

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

Valid for July 2025

Issued By: WFO San Juan, PR

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July Climate Summary for Primary Climate Sites

San Juan Area

(Period of Record: 1898 to present)

Highest: **92 °F** on the 5th
Lowest: **76 °F** on the 8, 19th
Average: 83.7 °F (**+0.6**; above normal)
Rain Total: 5.57" (**-0.45**; below normal)

Days with $T_{\max} \geq 90$ °F: 12
Nights with $T_{\min} \geq 80$ °F: 4
Days with Rain (≥ 0.01 "): 28

Rankings:

14th warmest
56th wettest

Remarks:

St. Thomas

(Period of Record: 1953 to present)

Highest: **95 °F** on the 23rd
Lowest: **76 °F** on the 8th
Average: 85.2 °F (**+0.7**; above normal)
Rain Total: 1.20" (**-1.71**; below normal)

Days with $T_{\max} \geq 90$ °F: 23
Nights with $T_{\min} \geq 80$ °F: 18
Days with Rain (≥ 0.01 "): 15

Rankings:

9th warmest
13th driest

Remarks:

St. Croix

(Period of Record: 1951 to present)

Highest: **91 °F** on the 23rd
Lowest: **75 °F** on the 13, 14th
Average: 82.8 °F (**-0.4**; below normal)
Rain Total: Missing

Days with $T_{\max} \geq 90$ °F: 5
Nights with $T_{\min} \geq 80$ °F: 3
Days with Rain (≥ 0.01 "): 12

Rankings:

19th coolest

Remarks:

Precipitation sensor became inoperable after the 22nd.



July Climate Summary for COOP Climate Sites

Station	Highest	Lowest	Avg. Temp.	Departure from normal	Temp. Rank	Precip.	Departure from normal	Precip. Rank
Adjuntas Substation	90 °F	60 °F	74.5 °F	+0.4	13 th warmest	3.08"	-2.66	10 th driest
Aibonito 1 S	88 °F	67 °F	76.0 °F	+1.3	6 th warmest	4.44"	-0.21	37 th wettest
Arecibo Observatory	94 °F	66 °F	77.9 °F	+1.5	20 th warmest	5.19"	-1.68	18 th driest
Coloso Aguada	93 °F	70 °F	81.1°F	+0.4	12 th warmest	8.17"	-0.97	44 th driest
Dos Bocas	M	M	M	M	M	M	M	M
Guayama 1 SW	95 °F	73 °F	83.7 °F	+0.1	19 th warmest	2.13"	-3.33	12 th driest
Juncos 1 SE	92 °F	72 °F	81.3 °F	+1.2	19 th warmest	3.26"	-3.78	17 th driest
Magueyes Island	93 °F	74 °F	84.2°F	+1.0	8 th warmest	1.20"	-1.47	29 th driest
Palmarejo Vega Baja	89 °F	68 °F	78.3 °F	-2.0	2 nd coolest	4.81"	-0.13	9 th driest
Ponce 4 E	95 °F	71 °F	83.2 °F	+2.9	11 th warmest	3.83"	+0.99	24 th wettest
Toro Negro Forest	86 °F	63 °F	74.5 °F	M	5 th warmest	2.70"	-2.70	13 th driest
Trujillo Alto 2 SSW	93 °F	72 °F	82.3 °F	+1.3	11 th warmest	2.72"	-4.39	9 th driest

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)



July Climate Summary for COOP Climate Sites

Station	Precip.	Departure from normal	Precip. Rank	Station	Precip.	Departure from normal	Precip. Rank
<i>Aguirre</i>	2.77"	-0.83	34 th driest	<i>Morovis 1 N</i>	1.98"	-3.33	7 th driest
<i>Calero Camp</i>	M	M	M	<i>Paraíso</i>	M	M	M
<i>Corral Viejo Ponce</i>	M	M	M	<i>Rincón</i>	8.42"	M	11 th wettest
<i>Ensenada</i>	1.37"	-0.68	34 th driest	<i>Río Blanco Lower</i>	6.23"	-2.99	14 th driest
<i>Guajataca Dam</i>	M	M	M	<i>Sabana Grande 2 ENE</i>	4.09"	-0.67	24 th driest
<i>Hacienda Constanza</i>	10.37"	M	7 th wettest	<i>Yabucoa 3 SE</i>	1.98"	M	M
<i>Isabela Substation</i>	4.31"	-0.73	60 th driest	<i>Beth Upper New Works</i>	M	M	M
<i>Jájome Alto</i>	4.10"	-2.94	15 th driest	<i>Christiansted Fort</i>	1.39"	-2.77	10 th driest
<i>Juana Díaz Camp</i>	2.64"	-0.39	44 th wettest	<i>Cruz Bay</i>	2.15"	M	15 th driest
<i>Manatí 2 E</i>	3.09"	-2.26	26 th driest	<i>East End</i>	2.15"	-1.78	23 th driest
<i>Maricao Fish Hatchery</i>	10.89"	+2.87	22 th wettest	<i>East Hill</i>	1.06"	-1.68	8 th driest
<i>Mora Camp</i>	M	M	M	<i>Montpellier</i>	3.23"	-0.53	20 th driest

