

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

Valid for August 2025

Issued By: WFO San Juan, PR

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August Climate Summary for Primary Climate Sites

San Juan Area

(Period of Record: 1898 to present)

Highest: **93 °F** on the 3, 19th
Lowest: **76 °F** on the 17, 23th
Average: 84.4 °F (+**0.9**; above normal)
Rain Total: 9.64" (+**3.35**; above normal)

Days with $T_{\max} \geq 90$ °F: 18
Nights with $T_{\min} \geq 80$ °F: 13
Days with Rain (≥ 0.01 "): 23

Rankings:

9th warmest
12th wettest

Remarks:

3 warmest minimum daily records.

St. Thomas

(Period of Record: 1953 to present)

Highest: **95 °F** on the 1, 24, 25th
Lowest: **76 °F** on the 17th
Average: 86.6 °F (+**1.9**; above normal)
Rain Total: Missing

Days with $T_{\max} \geq 90$ °F: 24
Nights with $T_{\min} \geq 80$ °F: 26
Days with Rain (≥ 0.01 "): 14

Rankings:

3rd warmest

Remarks:

Missing precipitation during Hurricane Erin
affected the rainfall total and its ranking.
3 days of temperature missing.
8 warmest minimum daily records.

St. Croix

(Period of Record: 1951 to present)

Highest: **93 °F** on the 13th
Lowest: **75 °F** on the 10th
Average: 84.0 °F (+**0.6**; above normal)
Rain Total: Missing

Days with $T_{\max} \geq 90$ °F: 18
Nights with $T_{\min} \geq 80$ °F: 4
Days with Rain (≥ 0.01 "): Missing

Rankings:

22nd warmest

Remarks:

One day of temperature missing.
Precipitation sensor remains inoperable.
One warmest minimum daily record.



August Climate Summary for COOP Climate Sites

Station	Highest	Lowest	Avg. Temp.	Departure from normal	Temp. Rank	Precip.	Departure from normal	Precip. Rank
<i>Adjuntas Substation</i>	M	M	M	M	M	M	M	M
<i>Aibonito 1 S</i>	86 °F	67 °F	76.5 °F	+1.5	3 rd warmest	9.61"	+4.07	15 th wettest
<i>Arecibo Observatory</i>	92 °F	66 °F	78.5 °F	+1.8	8 th warmest	8.51"	-1.02	21 st driest
<i>Coloso Aguada</i>	92 °F	71 °F	81.7°F	+0.8	9 th warmest	13.30"	+2.85	25 th wettest
<i>Dos Bocas</i>	M	M	M	M	M	M	M	M
<i>Guayama 1 SW</i>	96 °F	74 °F	84.0 °F	+0.3	21 st warmest	4.52"	-2.56	38 th driest
<i>Juncos 1 SE</i>	93 °F	72 °F	82.2 °F	+1.8	6 th warmest	4.03"	-3.19	11 th driest
<i>Magueyes Island</i>	94 °F	74 °F	84.3°F	+1.2	7 th warmest	4.18"	-0.14	15 th wettest
<i>Palmarejo Vega Baja</i>	91 °F	69 °F	79.2 °F	-1.2	3 rd coolest	9.22"	+4.41	5 th wettest
<i>Ponce 4 E</i>	97 °F	71 °F	M	M	M	M	M	M
<i>Toro Negro Forest</i>	M	M	M	M	M	M	M	M
<i>Trujillo Alto 2 SSW</i>	93 °F	72 °F	83.0 °F	+1.8	5 th warmest	9.13"	+1.60	21 st wettest

Records Began: Adjuntas (1970), Aibonito (1906), Arecibo (1980), Coloso (1899), Dos Bocas (1937), Guayama (1914 Temp & 1911 Precip), Juncos (1931), Magueyes (1959), Palmarejo (2009), Ponce (1898 Temp & 1899 Precip), Toro Negro (2002 Temp & 1982 Precip), Trujillo Alto (1957)



August Climate Summary for COOP Climate Sites

Station	Precip.	Departure from normal	Precip. Rank	Station	Precip.	Departure from normal	Precip. Rank
Aguirre	5.06"	-0.21	25 th wettest	Morovis 1 N	7.63"	+0.91	25 th wettest
Calero Camp	3.96"	-1.40	17 th driest	Paraíso	7.61"	-1.37	27 th driest
Corral Viejo Ponce	5.92"	-1.13	27 th wettest	Rincón	5.45"	M	24 th driest
Ensenada	M	M	M	Río Blanco Lower	9.10"	-1.13	19 th driest
Guajataca Dam	5.53"	-1.89	21 st driest	Sabana Grande 2 ENE	8.10"	+1.22	17 th wettest
Hacienda Constanza	10.67"	M	5 th driest	Yabucoa 3 SE	5.78"	M	M
Isabela Substation	3.56"	-3.17	25 th driest	Beth Upper New Works	M	M	M
Jájome Alto	4.10"	-4.29	10 th driest	Christiansted Fort	2.20"	-1.68	15 th driest
Juana Díaz Camp	4.49"	-0.47	45 th driest	Cruz Bay	7.44"	M	6 th wettest
Manatí 2 E	5.99"	+0.63	42 th wettest	East End	8.73"	+4.37	3 rd wettest
Maricao Fish Hatchery	11.86"	-1.07	33 th driest	East Hill	1.41"	-1.70	5 th driest
Mora Camp	3.13"	-2.57	12 th driest	Montpellier	0.97"	-3.09	3 rd driest

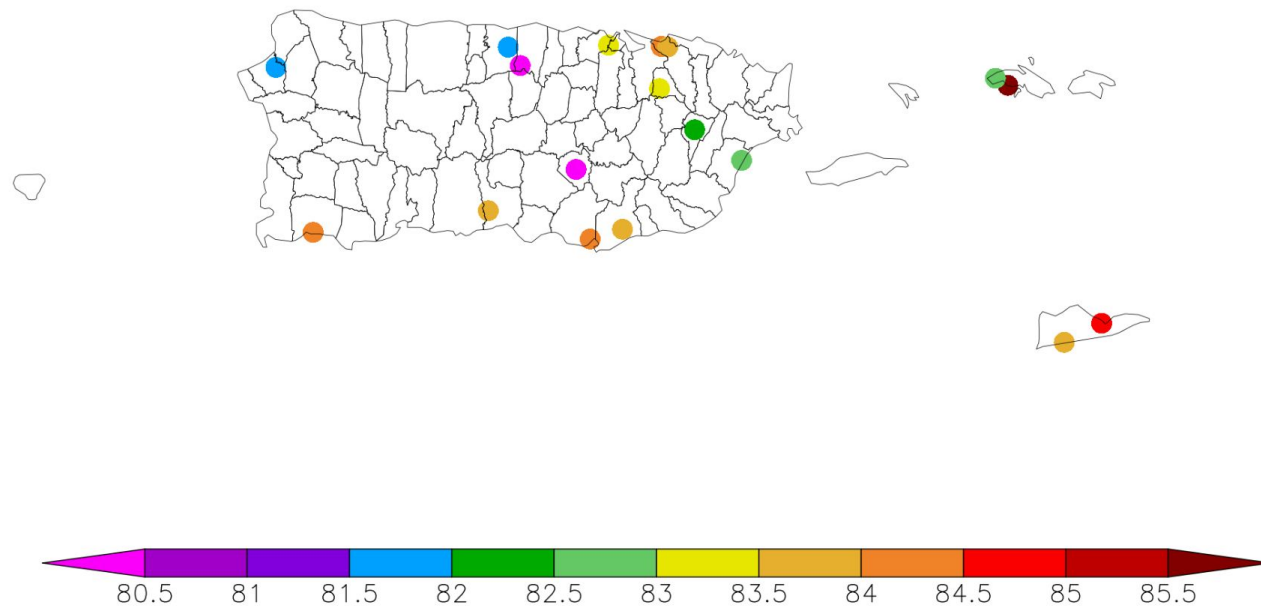
Records Began: Aguirre (1955), Calero Camp (1955), Corral Viejo (1970), Ensenada (1955), Guajataca Dam (1955), Hacienda Constanza (2011), Isabela Subs (1901), Jajome Alto (1955), Juana Díaz Camp (1931), Manatí 2 E (1900), Maricao Fish Hatchery (1955), Mora Camp (1955), Morovis 1 N (1956), Paraíso (1956), Rincón (1969), Río Blanco Lower (1955), Sabana Grande 2 ENE (1907), Yabucoa 3 SE (2023), Beth Upper New Works (1972), Christiansted Fort (1921), Cruz Bay (1972), East End (1972), East Hill (1972), Montpellier (1979)



