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

Valid for April 2025

Issued By: WFO San Juan, PR

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April Climate Summary for Primary Climate Sites

San Juan Area
(Period of Record: 1898 to present)

Highest: **89 °F** on the 12, 13 & 16th
Lowest: **71 °F** on the 5 & 6th
Average: 79.5 °F (-0.6; below normal)
Rain Total: 6.64” (+2.04; above normal)

Days with T_{max} >= 90 °F: 0
Nights with T_{min} >= 80 °F: 0
Days with Rain (>= 0.01”): 26

Rankings:
39th warmest
20th wettest

Remarks:

St. Thomas
(Period of Record: 1953 to present)

Highest: **89 °F** on the 4, 6 & 14th
Lowest: **71 °F** on the 23th
Average: 80.8 °F (+0.2; above normal)
Rain Total: 6.37” (+4.13; above normal)

Days with T_{max} >= 90 °F: 0
Nights with T_{min} >= 80 °F: 0
Days with Rain (>= 0.01”): 17

Rankings:
20th warmest
4th wettest

Remarks:
3 daily warmest minimum records set or tied

St. Croix
(Period of Record: 1951 to present)

Highest: **89 °F** on the 9, 10, 14, 15 & 16th
Lowest: **67 °F** on the 23 & 24th
Average: 80.8 °F (+1.1; above normal)
Rain Total: M

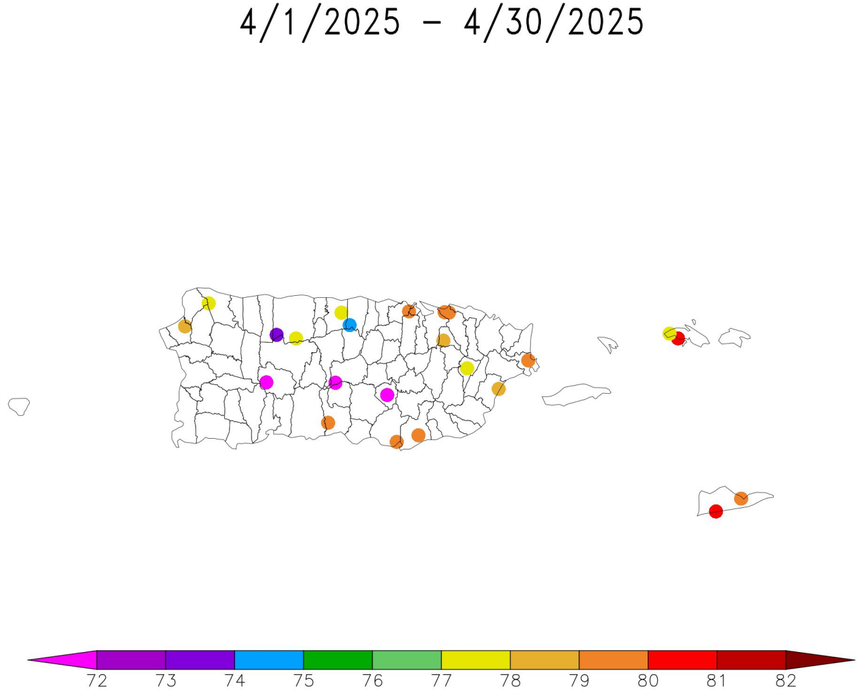
Days with T_{max} >= 90 °F: 0
Nights with T_{min} >= 80 °F: 0
Days with Rain (>= 0.01”): M

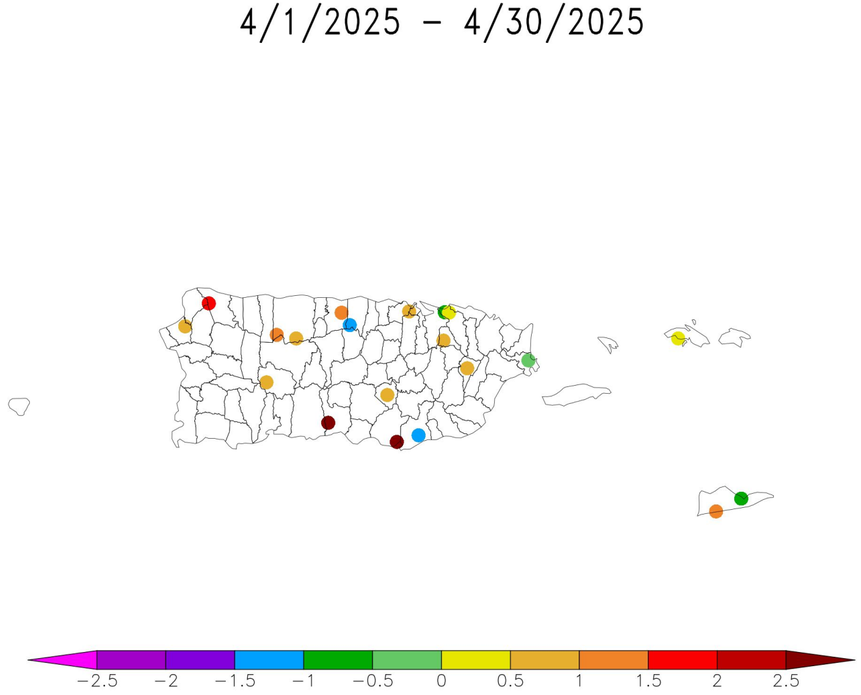
Rankings:
10th warmest

Remarks:
1 day of missing data in April.
No precipitation estimates due to a sensor malfunction.

