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

Valid for December 2025

Issued By: WFO San Juan, PR

Contact Information: sr-sju.webmaster@noaa.gov

November Climate Summary for Primary Climate Sites

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

Highest: **89 °F** on the 14th
Lowest: **69 °F** on the 28-29th
Average: 79.2 °F (+0.4; above normal)
Rain Total: 4.90” (0.05; below normal)

Days with T_{max} >= 90 °F: 0
Nights with T_{min} >= 80 °F: 0
Days with Rain (>= 0.01”): 21

Rankings:
23rd warmest
51st wettest

Remarks:

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

Highest: **90 °F** on the 6 & 7th
Lowest: **69 °F** on the 28th
Average: 81.9 °F (+1.8; above normal)
Rain Total: Missing

Days with T_{max} >= 90 °F: 3
Nights with T_{min} >= 80 °F: 0
Days with Rain (>= 0.01”): 16

Rankings:

N/A

Remarks:
4 days of temperature and precipitation data missing.

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

Highest: **88 °F** on the 4th
Lowest: **65 °F** on the 28th
Average: 78.8 °F (normal)
Rain Total: Missing

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

Rankings:
36th warmest

Remarks:
Precipitation sensor remains inoperable.

December Climate Summary for COOP Climate Sites

Station	Highest	Lowest	Avg. Temp.	Departure from normal	Temp. Rank	Precip.	Departure from normal	Precip. Rank
Adjuntas Substation	85 °F	56 °F	71.5 °F	-0.1	21th warmest	4.21”	-2.47	12th wettest
Aguirre	89 °F	69 °F	80.3 °F	+2.0	15th warmest	3.20”	-1.33	31st wettest
Aibonito 1 S	81 °F	64 °F	73.3 °F	+1.8	6th warmest	2.61”	-4.11	15th driest
Arecibo Observatory	91 °F	62 °F	76.1 °F	+2.5	4th warmest	5.09”	-2.46	13th driest
Coloso Aguada	90 °F	68 °F	78.9°F	+0.3	23rd warmest	8.67”	+3.57	19th wettest
Dos Bocas	M	M	M	M	M	M	M	M
Juncos 1 SE	88 °F	66 °F	78.3 °F	+1.2	18th warmest	4.78”	-2.91	38th driest
Magueyes Island	90 °F	70 °F	80.9 °F	+0.2	21st warmest	2.10”	-2.96	22nd driest
Palmarejo Vega Baja	87 °F	65 °F	76.3 °F	-1.0	3rd coolest	1.89”	-5.20	1st driest
Ponce 4 E	90 °F	66 °F	80.3 °F	+2.4	21st warmest	2.92”	-1.02	52nd driest
Toro Negro Forest	80 °F	60 °F	70.9 °F	M	7th warmest	1.33”	-7.23	2nd driest
Trujillo Alto 2 SSW	91 °F	69 °F	79.9 °F	+1.3	10th warmest	1.38”	-6.54	2nd 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)*

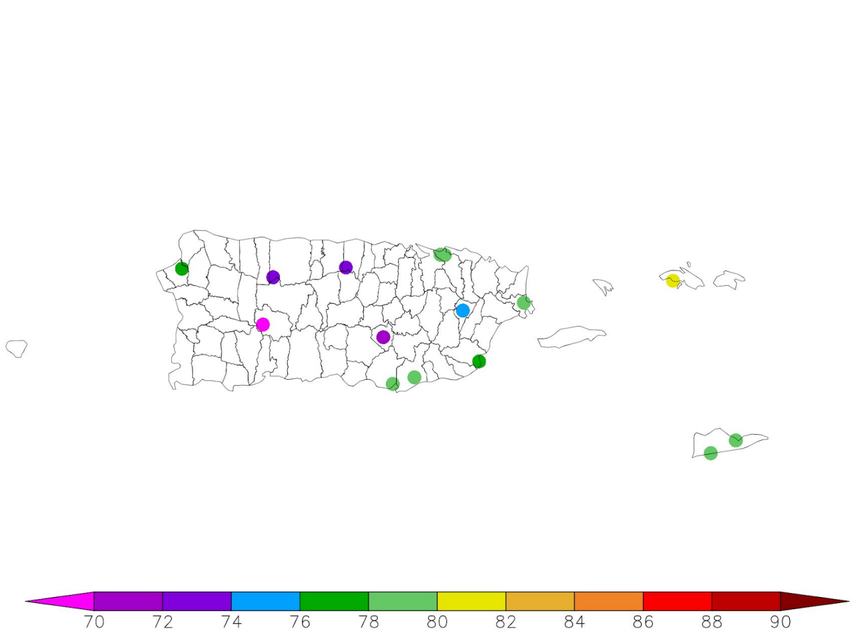
November Climate Summary for COOP Climate Sites