Observed Temperature

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

Temperature (F)
8/1/2025 – 8/31/2025

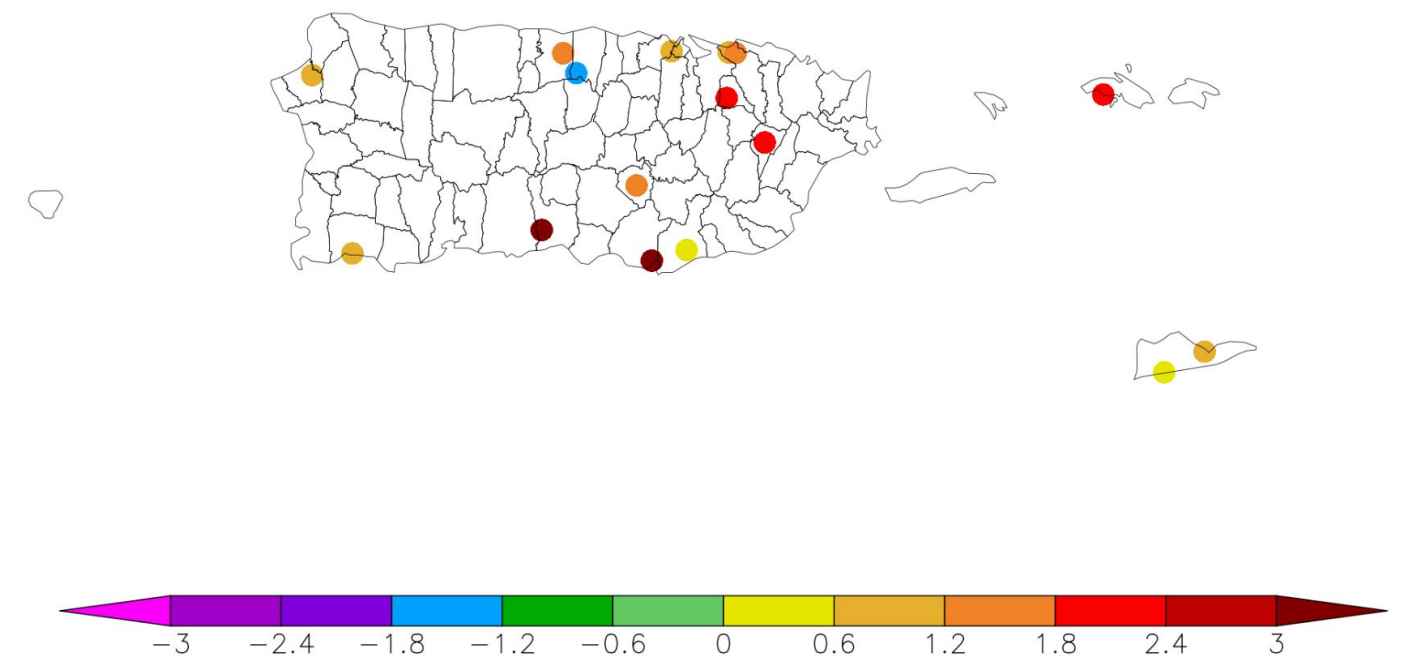


Generated 9/6/2025 using provisional data.

ACIS Web Services

- Temperatures across the majority of local sites have been mostly above normal, with one exception along the north-central coast of Puerto Rico. The COOP station in Puerto Rico with the highest daily maximum temperature was **Lajas Substation**, which recorded **97°F**. In the U.S. Virgin Islands, the COOP station with the highest daily maximum temperature was **Bordeaux**, registering **93°F**.

Departure from Normal Temperature (F)
8/1/2025 – 8/31/2025



Generated 9/6/2025 using provisional data.

ACIS Web Services

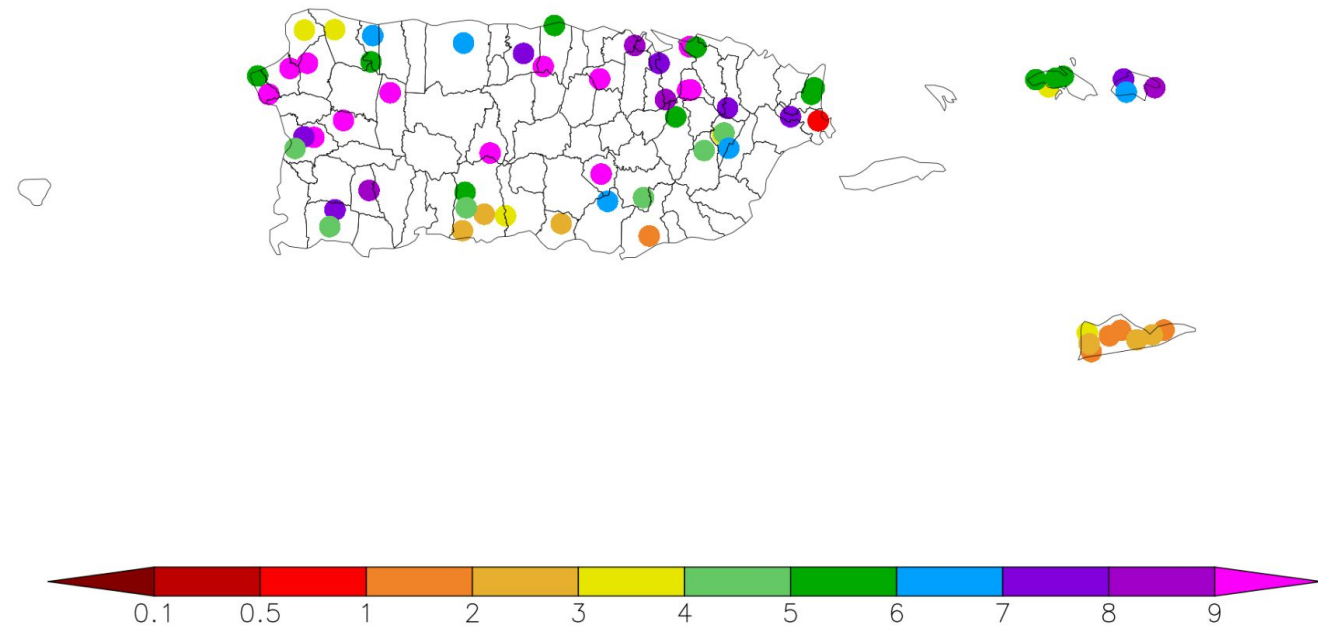
Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.