Observed Temperature

Link to generate the latest ACIS Climate Maps



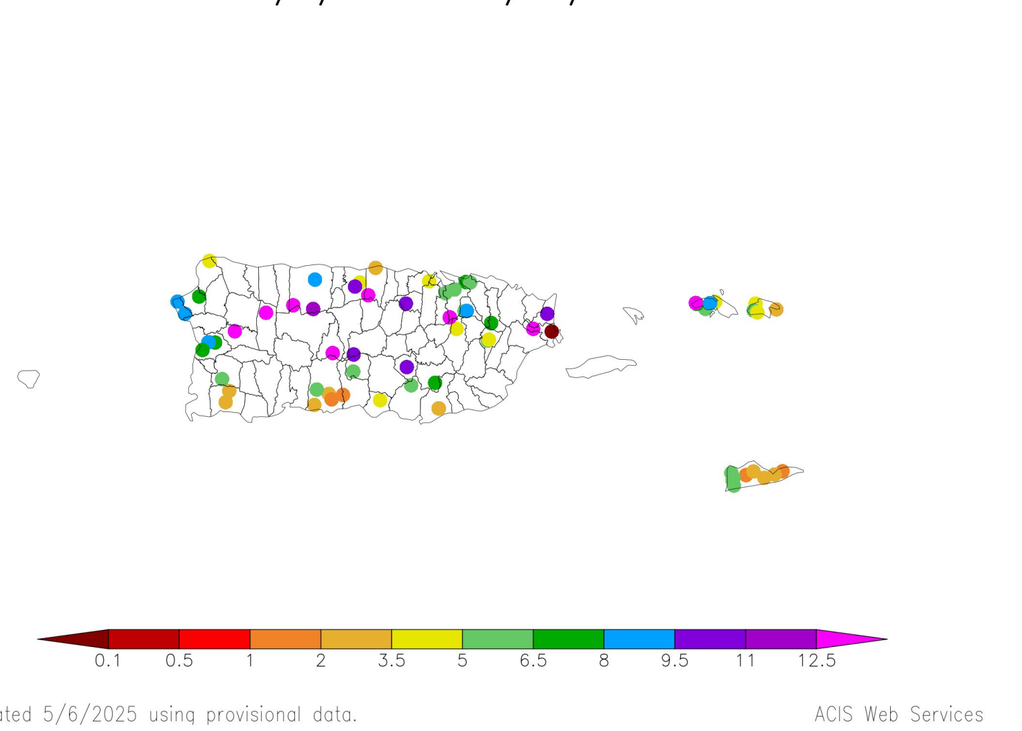


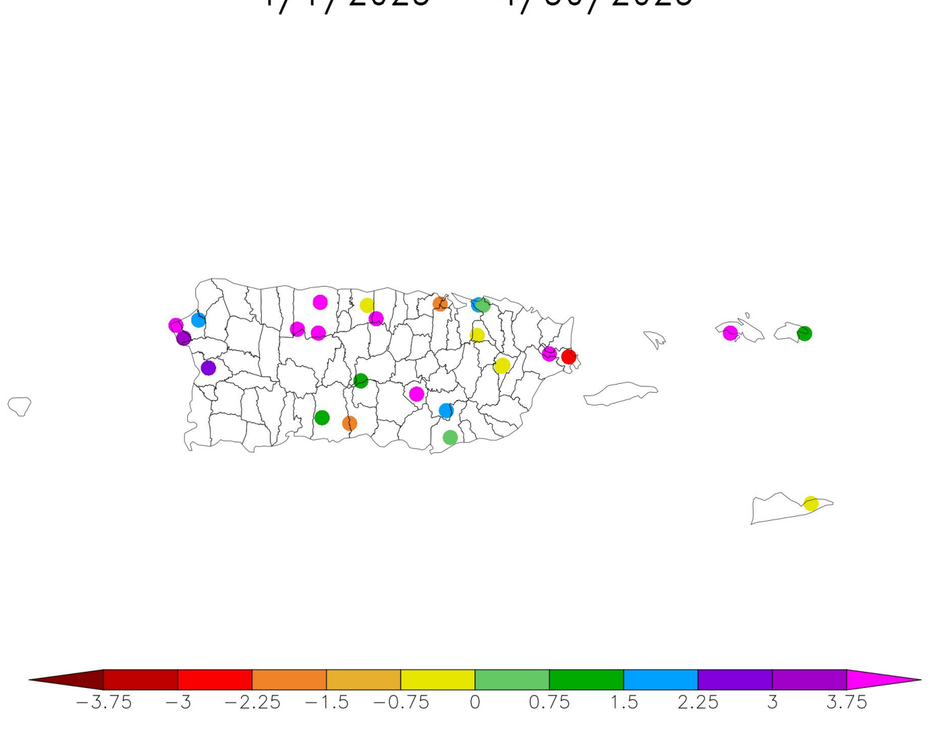
- Temperatures across the majority of the local sites have been mostly above normal. The COOP station with the highest daily maximum temperature was Dos Bocas with **96°F.**