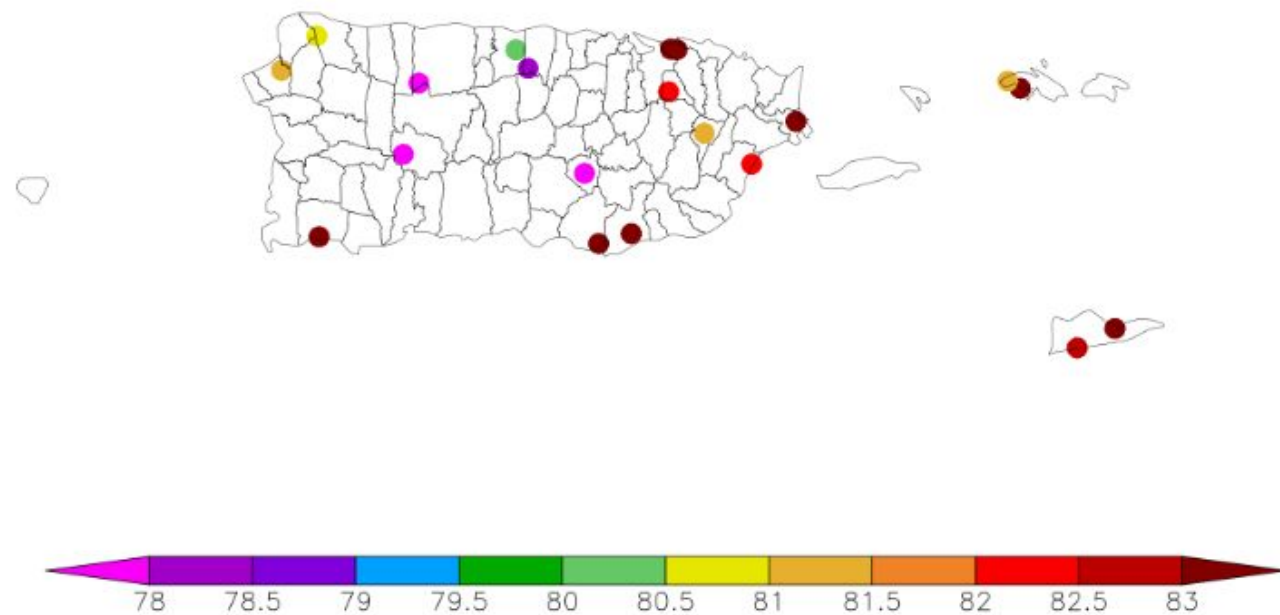
Records Began: Aguirre (1955), Calero Camp (1955), Corral Viejo (1970), Ensenada (1955), Guajataca Dam (1955), Hacienda Constanza (2011), Isabela Subs (1901), Jajome Alto (1955), Juana Díaz Camp (1931), Manatí 2 E (1900), Maricao Fish Hatchery (1955), Mora Camp (1955), Morovis 1 N (1956), Paraíso (1956), 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)
7/1/2025 – 7/31/2025

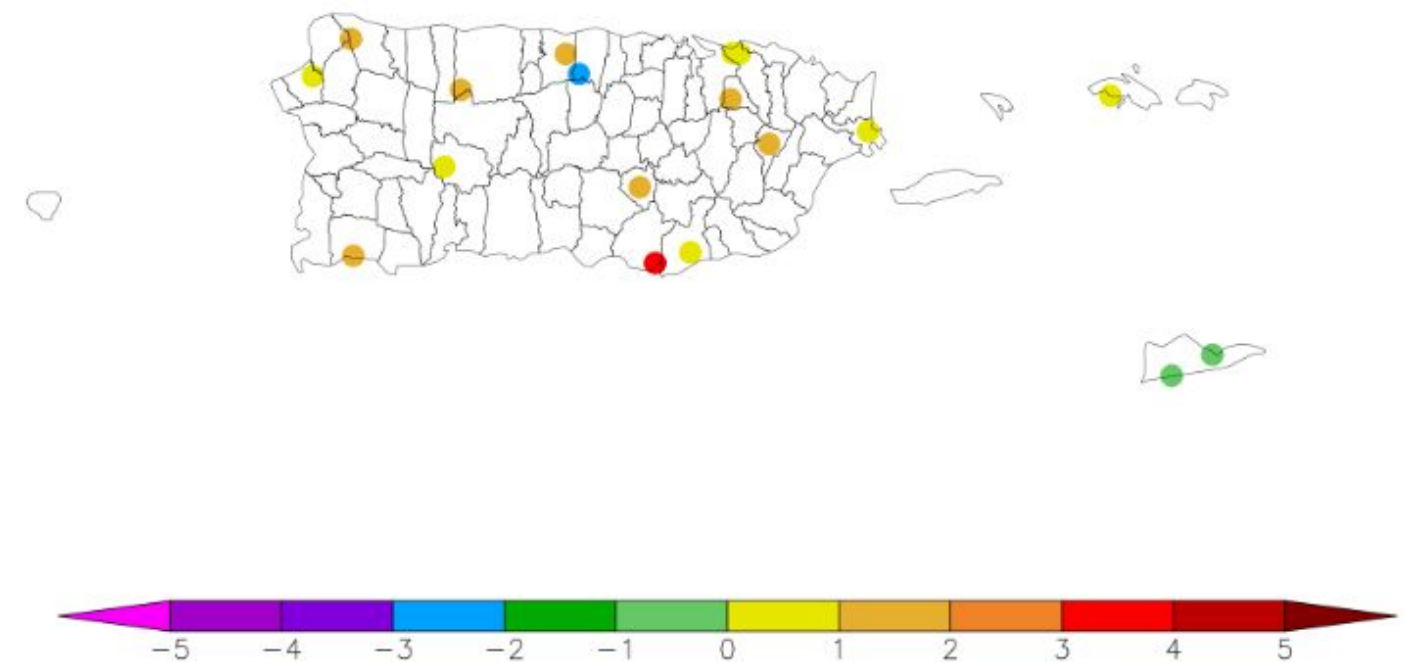


Generated 8/4/2025 using provisional data.

ACIS Web Services

- Temperatures across the majority of the local sites have been mostly above normal, with some exceptions along the north central coast of Puerto Rico and Saint Croix. The COOP station in Puerto Rico with the highest daily maximum temperature was Lajas Substation with **97°F**. Both COOP stations in USVI registered **89°F** as the highest daily maximum temperature.

Departure from Normal Temperature (F)
7/1/2025 – 7/31/2025



Generated 8/4/2025 using provisional data.