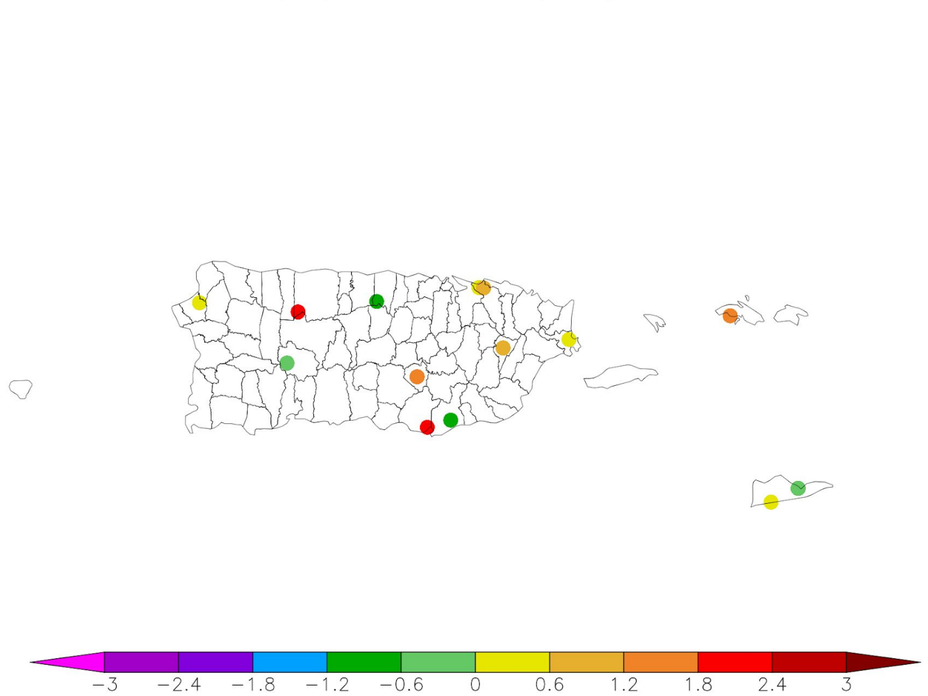
Station	Precip.	Departure from normal	Precip. Rank	Station	Precip.	Departure from normal	Precip. Rank
Calero Camp	M	M	M	Paraíso	M	M	M
Corral Viejo Ponce	M	M	M	Rincón	M	M	24th driest
Ensenada	M	M	M	Río Blanco Lower	M	M	M
Guajataca Dam	M	M	M	Sabana Grande 2 ENE	2.96”	+1.22	17th wettest
Hacienda Constanza	7.25”	M	5th driest	Yabucoa 3 SE	M	M	M
Isabela Substation	M	-3.17	25th driest	Beth Upper New Works	M	M	M
Jájome Alto	3.90”	-4.29	10th driest	Christiansted Fort	M	M	M
Juana Díaz Camp	M	-0.47	45th driest	Cruz Bay	1.86”	M	6th wettest
Manatí 2 E	3.02”	+0.63	42th wettest	East End	2.00”	+4.37	3rd wettest
Maricao Fish Hatchery	8.16”	-1.07	33th driest	East Hill	2.31”	-1.70	5th driest
Mora Camp	M	M	M	Montpellier	M	M	M
Morovis 1 N	2.55”	+0.91	25th wettest				