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]





- Most stations in Puerto Rico and the U.S. Virgin Islands ended above normal, with some exceptions along the north-central Puerto Rico and St. Croix. The COOP station with the highest monthly rainfall accumulation was **Paraiso** in Ceiba, with **16.83**". The CoCoRaHS station with the highest monthly rainfall accumulation was **San Juan 7.1 S** with **14.03"**.

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)

- The highest rainfall accumulations were observed in Orocovis, which received slightly above 22 inches of rain. El Yunque rainforest also recorded totals exceeding 20 inches, with other parts of the central and western interior generally ranging from 15 to 20 inches.
- Moderate accumulations were seen across much of the interior, with amounts generally between 10 and 15 inches.
- Lower accumulations, around 5 to 10 inches, were observed along the coastal regions, particularly in the south and northwest.
- Excessive rainfall was also observed in the USVI, with some localized areas in St. Thomas recording 12 to 16 inches of rain.

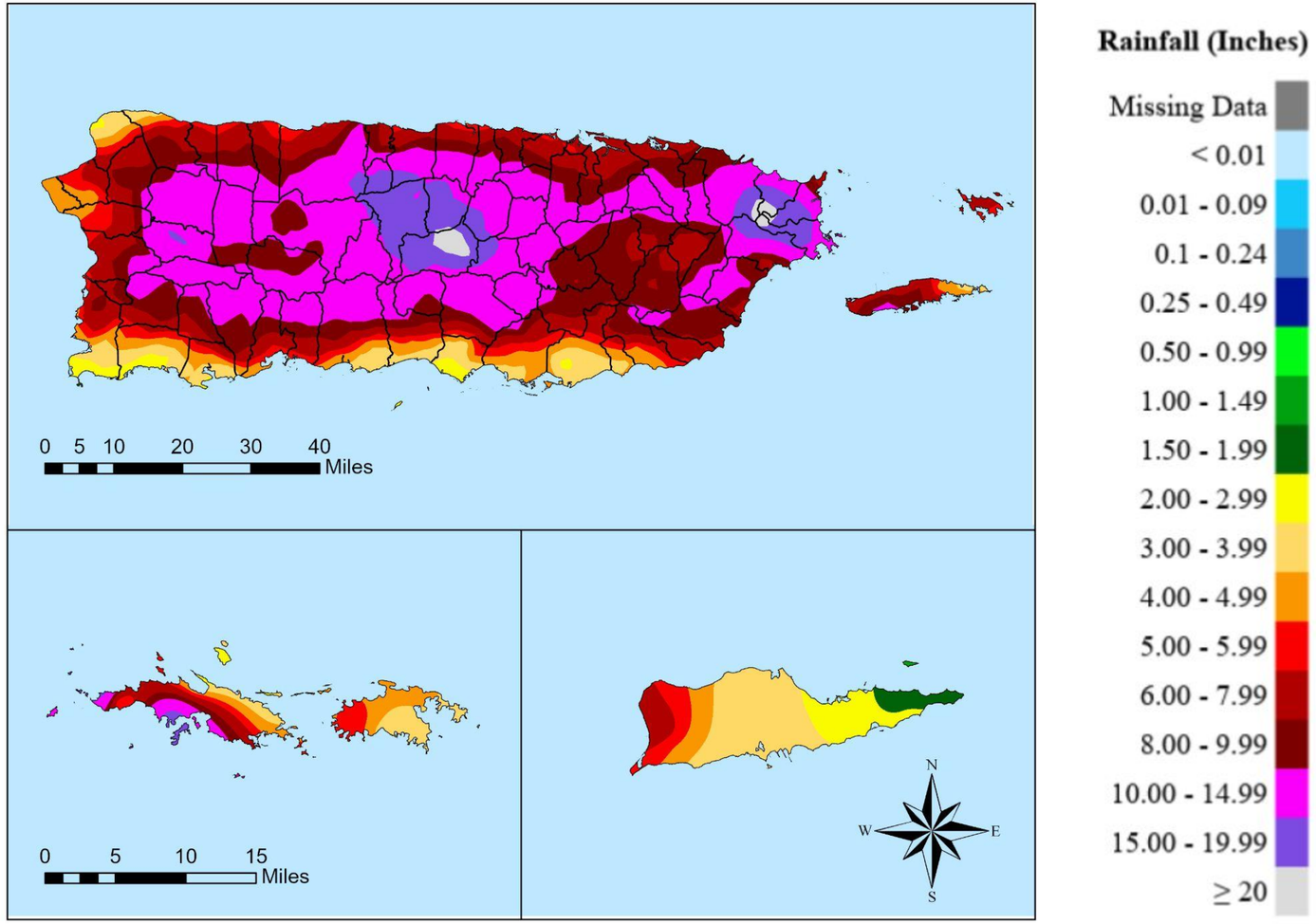


Image Captions:
Estimated Rainfall for the month of April. This map is courtesy of the NWS SJU GIS Team.