Observed Rainfall

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

Precipitation (in)
8/1/2025 – 8/31/2025

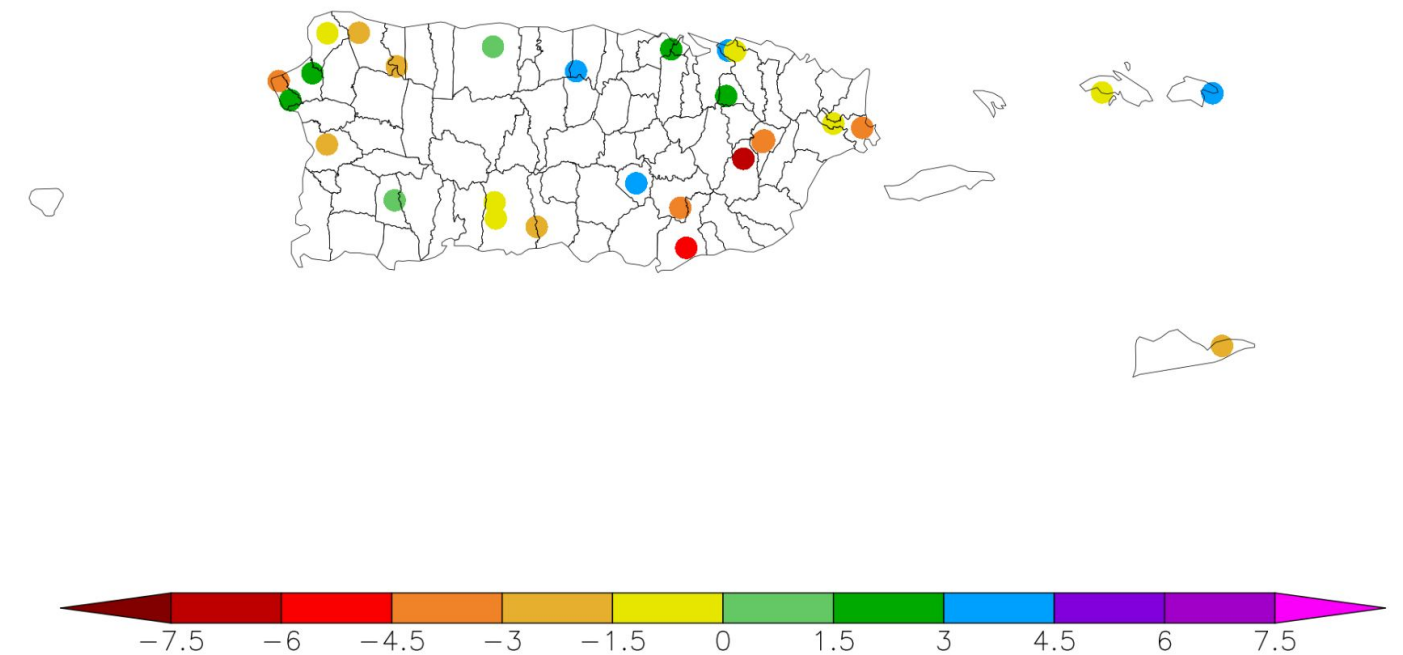


Generated 9/6/2025 using provisional data.

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 interior regions of Puerto Rico and in St. John. The COOP station with the highest monthly rainfall accumulation was **Coloso at Aguada**, with **13.30"**. The CoCoRaHS station with the highest monthly rainfall accumulation was **Lares 1.6 SSW** with **16.17"**.

Departure from Normal Precipitation (in)
8/1/2025 – 8/31/2025



Generated 9/6/2025 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)

- Rainfall estimates ranged from 10 to 20 inches across the western interior and western Puerto Rico. Some portions of the northeast also registered over 10 inches of precipitation.
- Along the eastern interior, the southern and northern plains, amounts were in the order of 5 to 10 inches.
- In U.S. Virgin Islands, the heaviest rainfall occurred over St. Thomas and St. John, with widespread 4–8 inches and isolated pockets up to around 9 inches. These larger totals were produced by feeder bands from Major Hurricane Erin passing to the north of the islands.
- Across St. Croix, amounts were lighter and more variable, generally 1–3 inches, with a few interior/west-central spots near 3–4 inches.