ACIS Web Services

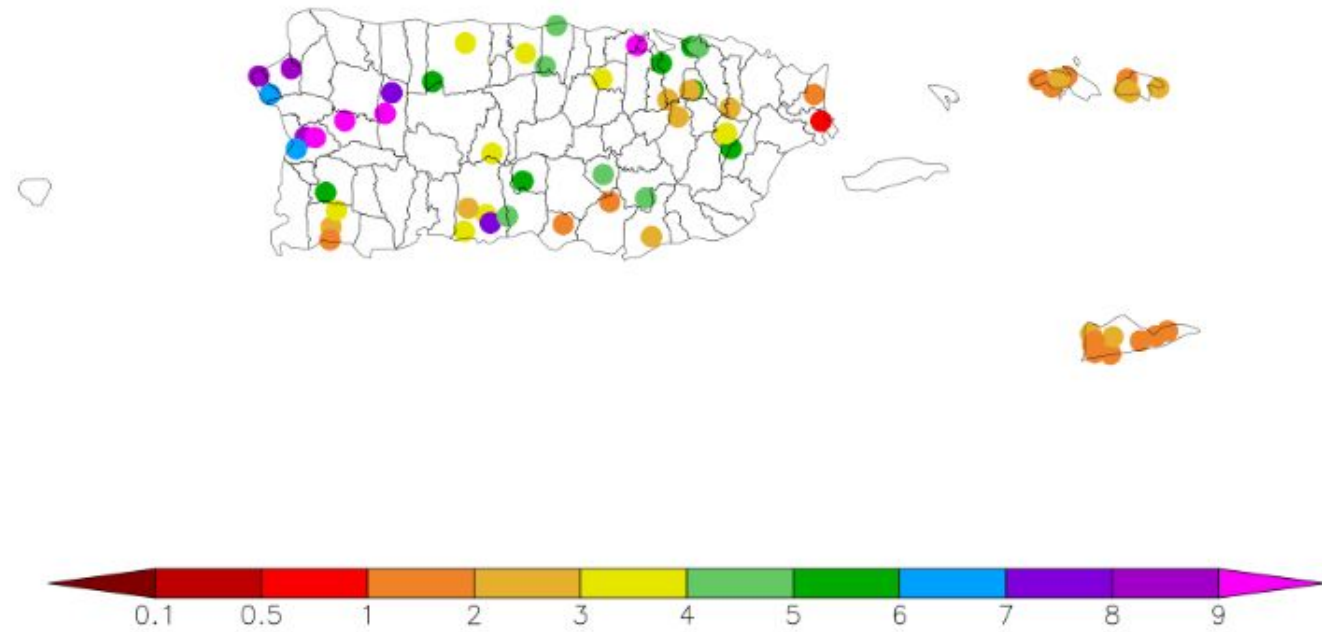
Image Captions:
Left - Observed Average Temperature for Puerto Rico and US Virgin Islands (COOP)
Right - Departure from normal temperature for Puerto Rico and US Virgin Islands (COOP)
Data Courtesy High Plains Regional Climate Center/NWS COOP Stations.



Observed Rainfall

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

Precipitation (in)
7/1/2025 – 7/31/2025

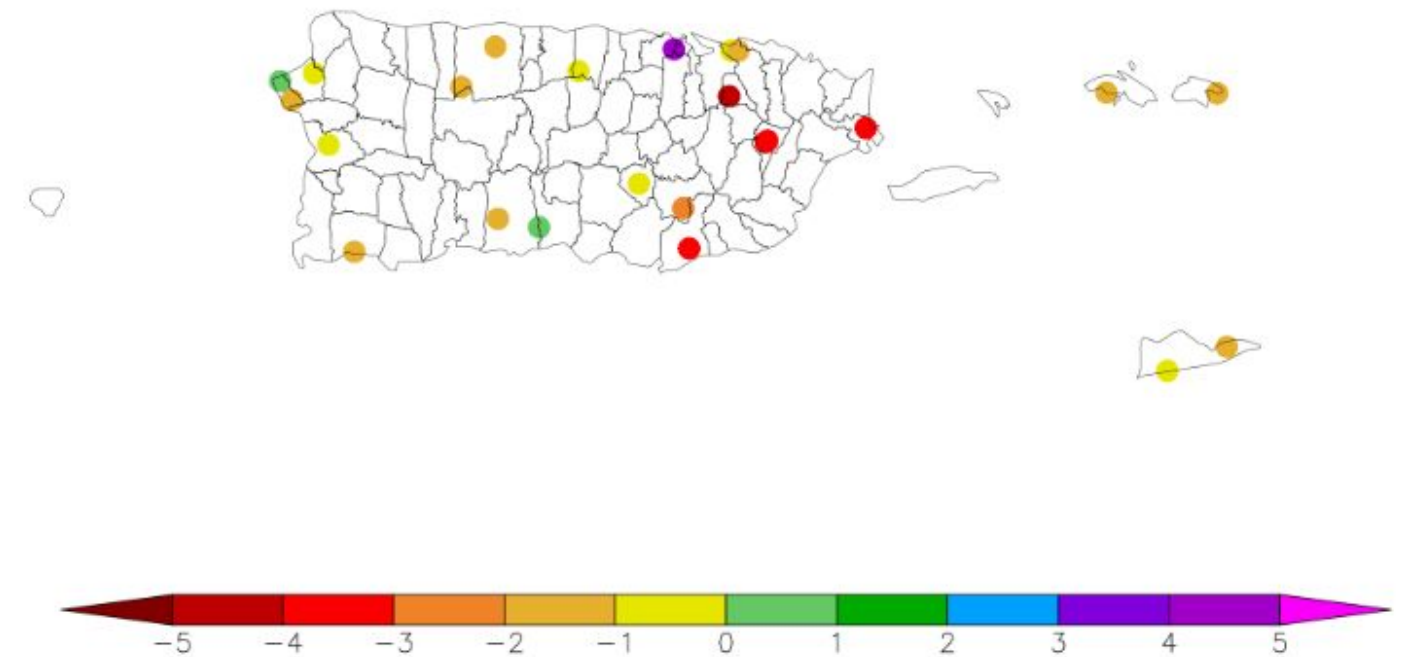


Generated 8/4/2025 using provisional data.

ACIS Web Services

- Most stations in Puerto Rico and the U.S. Virgin Islands ended below normal, with some exceptions along northern Puerto Rico. The COOP station with the highest monthly rainfall accumulation was **Toa Baja Levittown**, with **11.47"**. The CoCoRaHS station with the highest monthly rainfall accumulation was **Lares 1.6SSW** with **11.69"**.