Departure from Normal Rainfall

Estimated Departure from normal was obtained from NWPS.

- Above-normal precipitation was observed across most of Puerto Rico, with a large central area showing a surplus of 5 to 8 inches or more.
- The most significant surplus was in Orocovis, where rainfall was about 10 to 15 inches above normal, peaking around 16 inches above normal in the area of highest rainfall.
- A slight rainfall deficit persists for the northwestern Puerto Rico.

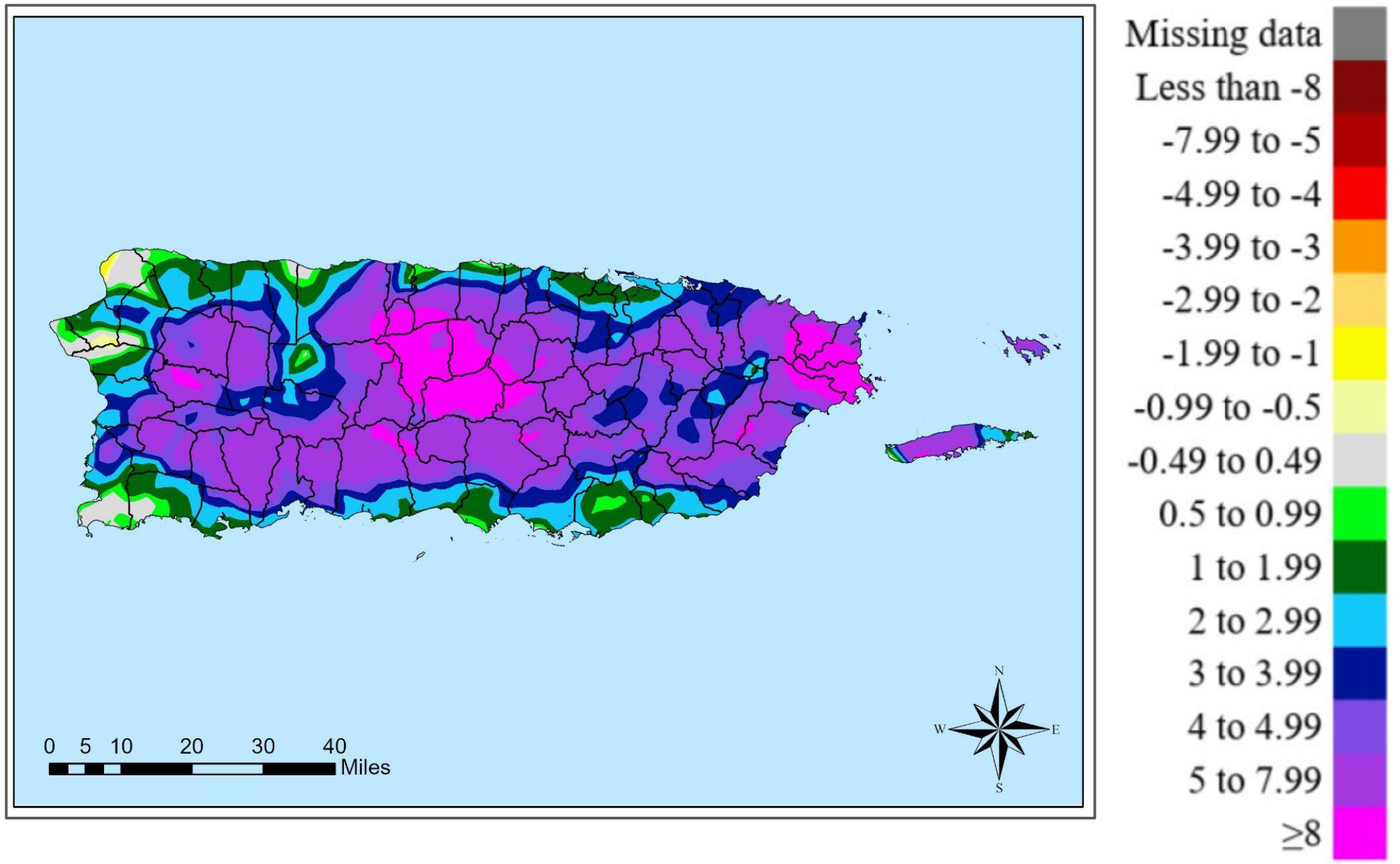


Image Captions:
Estimated Departure from Normal Rainfall for Puerto Rico during the month of April. This map is courtesy of the NWS SJU GIS Team.
*NWPS does not provide rainfall departure from normal for the USVI.