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



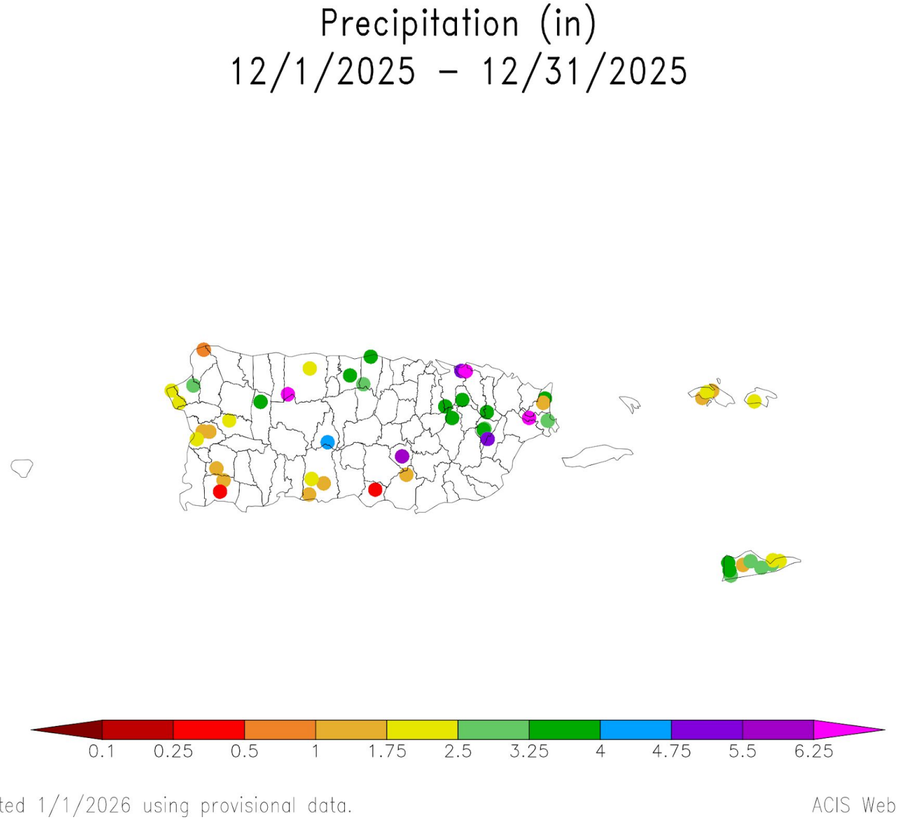


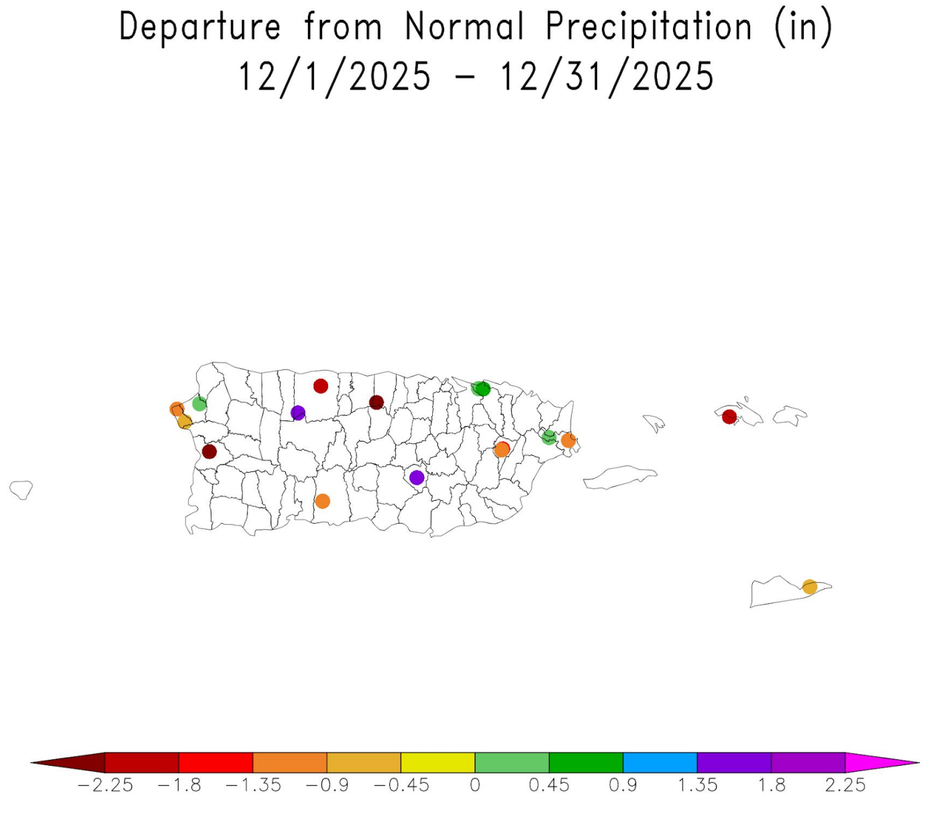
- Temperatures have been above normal across most of local sites, with the exception of some areas the interior, southeast, and in eastern St. Croix. The COOP station in Puerto Rico with the lowest daily minimum temperature was Adjuntas Substation which recorded **46°F**. In the U.S. Virgin Islands, Christiansted Fort reported **68°F** as the lowest minimum temperature.

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 below normal, with some exceptions in western Puerto Rico. The COOP station with the highest monthly rainfall accumulation was **Paraiso** with **8.36**". The CoCoRaHS station with the highest monthly rainfall accumulation was **Carolina 1.7 NNW** with **6.44"**.

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)

- Most of the eastern half of Puerto Rico, as well as San German in the west, collected 5 to 10 inches of rain, with a maximum of 10 to nearly 15 inches near El Yunque.

- The western half observed 2 to 5 inches, with less amounts observed in the south-southeast, southwest and northwest corners.

- In U.S. Virgin Islands, estimated amounts ranged from 1 to 4 inches, with the highest amounts along western St. John and western and north-central St. Croix.