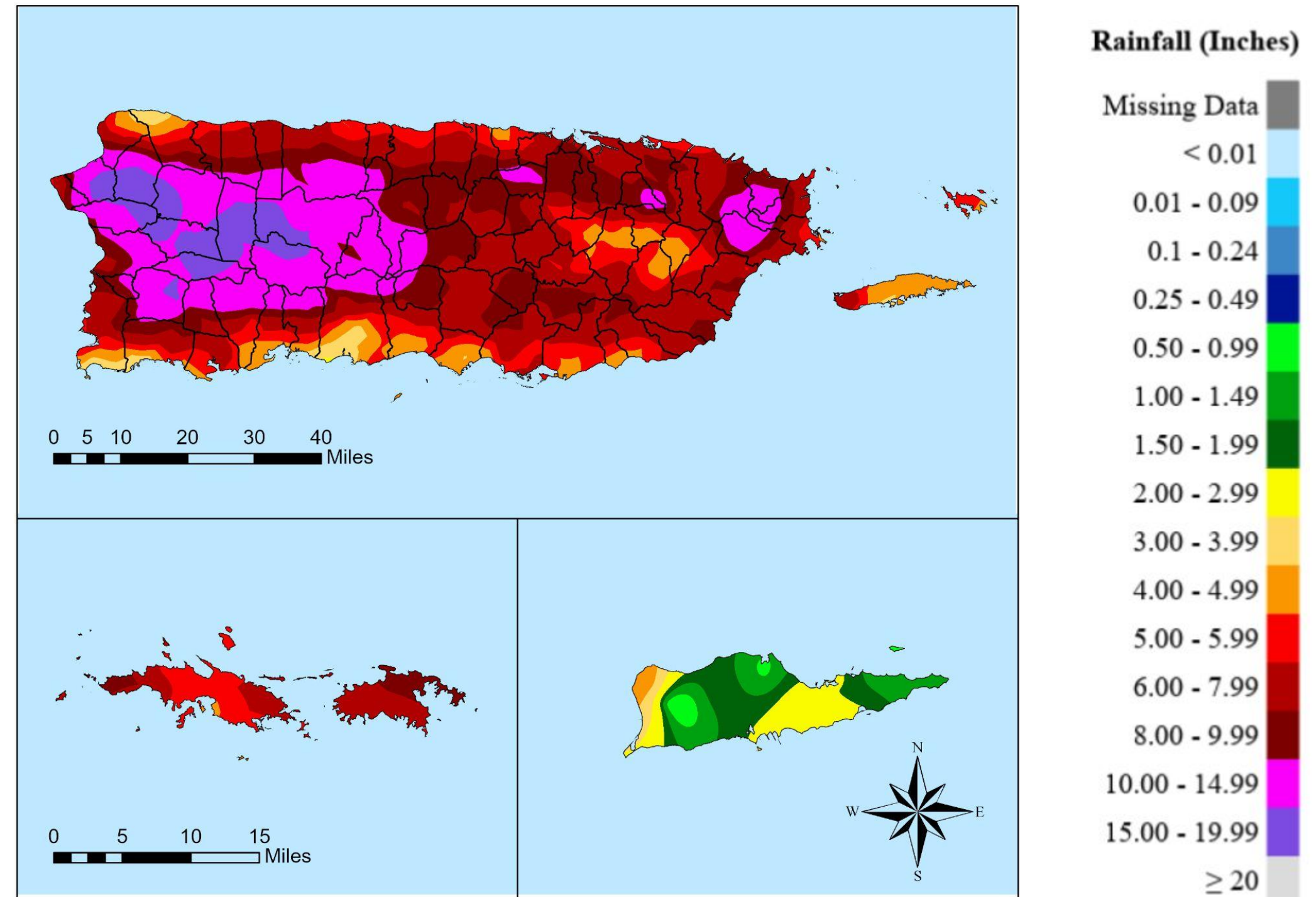


Image Captions:
Estimated Rainfall for the month of August. This map is courtesy of the NWS SJU GIS Team.



Departure from Normal Rainfall

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

- Most portions of eastern Puerto Rico and the extreme northwest and southwest corners ended drier than normal.
- In contrast, the north-central, western interior and western Puerto Rico were wetter than normal.
- For the Virgin Islands: although St. Thomas ended drier than normal, this was likely due to sensor malfunctioning as Hurricane Erin moved over the region.

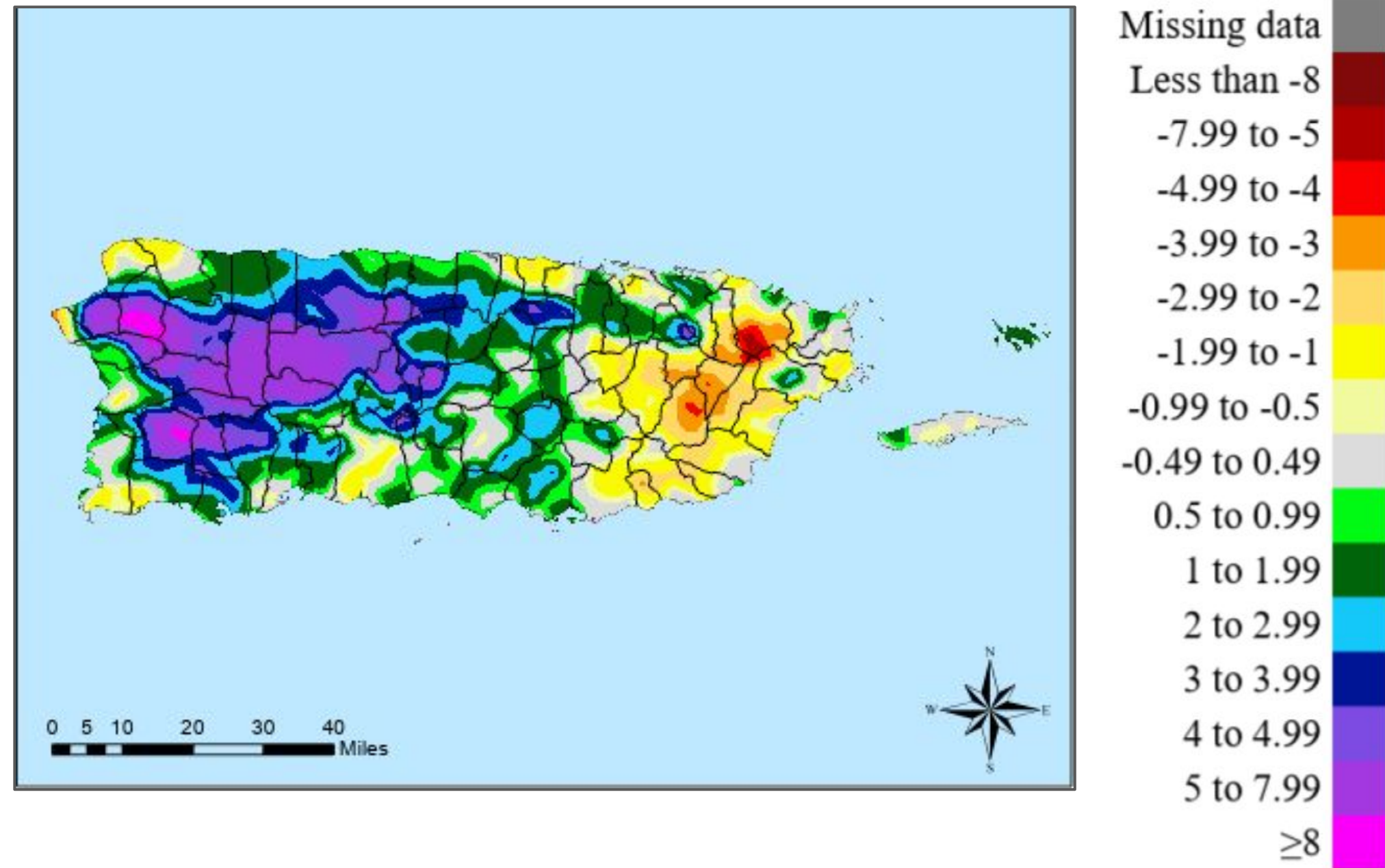


Image Captions:

Estimated Departure from Normal Rainfall for Puerto Rico during the month of August. 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 are now appearing in the east. For Reservoir levels, click [here](#). For selected USGS monitored wells across southern Puerto Rico, click [here](#).

Non-Routine Hydrologic Products	Products issued for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	1
Flood Warnings (SJUFLWSJU)	2
Flash Flood Warnings (SJUFFWSJU)	7
Urban/Small Stream Flood Advisories (SJUFLSSJU)	49
Local Storm Reports (SJULSRSJU)	63