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 most 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)	2
Flood Watches (SJUFFASJU)	1
Flood Warnings (SJUFLWSJU)	12
Flash Flood Warnings (SJUFFWSJU)	20
Urban/Small Stream Flood Advisories (SJUFLSSJU)	98
Local Storm Reports (SJULSRSJU)	99

Latest Monthly Average Streamflow from USGS

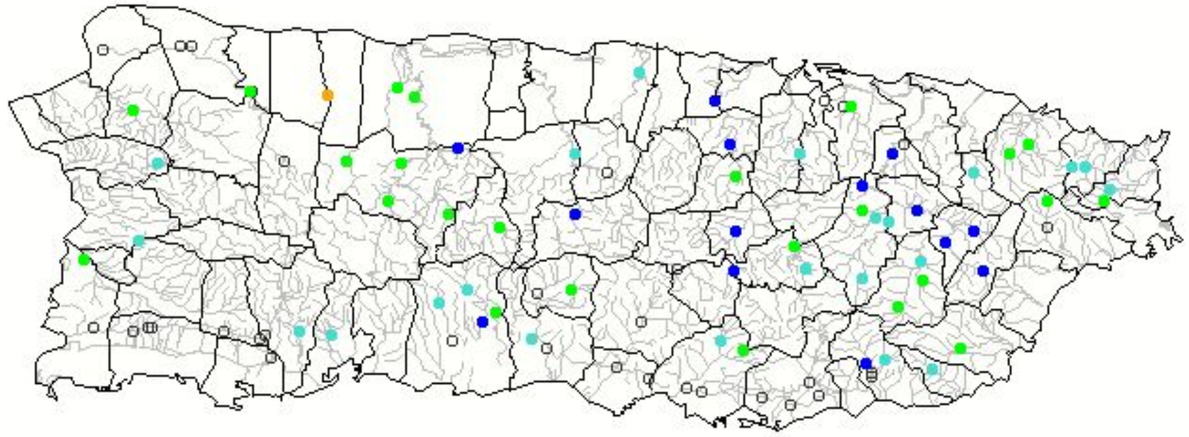
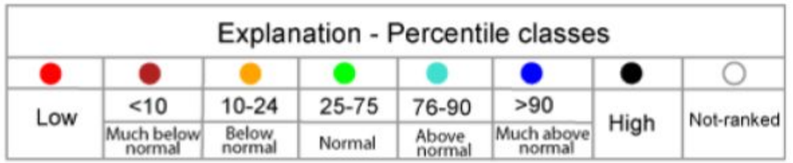


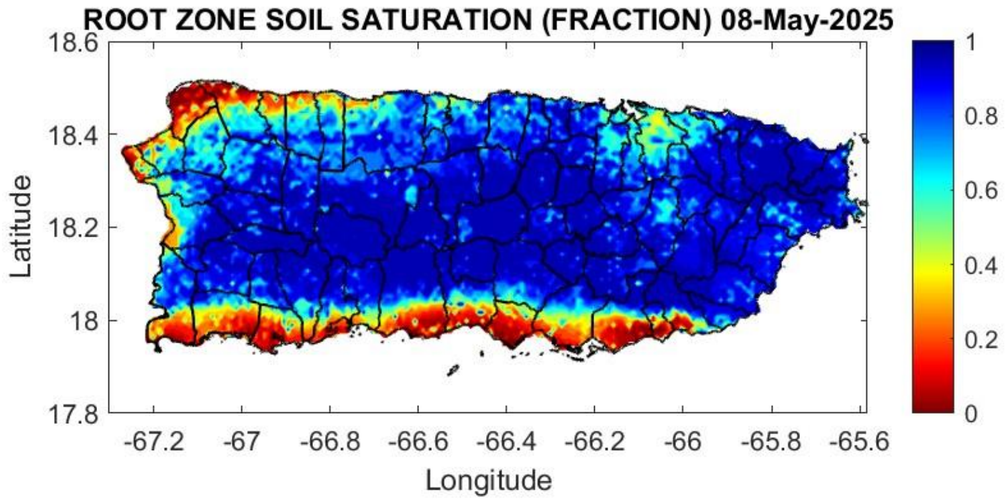
Image Caption: April 2025 compared to historical streamflows for Puerto Rico.



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 northwest corner.