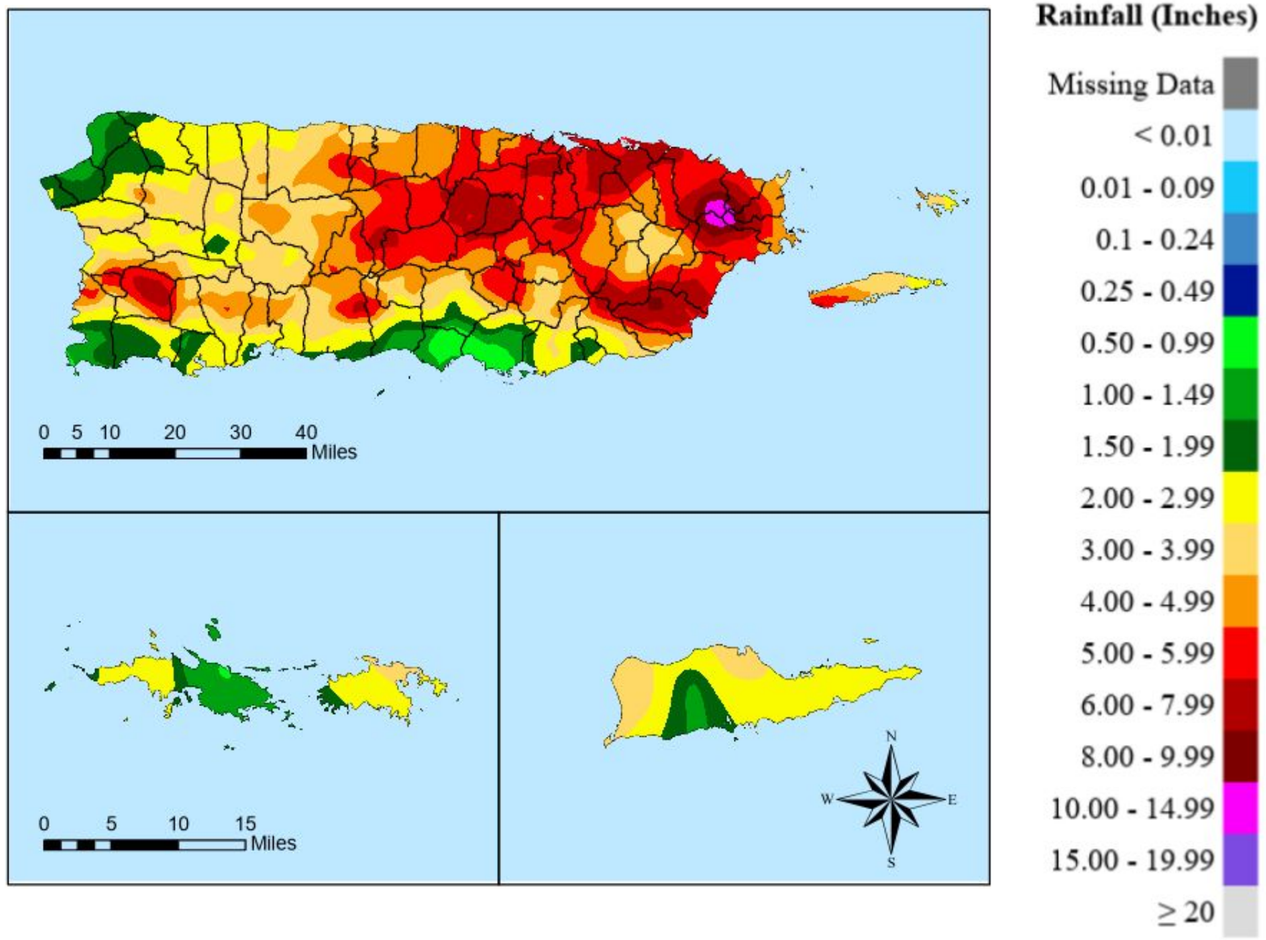


Image Captions:
Estimated Rainfall for the month of December. This map is courtesy of the NWS SJU GIS Team.

Departure from Normal Rainfall

Estimated Departure from normal was obtained from NWPS.

- Rainfall deficits ranging from 1 to 2 inches were noted across most of the northern municipalities, with even larger deficits of nearly 5 inches observed across the northeastern region near the vicinity of El Yunque.

- Rainfall was above normal across the interior, most of the south, and Vieques and Culebra. The highest surplus were observed from Mayagüez to Ponce.

- The San Juan metropolitan area observed near-normal rainfall this month, while areas near Carolina and Loiza experienced a modest surplus of 1 to 2 inches.

