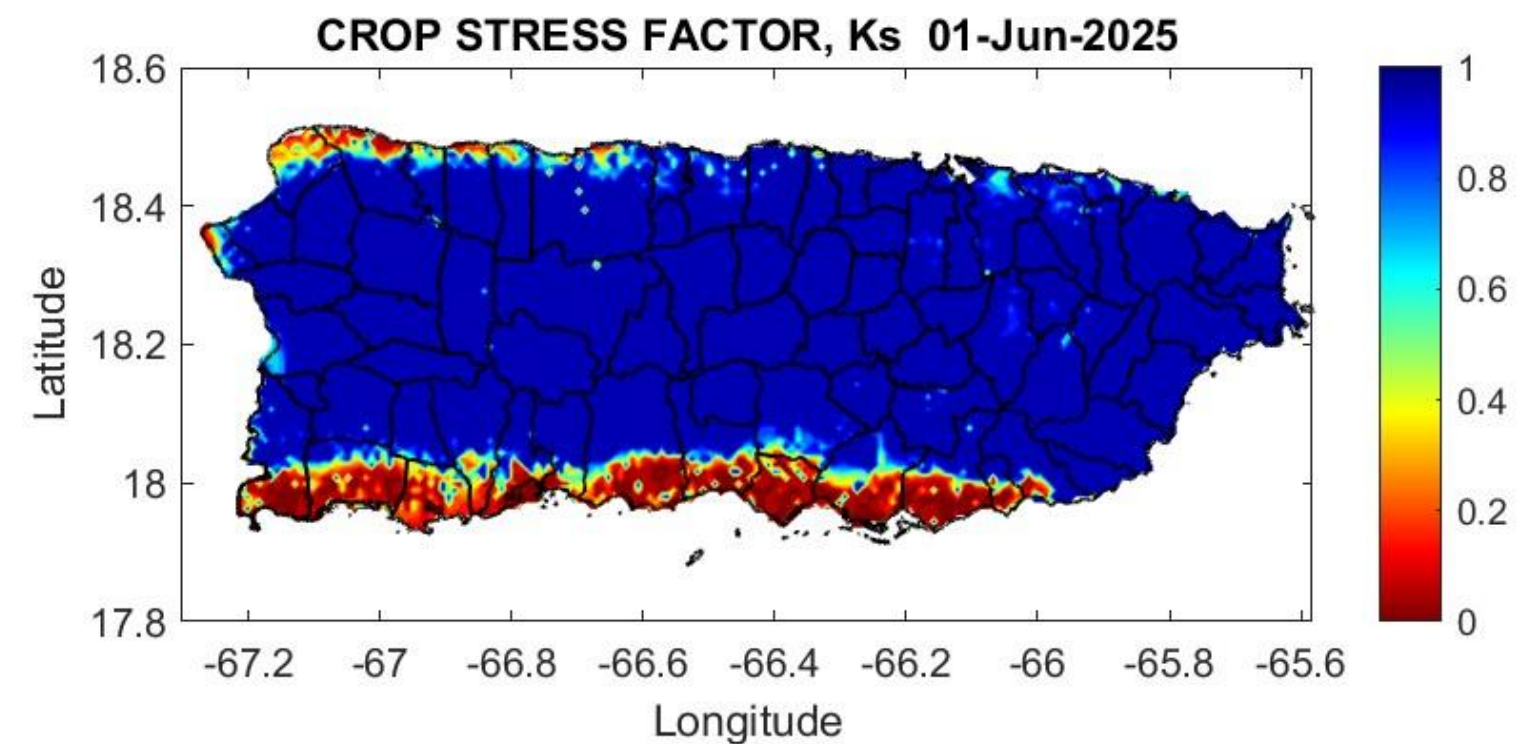