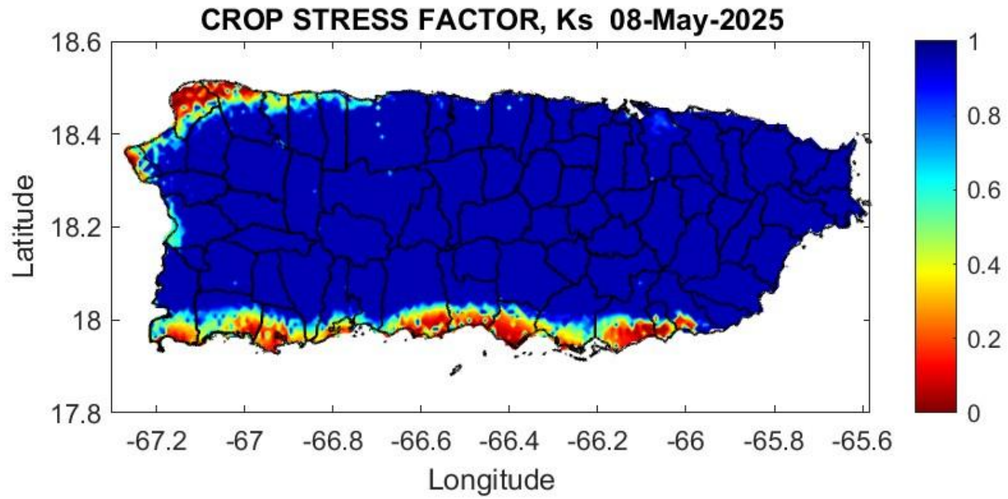
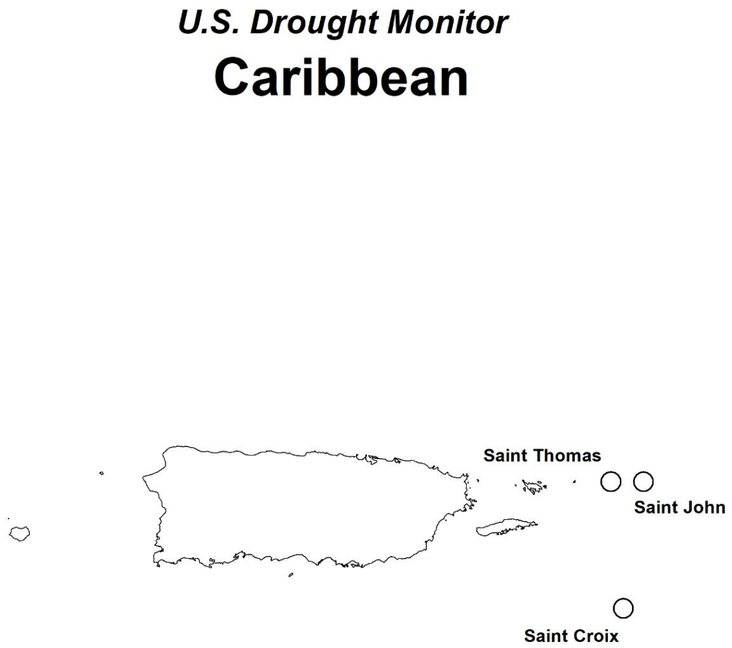


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high

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.



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week 04-29-2025	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 02-04-2025	100.00	0.00	0.00	0.00	0.00	0.00
Start of Calendar Year 01-07-2025	100.00	0.00	0.00	0.00	0.00	0.00
Start of Water Year 10-01-2024	97.00	3.00	0.00	0.00	0.00	0.00
One Year Ago 05-07-2024	100.00	0.00	0.00	0.00	0.00	0.00

Note: Statistics do not include areas represented by points.

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

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droughtmonitor.unl.edu

Image Caption: U.S. Drought Monitor valid 8am EDT May 8th, 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, conditions have improved to no drought across St. Thomas and St. John.