Latest Monthly Average Streamflow from USGS

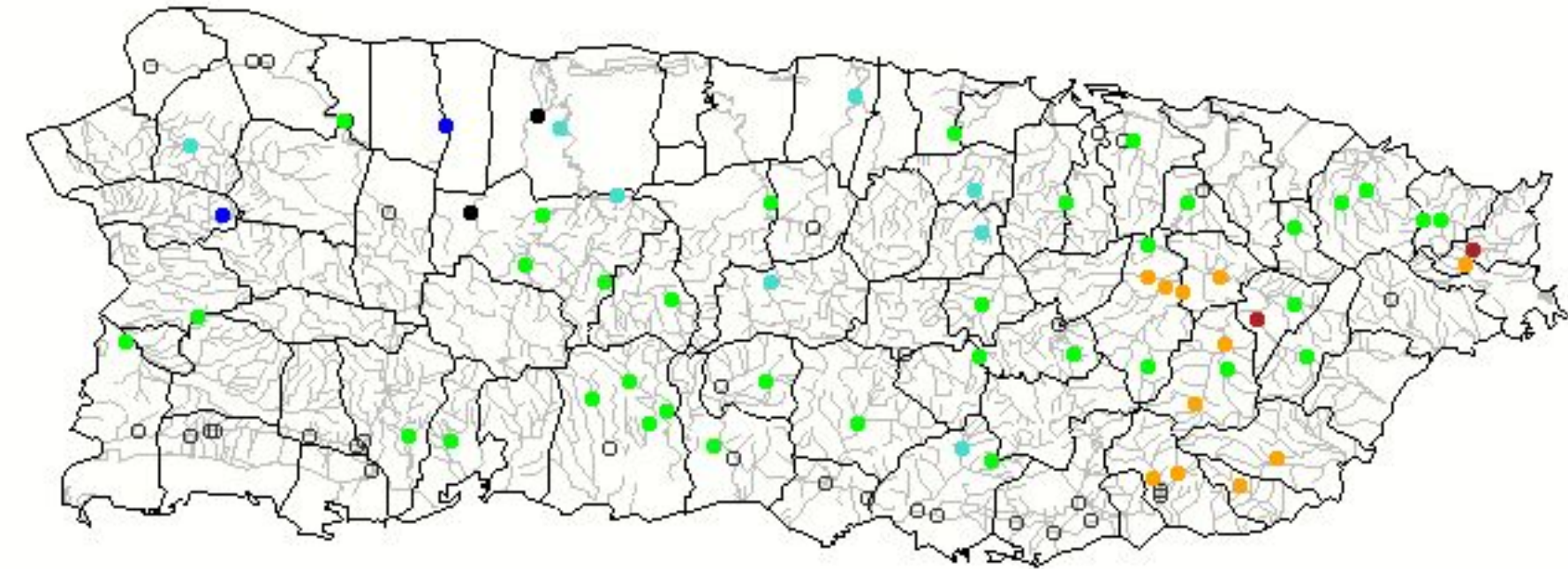


Image Caption: August 2025 compared to historical streamflows for Puerto Rico.

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 indicating drier conditions (in red and orange) mainly across the southern plains, the eastern interior, and portions of the north coast. The same areas show vegetation stress. Some portions of eastern, south-eastern and western interior of Puerto Rico show saturated soils, with little to no-vegetation stress observed.

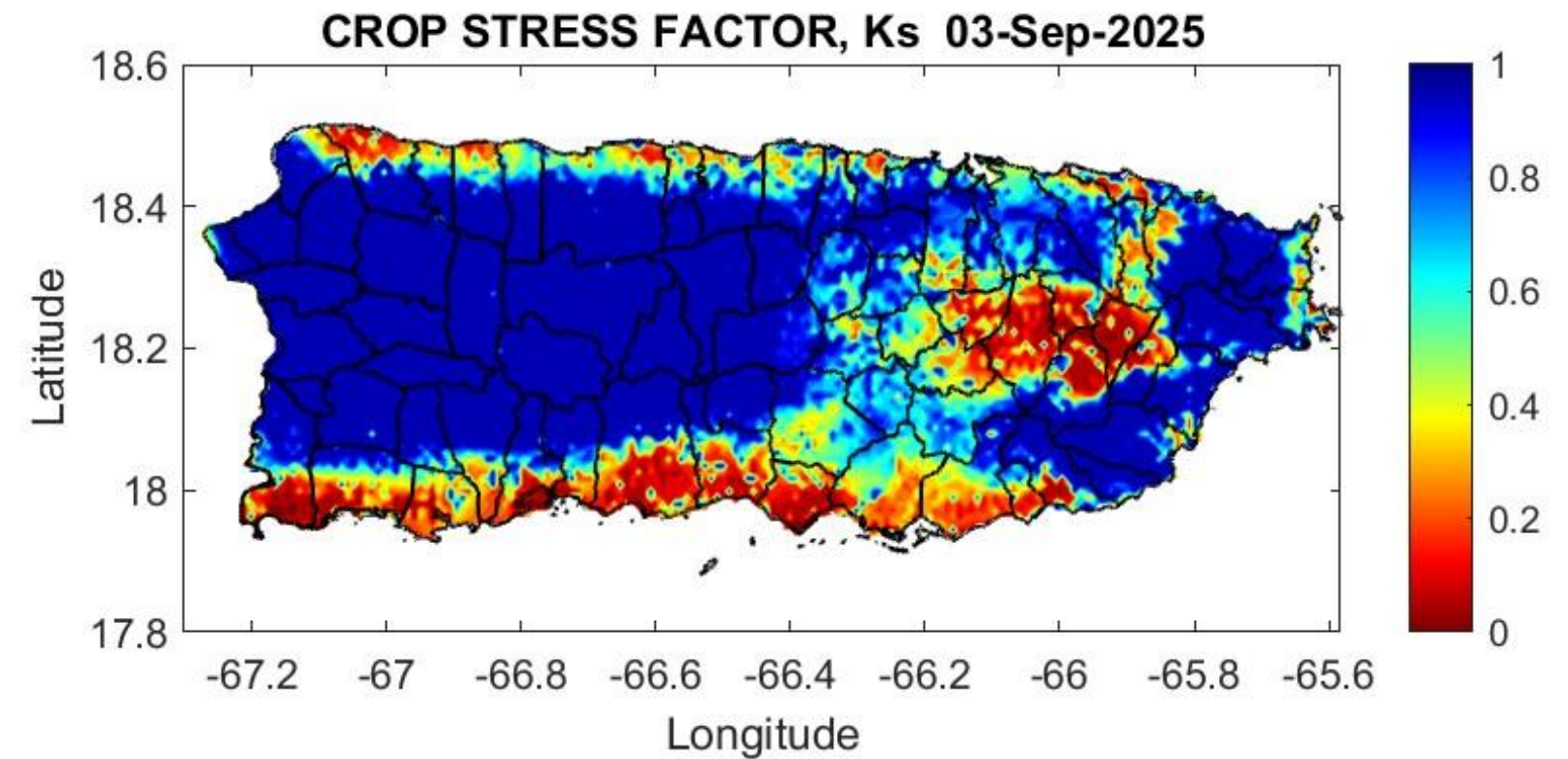
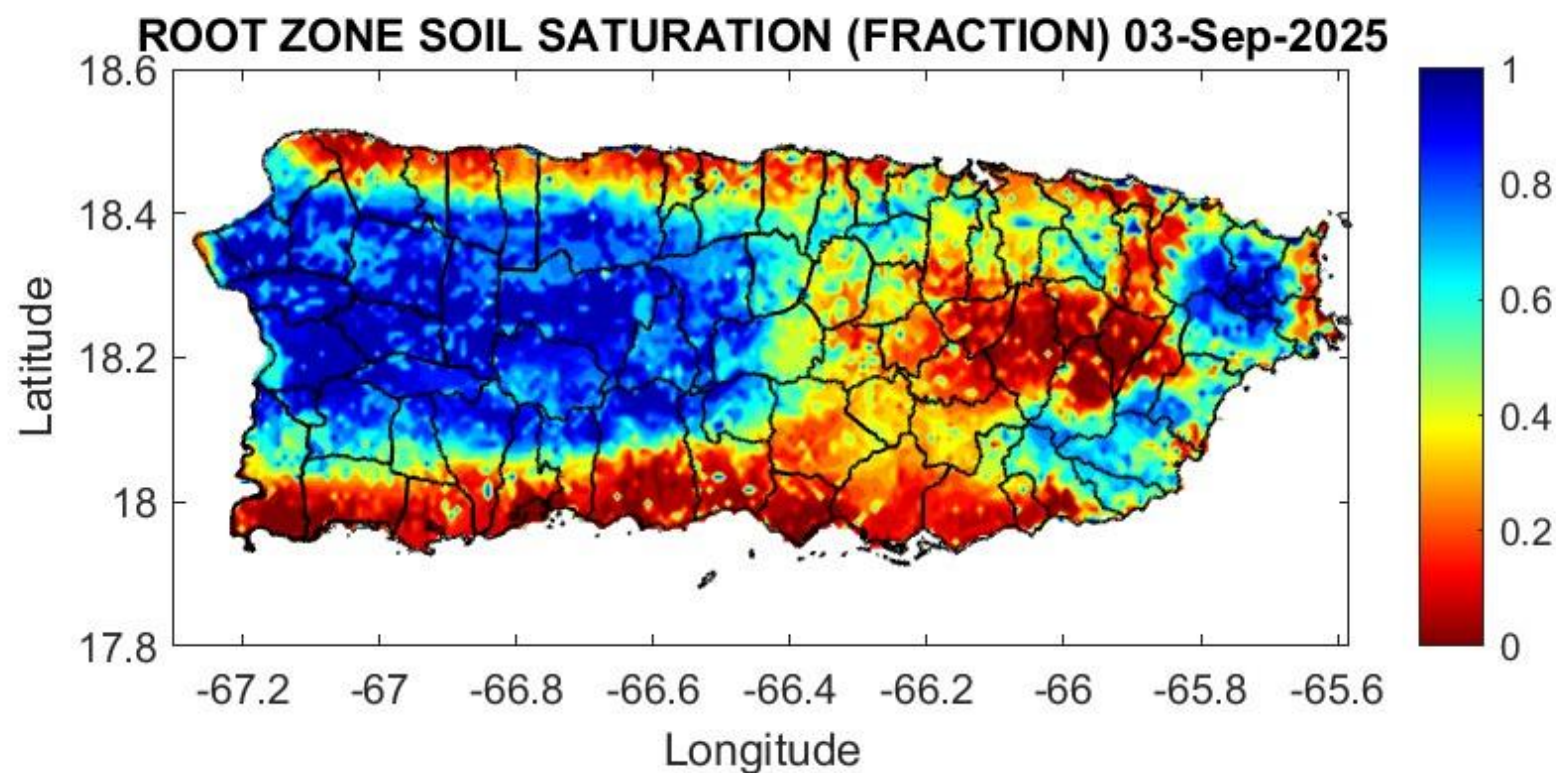