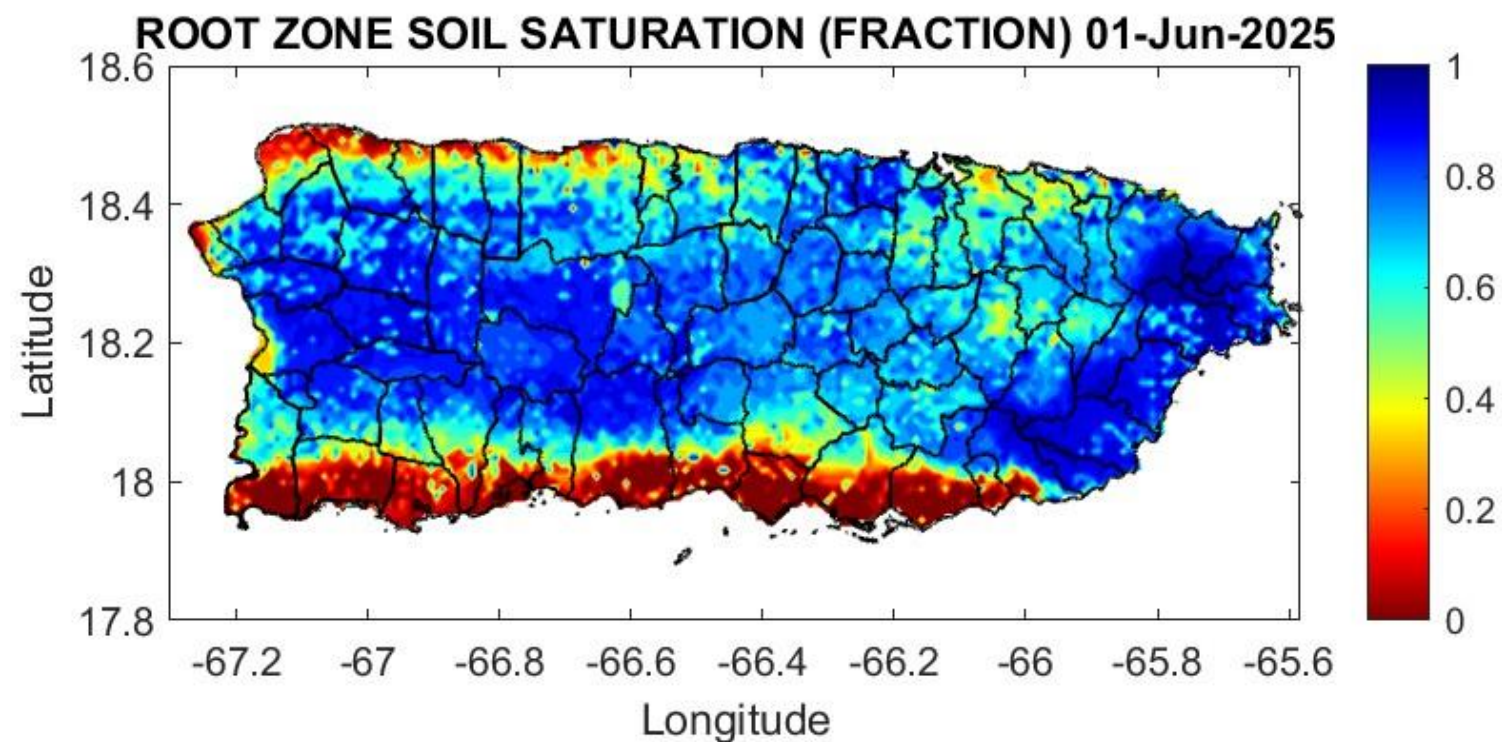