Departure from Normal Precipitation (in)
7/1/2025 – 7/31/2025



Generated 8/4/2025 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 amounts were generous along western Puerto Rico and northern portions of the San Juan metro area.
- The least amount of rain was observed along the southeast, and extreme corners of the southwest and northwest of Puerto Rico.
- Rainfall amounts across the Virgin Islands were pretty uniform, with amounts hovering around 2", although isolated spots in the three main islands saw almost three inches.

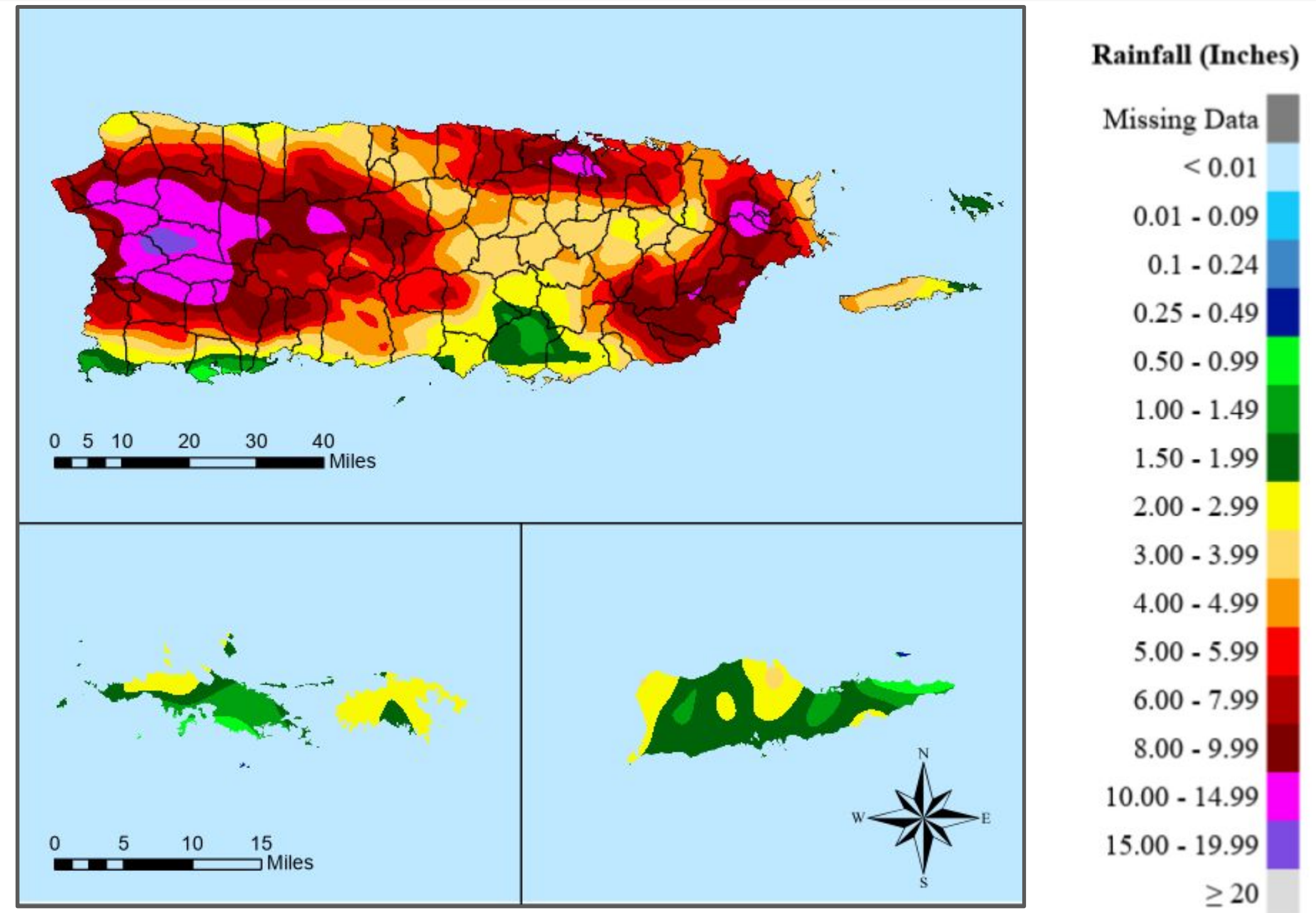


Image Captions:

Estimated Rainfall for the month of July. 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.
- All of the primary climate and COOP sites in the Virgin Islands ended drier than normal.