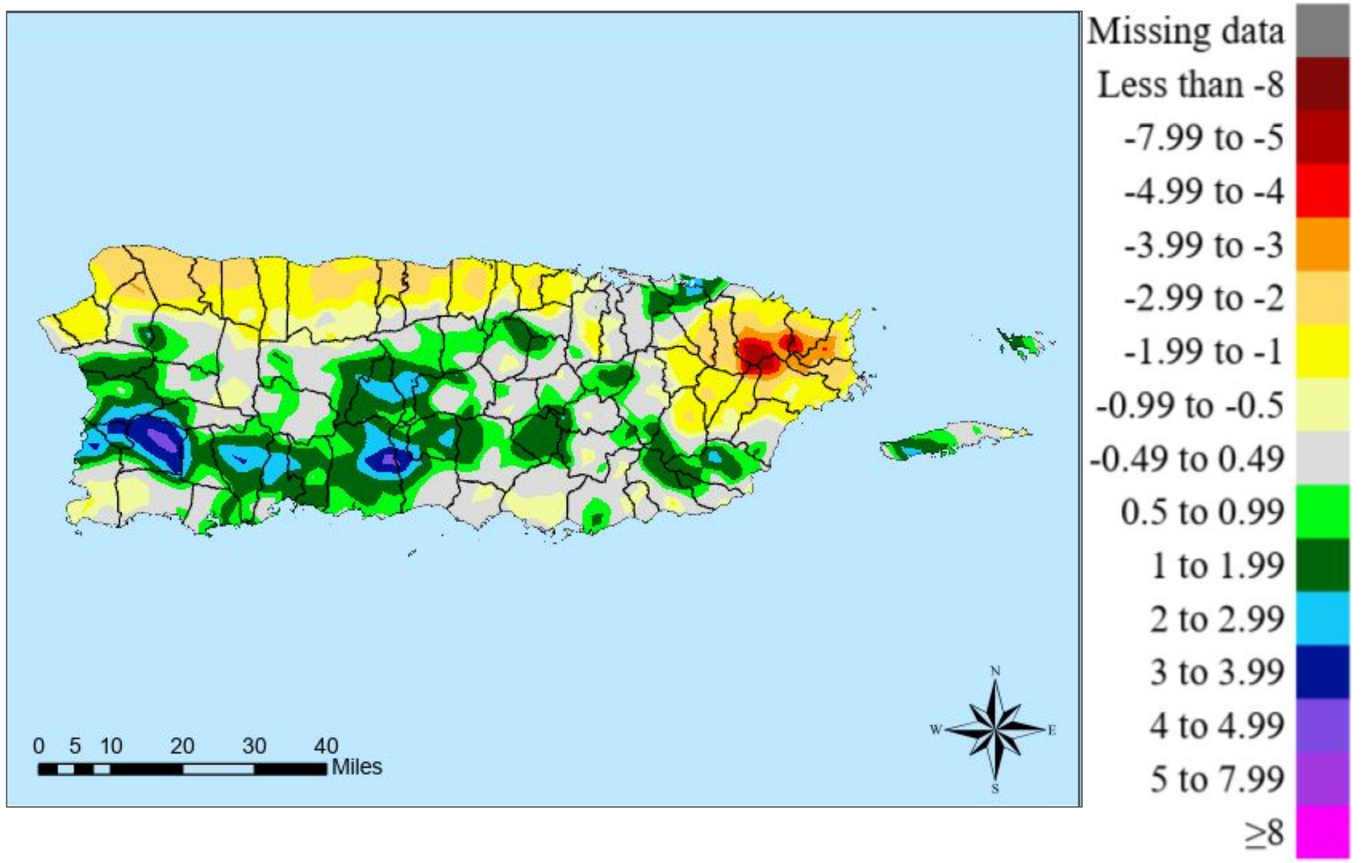


Image Captions:
Estimated Departure from Normal Rainfall for Puerto Rico during the month of December. This map is courtesy of the NWS SJU GIS Team.
*NWPS does not provide rainfall departure from normal for the USVI.

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 low flows along Arecibo, Utuado, Ponce and Juana Diaz. A few other rivers in the southeast, eastern interior, east, and the San Juan metropolitan area area also running below normal. Elsewhere, rivers are running near normal. 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)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	0
Flash Flood Warnings (SJUFFWSJU)	1
Urban/Small Stream Flood Advisories (SJUFLSSJU)	7
Local Storm Reports (SJULSRSJU)	7

Latest Monthly Average Streamflow from USGS

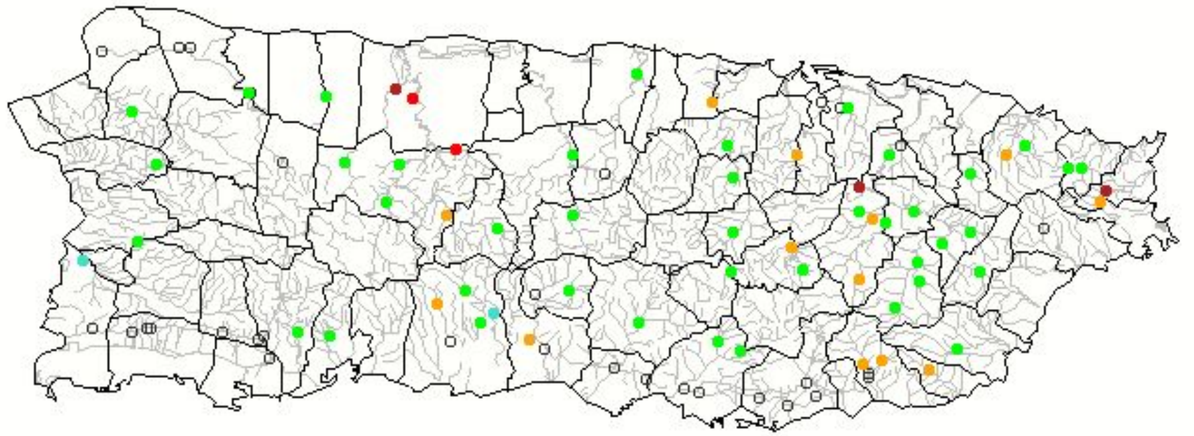
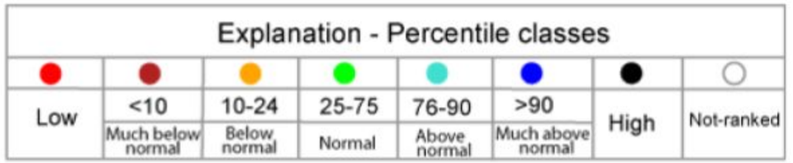


Image Caption: December 2025 compared to historical streamflows for Puerto Rico.



Soil Saturation

The latest soil moisture information for Puerto Rico can be found on PRAGWATER

The latest data retrieved from PRAGWATER indicate that conditions continue to be dry across the northern and southern coastal plains, as well as the eastern interior as reflected by red and orange shading. Crop stress is also expanding in these areas. On the other hand, soils are not as dry along the east, northeast, west, and wester interior, where soils report higher saturation levels and there is no crop stress.