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high



U.S. Drought Monitor

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

DROUGHT CONDITIONS: No drought or dryness is currently observed in the islands.



U.S. Drought Monitor



Image Caption: U.S. Drought Monitor valid 8am EDT May 27th, 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, no changes have been implemented to the U.S. Drought Monitor in the Caribbean.

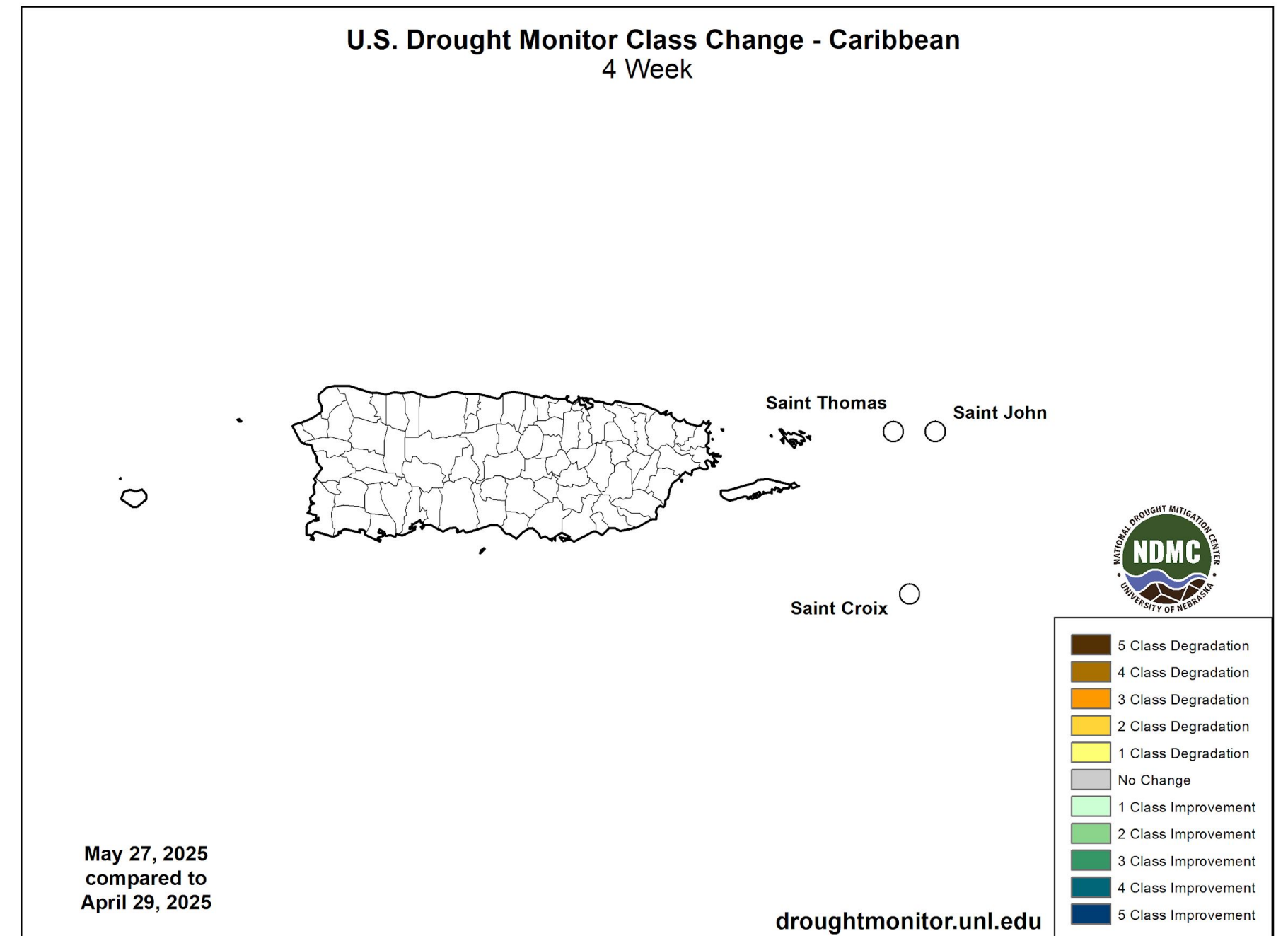


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT May 27th, 2025.



Long-Range Precipitation Outlook

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

- The **North American Multi-Model Ensemble (NMME)** shows nearly 40% chance of below normal precipitation for the the summer months (June-July-August) across the northeastern Caribbean.