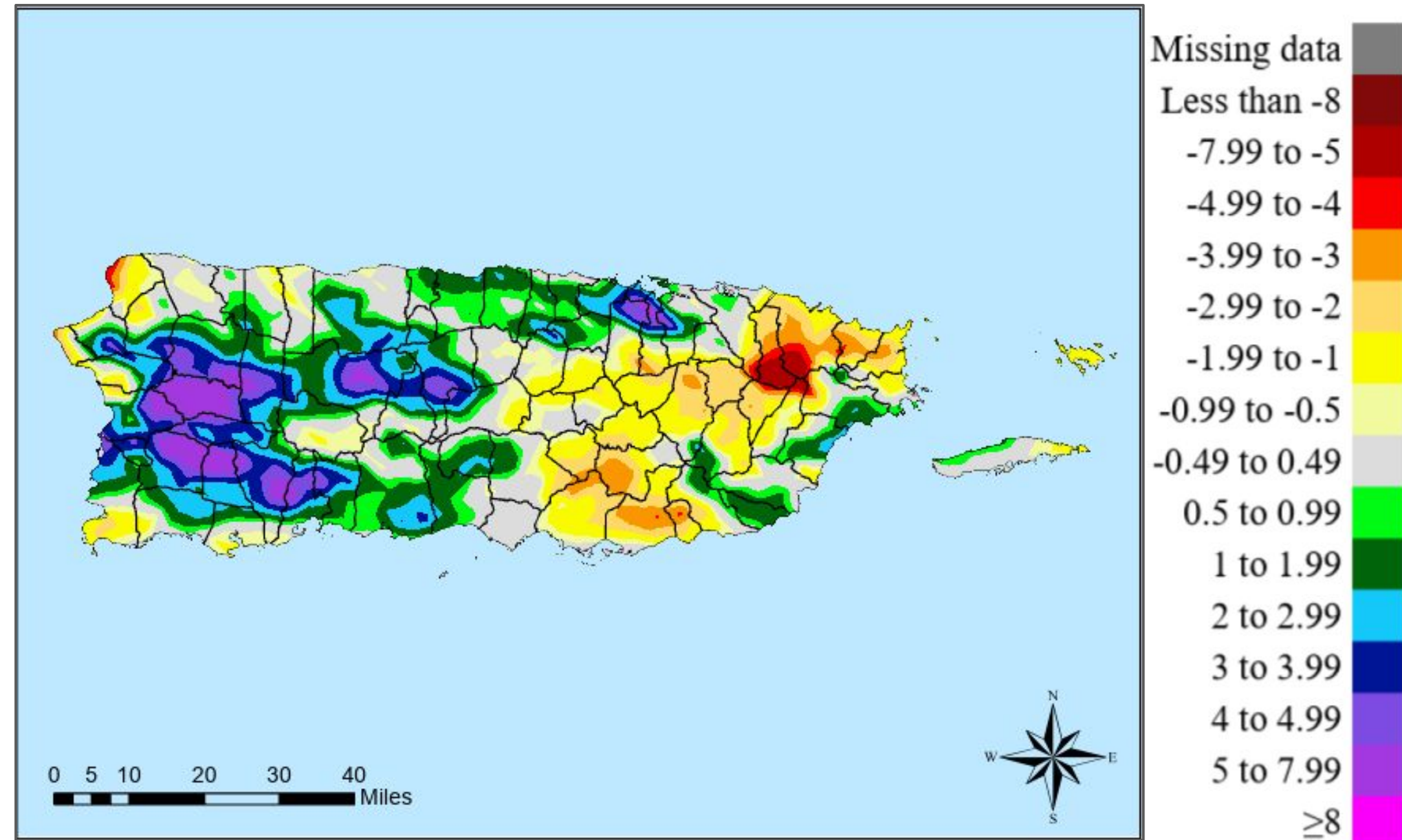


Image Captions:

Estimated Departure from Normal Rainfall for Puerto Rico during the month of July. 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](#). 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)	0
Flood Warnings (SJUFLWSJU)	0
Flash Flood Warnings (SJUFFWSJU)	2
Urban/Small Stream Flood Advisories (SJUFLSSJU)	40
Local Storm Reports (SJULSRSJU)	19

Latest Monthly Average Streamflow from USGS

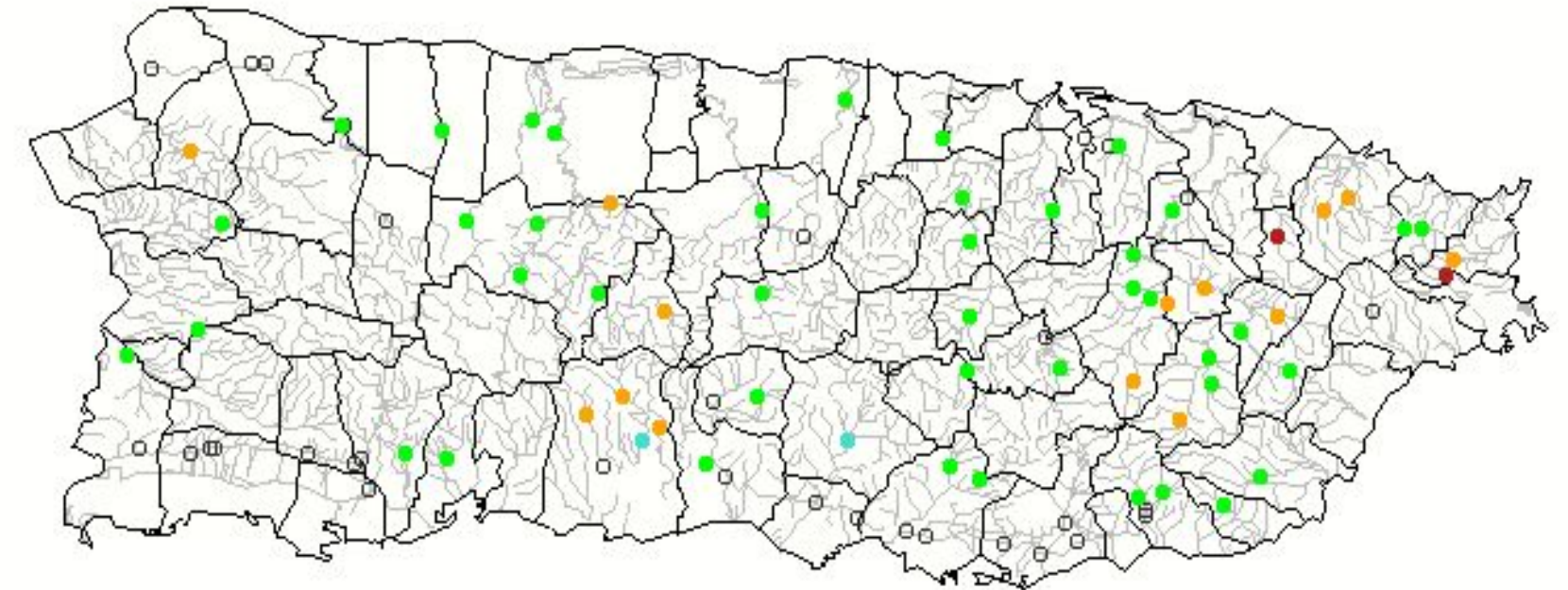


Image Caption: July 2025 compared to historical streamflows for Puerto Rico.

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 easter interior, and the northwest and north-central coast. The same areas show vegetation stress. Some portions of eastern, western and just northwest of the San Juan metro area show saturated soils, with little to no-vegetation stress observed.