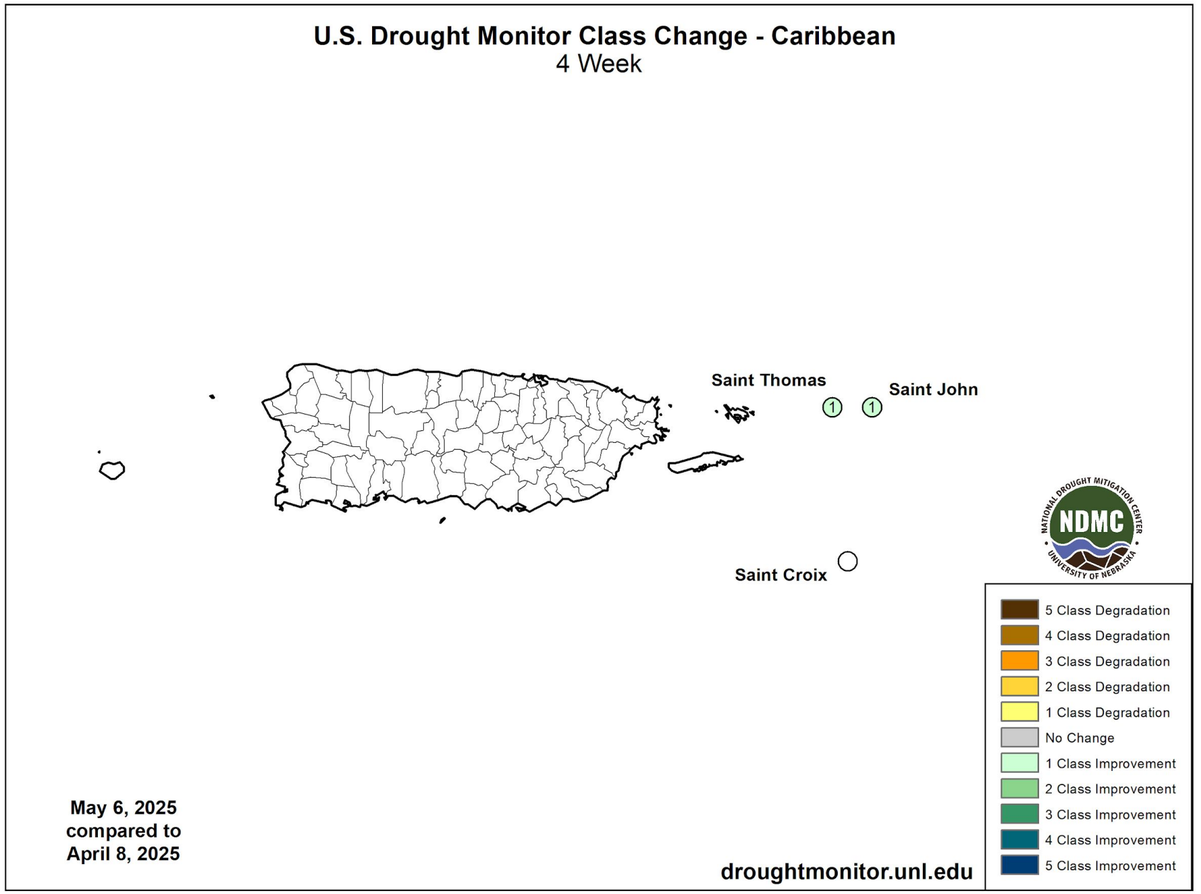

Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT May 6th, 2025.

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 near normal precipitation for the late spring into the summer months (June-July-August) across the northeastern Caribbean.

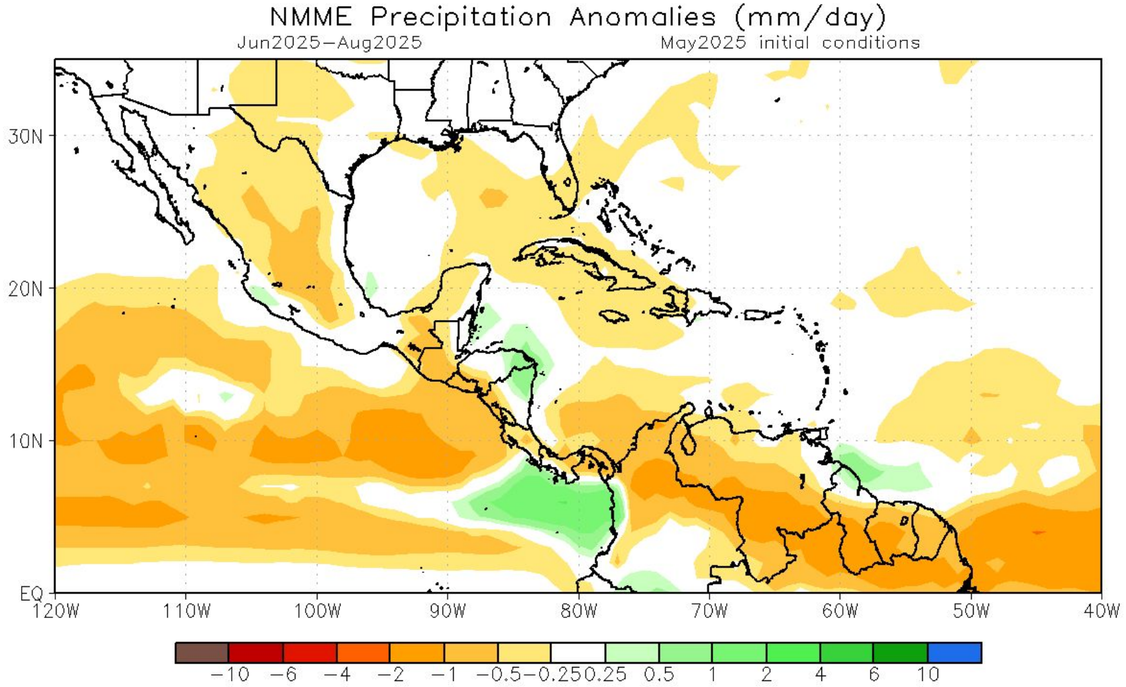

Image caption: NMME precipitation forecast issued May 2025. Valid June-July-August 2025.

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.