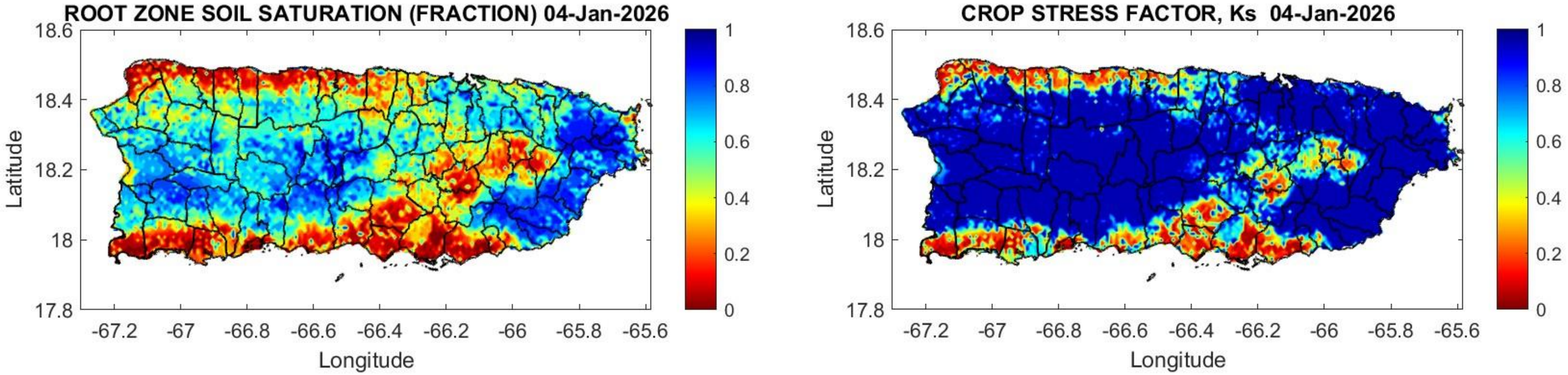


Image Caption: (Left) Crop Stress Factor for Puerto Rico. (Right) Root Zone Soil Saturation Fraction. Soil saturation: 1=Saturated. Crop Stress Factor: 0=high

U.S. Drought Monitor

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

DROUGHT CONDITIONS:

- Abnormally Dry (D0) conditions continue across the eastern interior, north-central, northwest, southeast and southwest Puerto Rico.
- Similar conditions are observed on St. Croix, U.S. Virgin Islands, where rainfall has been limited and groundwater wells continue to decline.
- Conditions are further deteriorated in St. Thomas and St. John, where Moderate Drought (D1) is affecting the islands.