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high



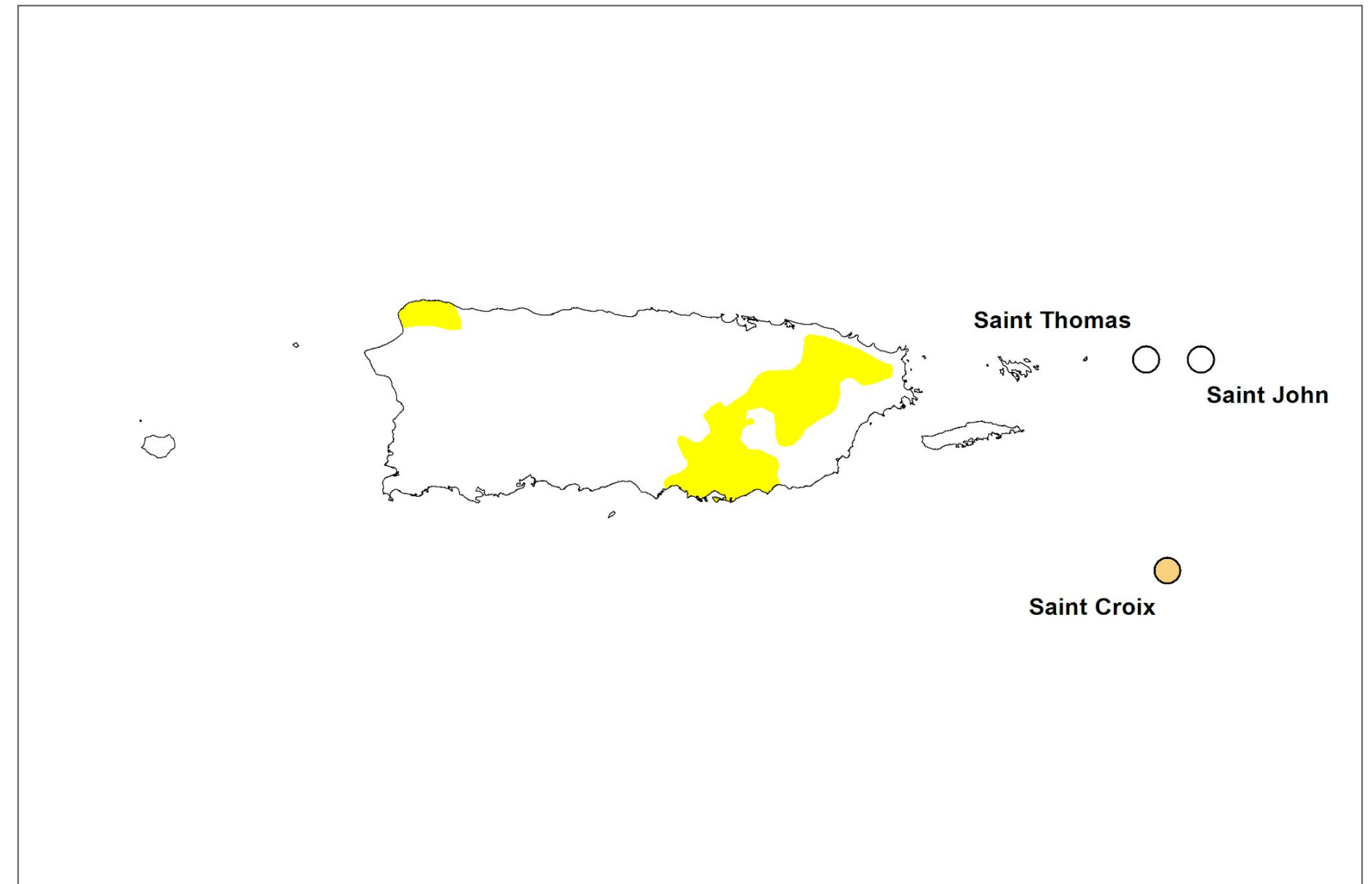
U.S. Drought Monitor

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

DROUGHT CONDITIONS:

Abnormally Dry conditions (D0) are currently observed across portions of the northwest, southeast and eastern interior of Puerto Rico.

Below than normal precipitation, as well as decreasing water amounts along wells in St. Croix led to the continuation of Moderate Drought (D1) conditions.