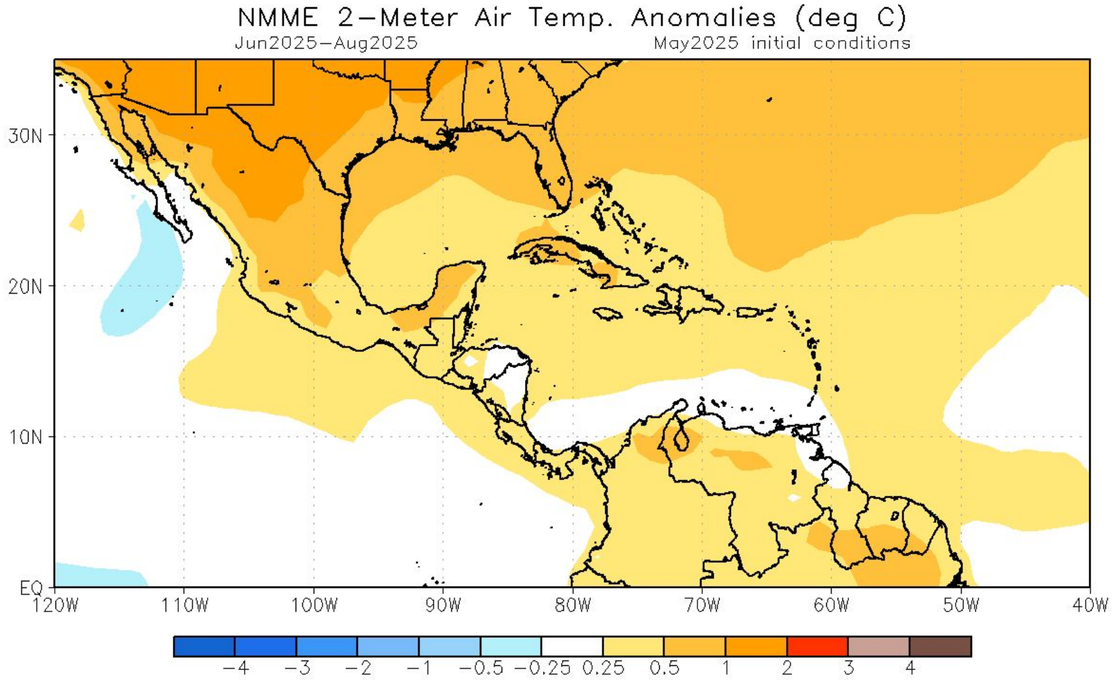

Image caption: NMME temperature forecast issued May 2025. Valid June-July-August 2025.

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.

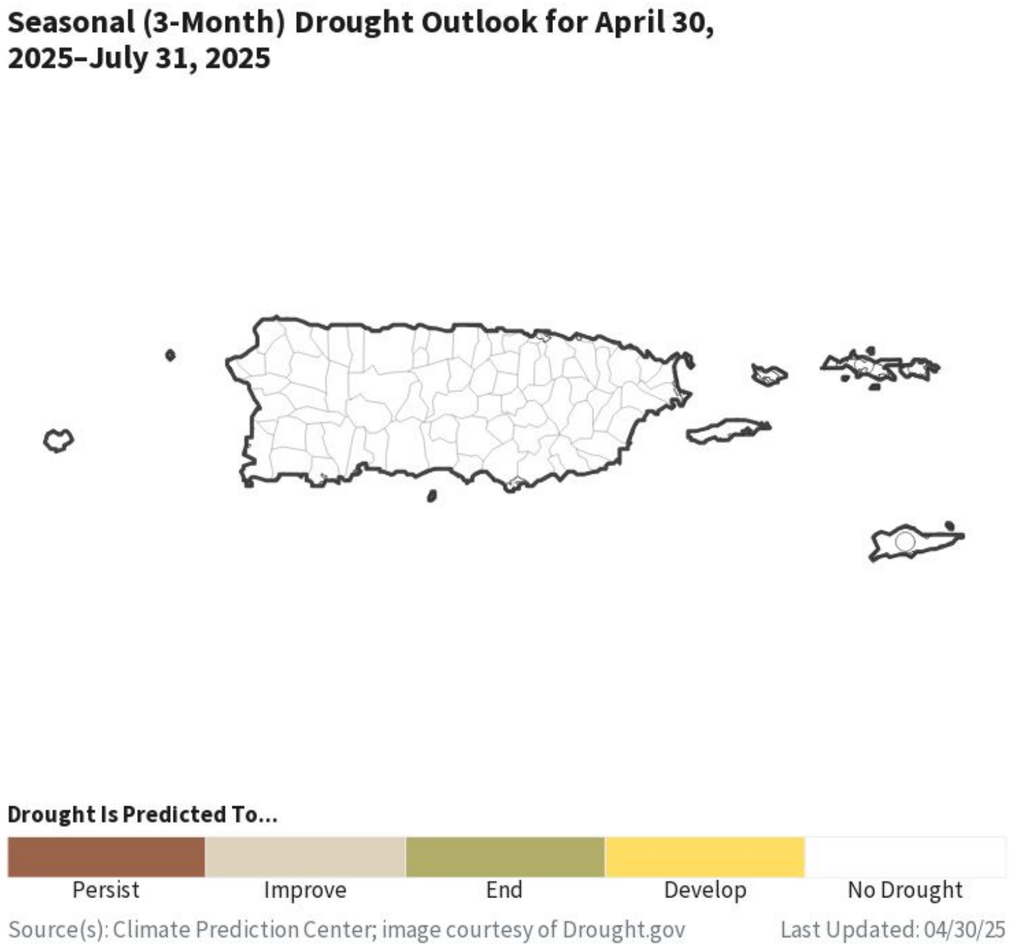

Image Caption: U.S. Seasonal Drought Outlook Valid for April 30th to July 31th 2025.