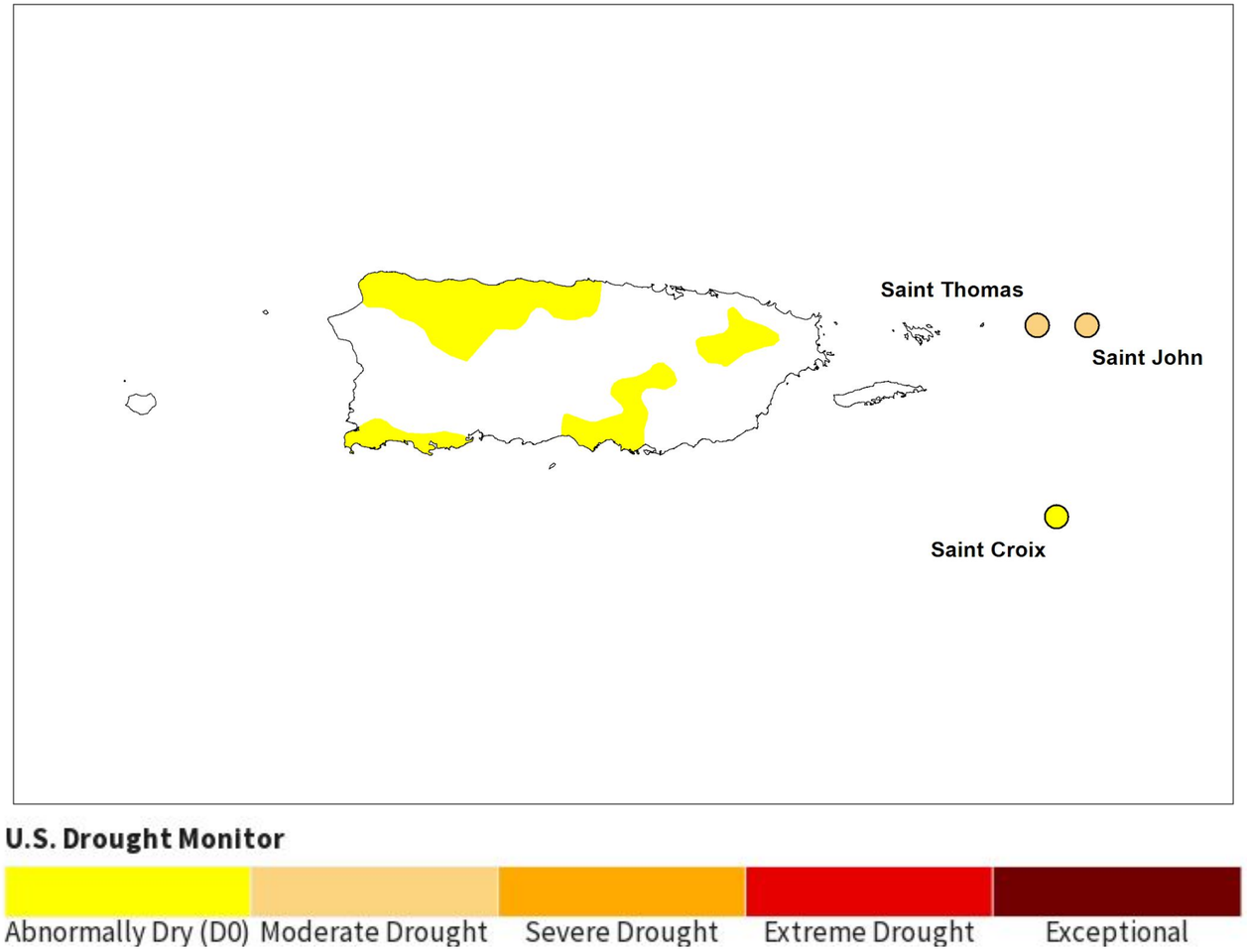


Image Caption: U.S. Drought Monitor valid 8am EDT December 30th, 2025

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, the most notable degradations are observed across portions of the east-interior, northwest, and southwest PR.
- One class improvement was observed across most of the central interior and some north-central sections.
- Some areas, including St. Croix, show little to no change, indicating localized variability in precipitation and soil moisture conditions.
- St. Thomas and St. John experienced drought degradation, reflecting the lack of rainfall and water availability.

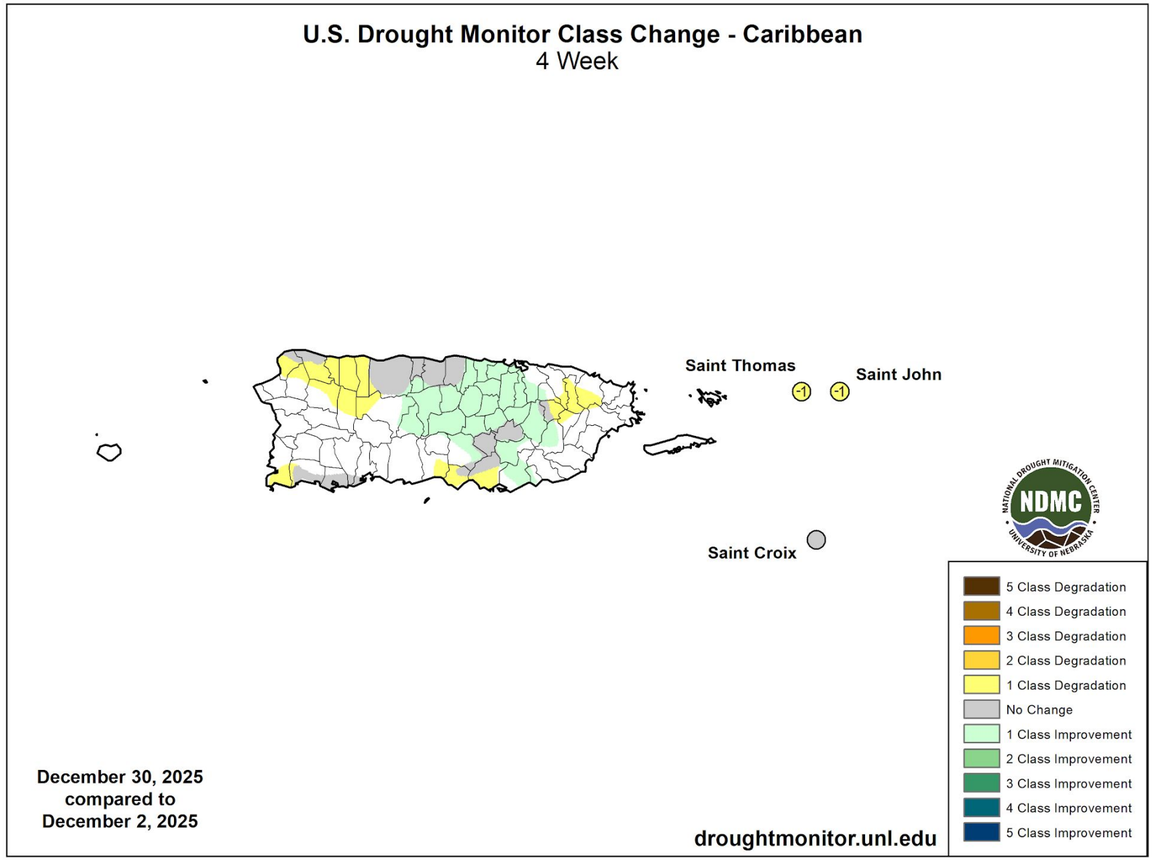


Image Caption: U.S. Drought Monitor 4-week change map valid 8am EDT Dec 30th, 2025.

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 near normal conditions during the late winter and spring months (February-April 2026) across the northeastern Caribbean.