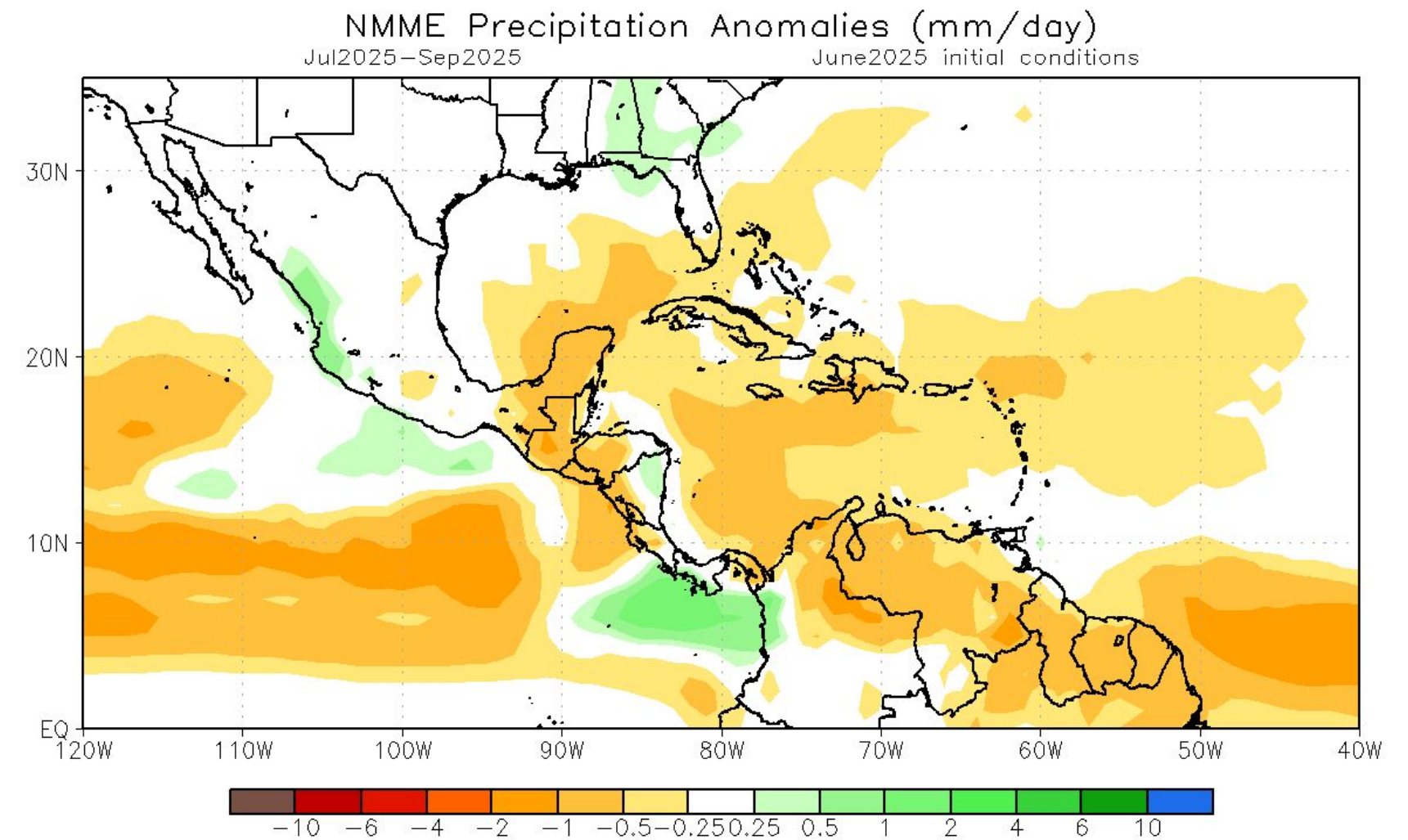


Image caption: NMME precipitation forecast issued June 2025. Valid July-August-September 2025.



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 60 to 70% chance of observing above normal temperature for the period of June-July-August 2025. The temperatures are forecast to be nearly 0.25- 0.5 °C (0.45-0.9 °F) above normal.