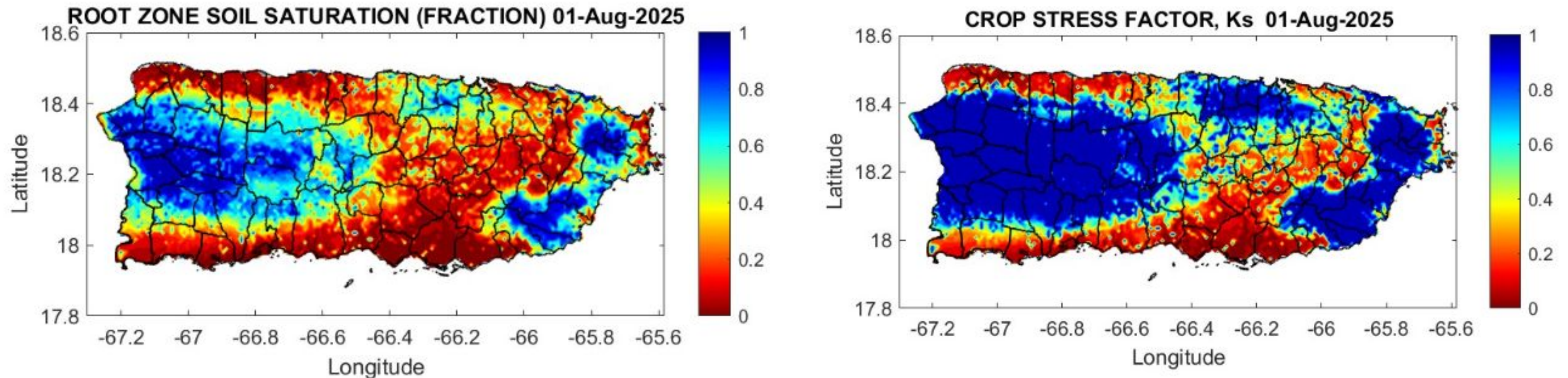


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high



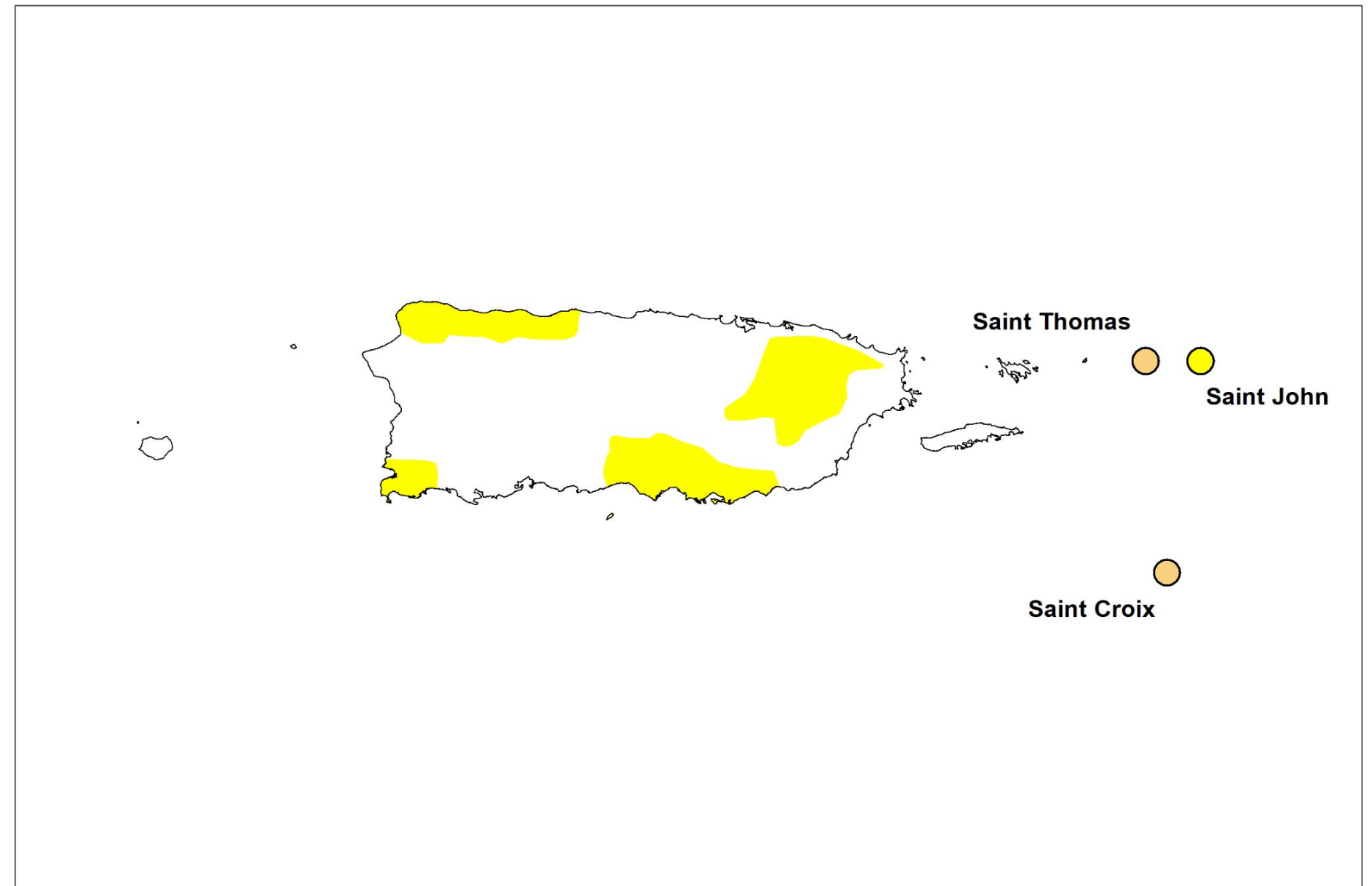
U.S. Drought Monitor

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

DROUGHT CONDITIONS:

Abnormally Dry conditions (D0) are currently observed across portions of the southwest, southeast, northwest and eastern interior of Puerto Rico. D0 also persist in St. John.

Below than normal precipitation, as well as decreasing water amounts along wells in the U.S. Virgin Islands lead to the introduction of Moderate Drought (D1) across St. Thomas and St. Croix.



U.S. Drought Monitor



Image Caption: U.S. Drought Monitor valid 8am EDT August 5th, 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 to the U.S. Drought Monitor in the Caribbean.