U.S. Drought Monitor



Image Caption: U.S. Drought Monitor valid 8am EDT September 2nd, 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 degradation have been implemented for portions of the northeast and eastern interior.
- One class improvement was observed in St. John, northwest, southwest and south-central Puerto Rico.
- Two classes improvement was observed in St. Thomas.

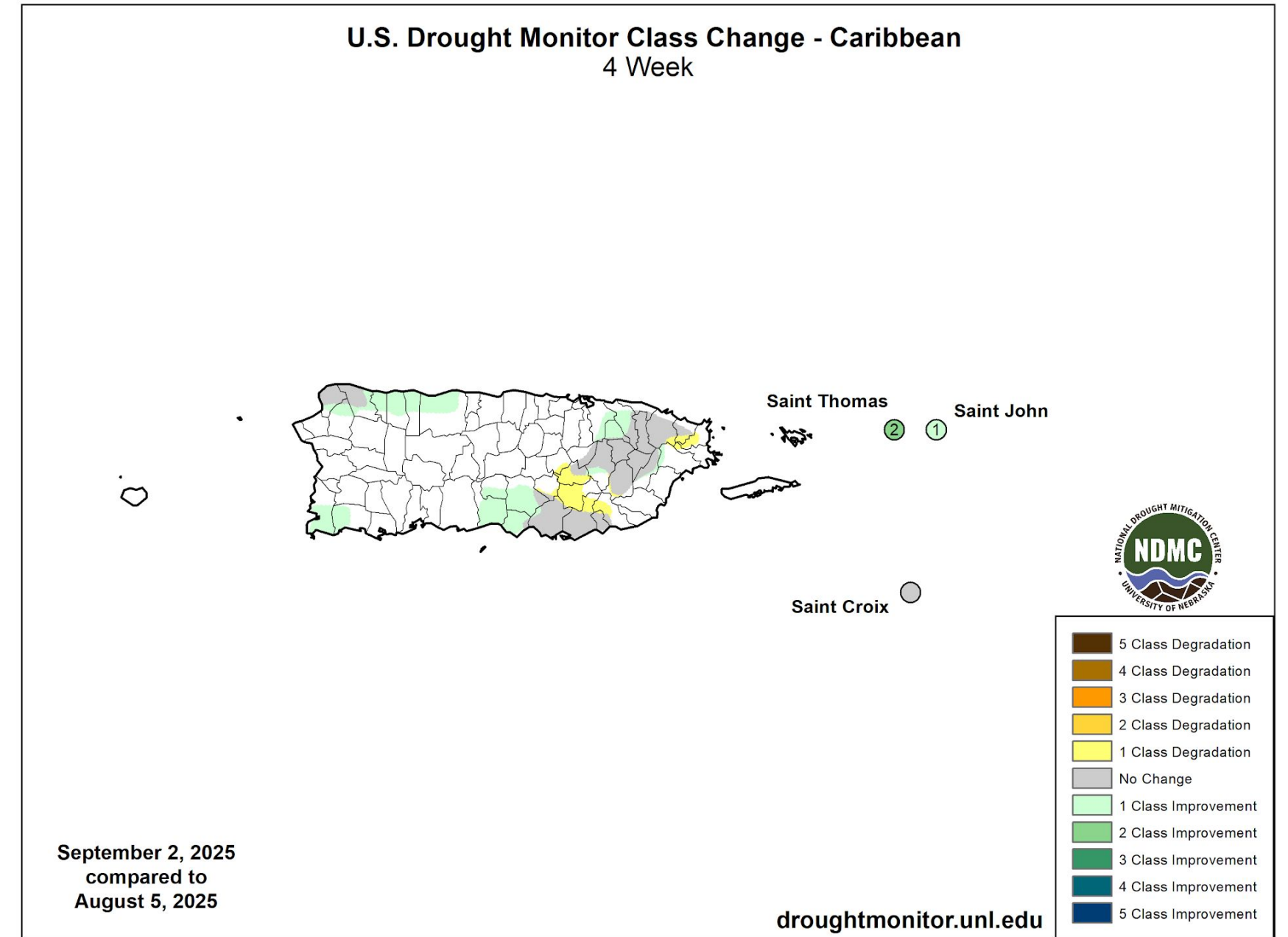


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT Sep 2nd, 2025.



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 a [40–50%](#) chance of above-normal precipitation during the fall and early winter months (October–November–December) across the northeastern Caribbean.

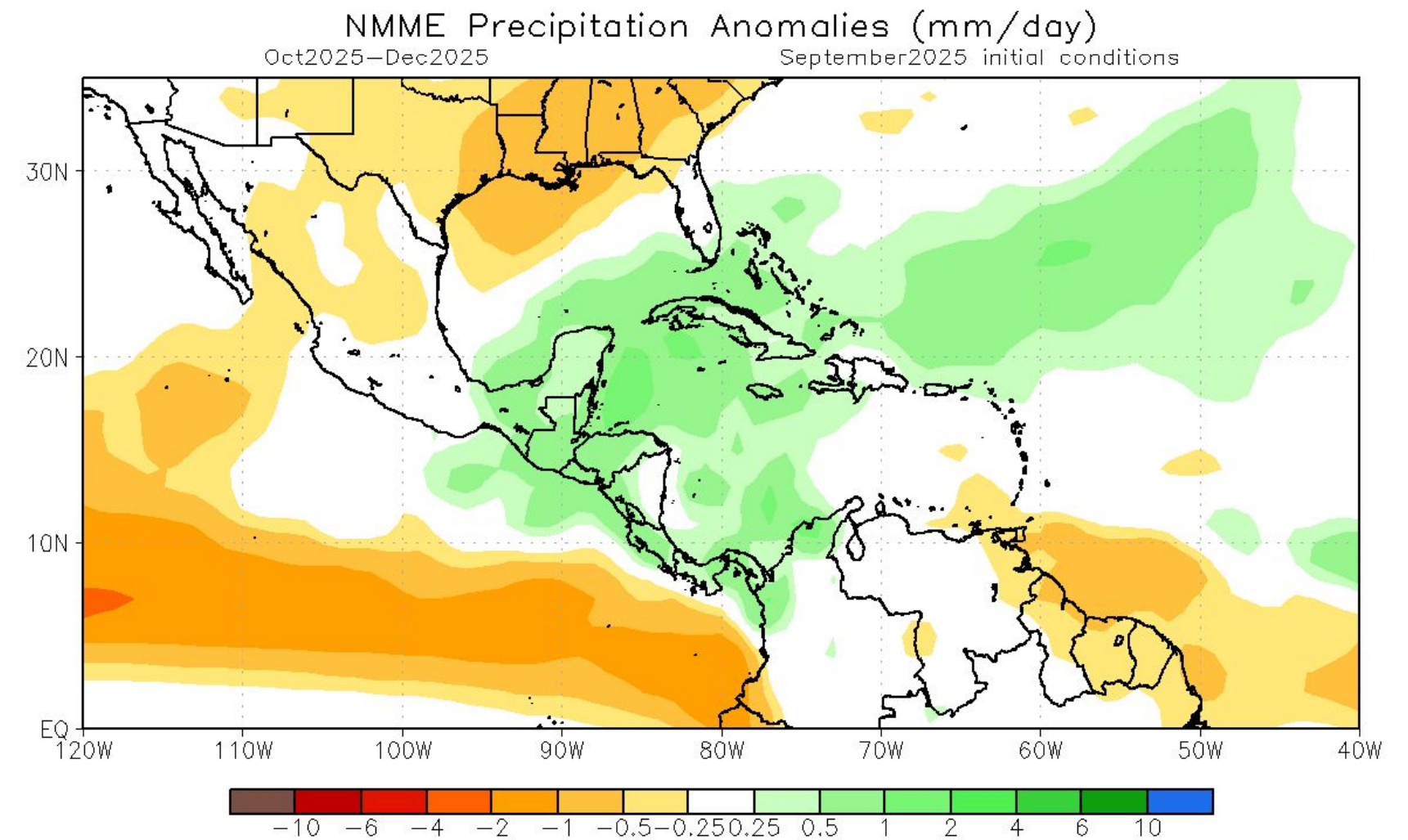


Image caption: NMME precipitation forecast issued September 2025. Valid October–November–December 2025.