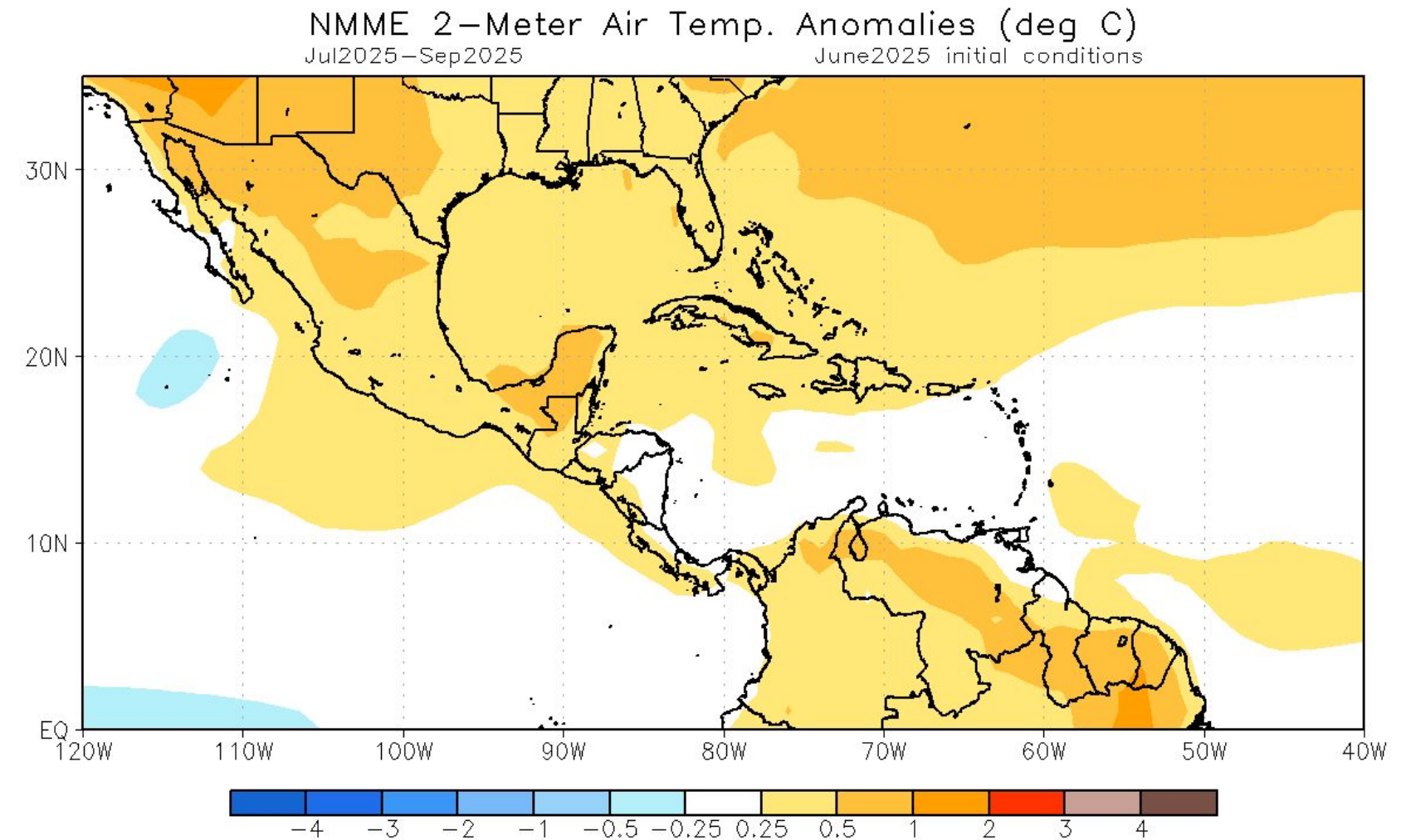


Image caption: NMME temperature forecast issued June 2025.
Valid July-August-September 2025.



Long Range Drought Outlook

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

- Based on the expected conditions, no drought is expected to develop in Puerto Rico or the Virgin Islands in the upcoming three months.

**Seasonal (3-Month) Drought Outlook for May 15,
2025–August 31, 2025**



Drought Is Predicted To...



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

Last Updated: 05/31/25

Image Caption: U.S. Seasonal Drought Outlook Valid for May 15th to August 31th 2025.