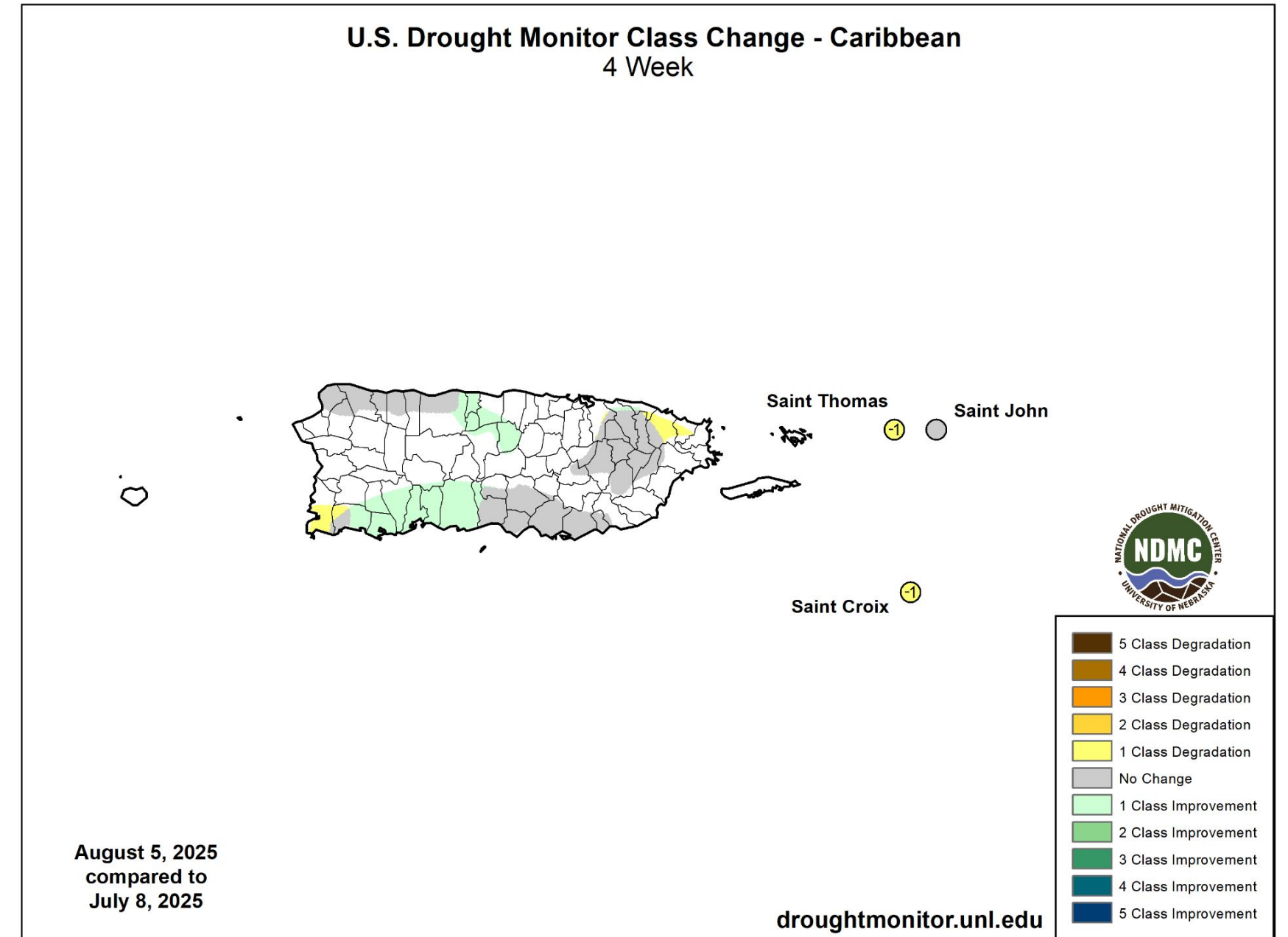


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT Aug 5th, 2025.



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 fall months (September-October-November) across the northeastern Caribbean.