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 70% or greater chance of above-normal temperatures during the fall and early winter months (October–November–December) across the northeastern Caribbean.

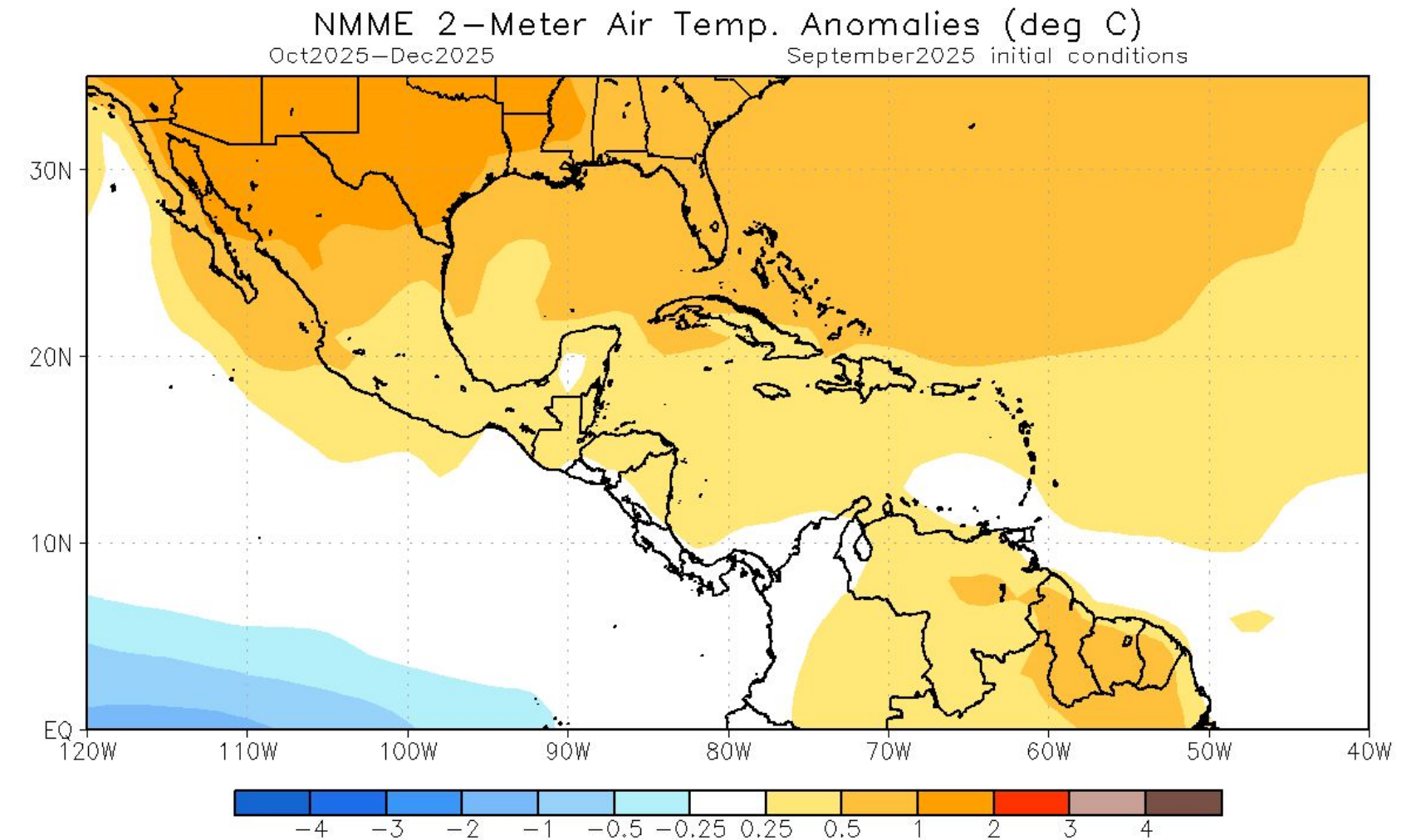


Image caption: NMME temperature forecast issued September 2025. Valid October–November–December 2025.

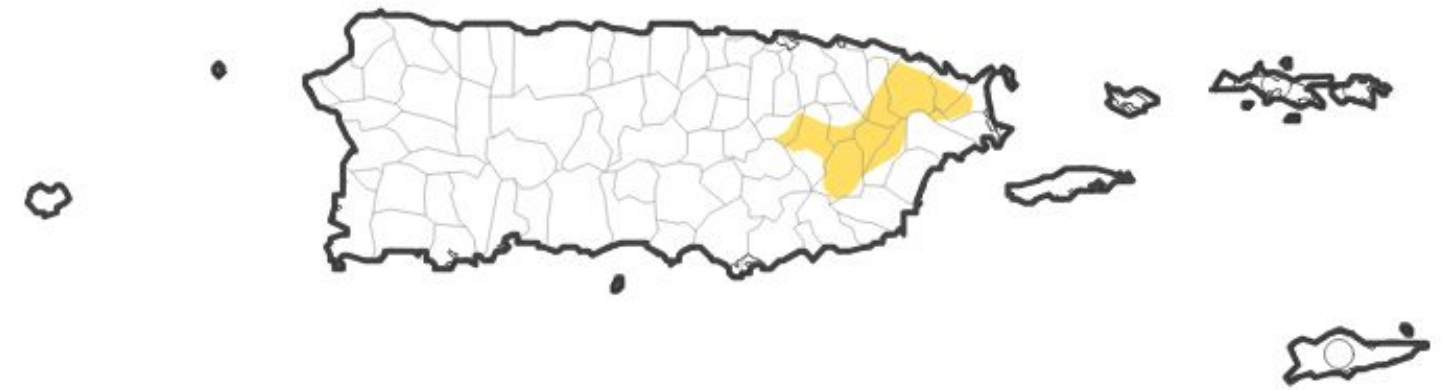


Long Range Drought Outlook

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

**Seasonal (3-Month) Drought Outlook for August 31,
2025–November 30, 2025**

- Based on the expected conditions, drought is likely to develop across portions of eastern Puerto Rico, while no drought is expected to develop in the Virgin Islands over the upcoming three months.



Drought Is Predicted To...



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

Last Updated: 08/31/25

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