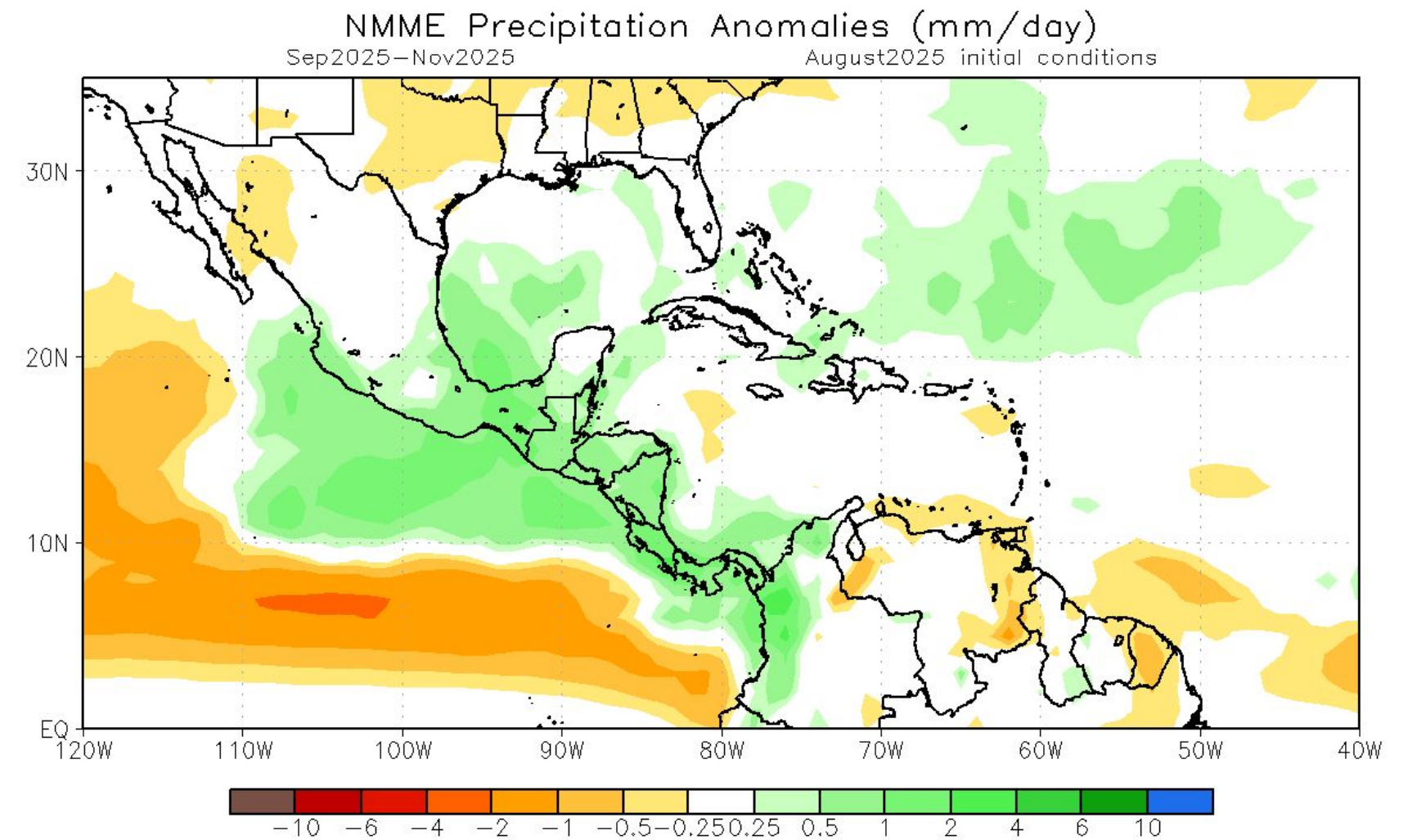


Image caption: NMME precipitation forecast issued August 2025. Valid September-October-November 2025.



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 60-70% chance of observing above normal temperatures for the period of August-September-October 2025.

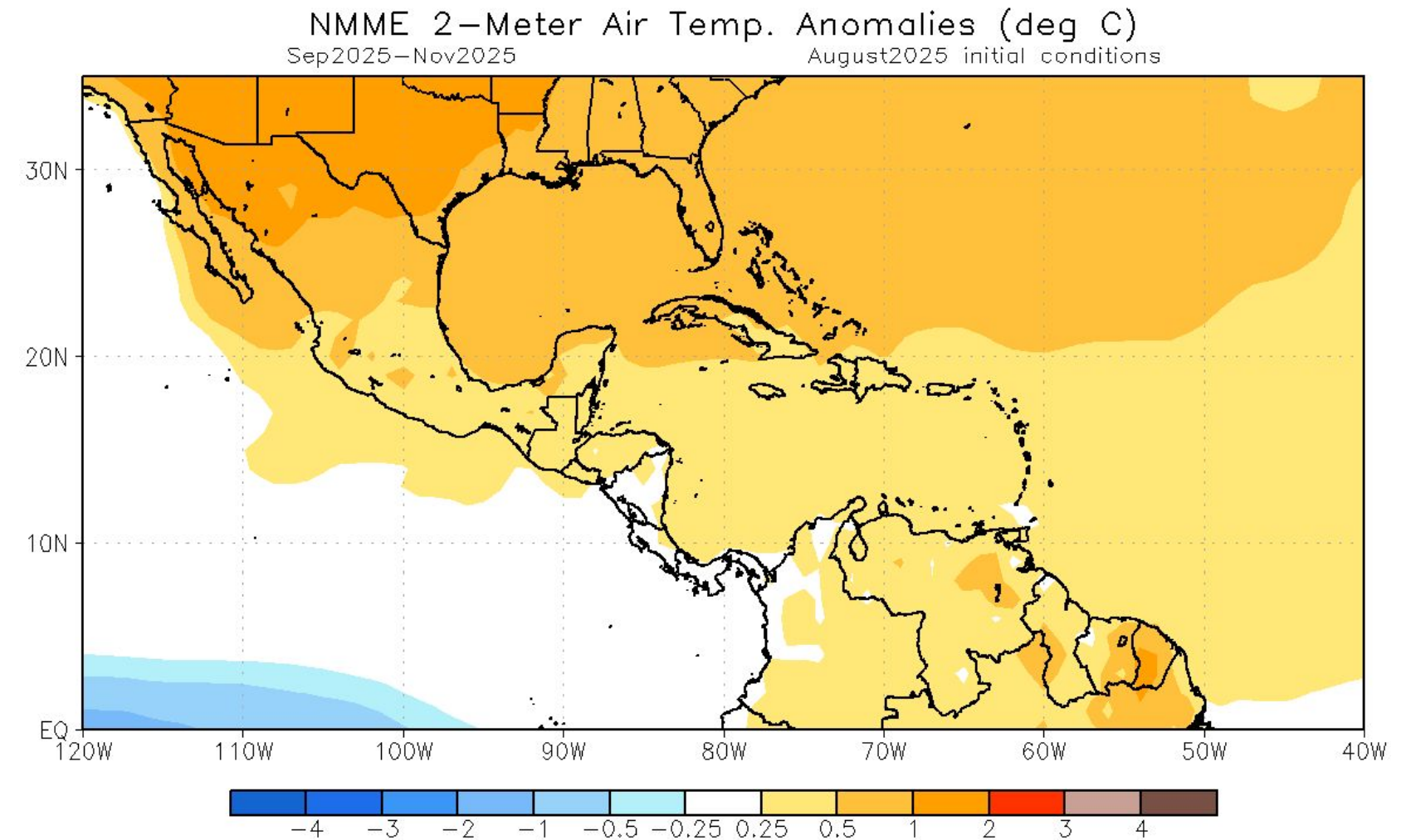


Image caption: NMME temperature forecast issued August 2025.
Valid September-October-November 2025.



Long Range Drought Outlook

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**Seasonal (3-Month) Drought Outlook for July 31,
2025–October 31, 2025**

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



Drought Is Predicted To...



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

Last Updated: 07/31/25

Image Caption: U.S. Seasonal Drought Outlook Valid for July 31st to October 31st 2025.