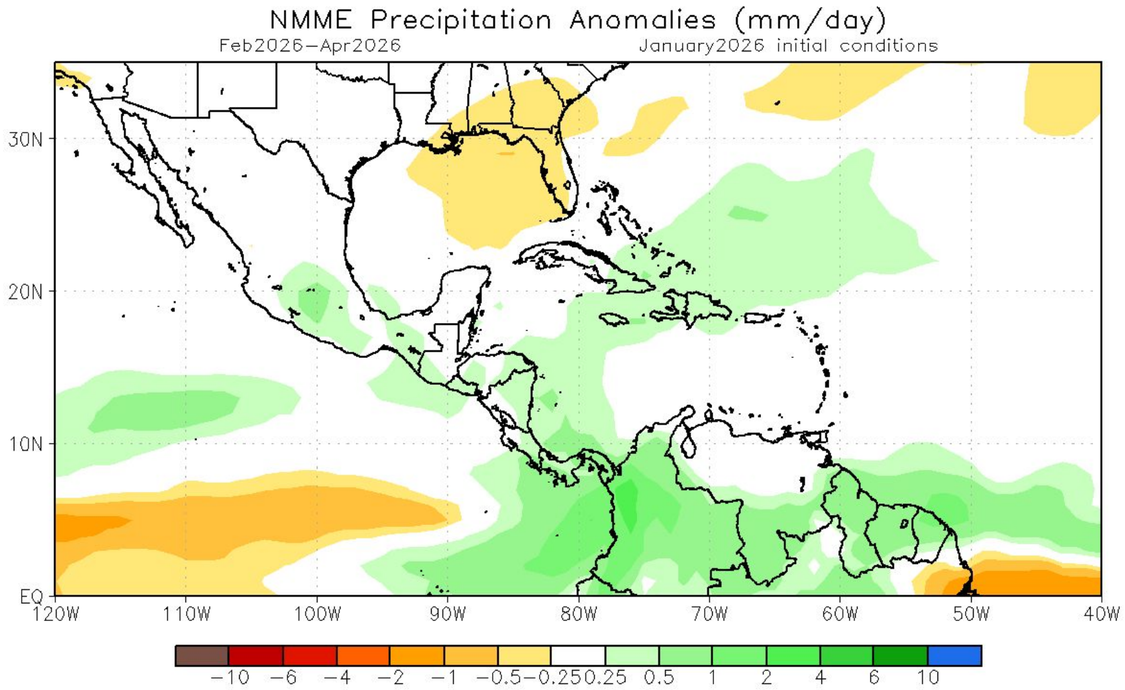


Image caption: NMME precipitation forecast issued January 2026. Valid February - April 2026.

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 chance greater or equal than 70% above-normal temperatures during the late winter and spring months (February-April 2026) across the northeastern Caribbean.

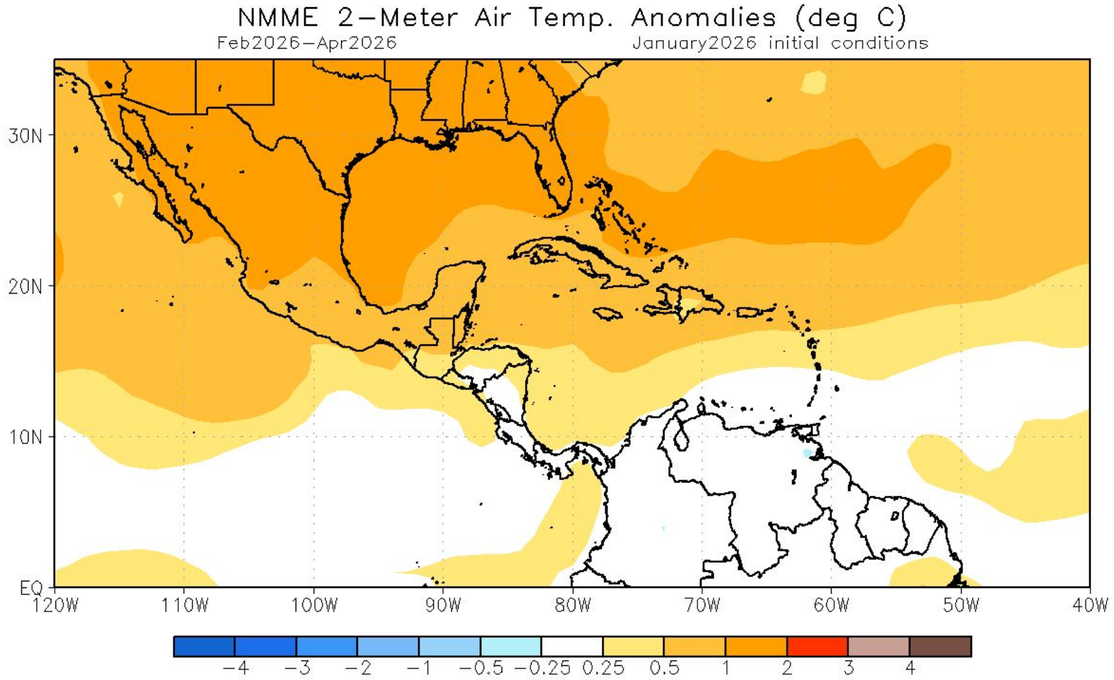


Image caption: NMME temperature forecast issued January 2026. Valid February - April 2026.

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 nor the Virgin Islands over the upcoming three months.

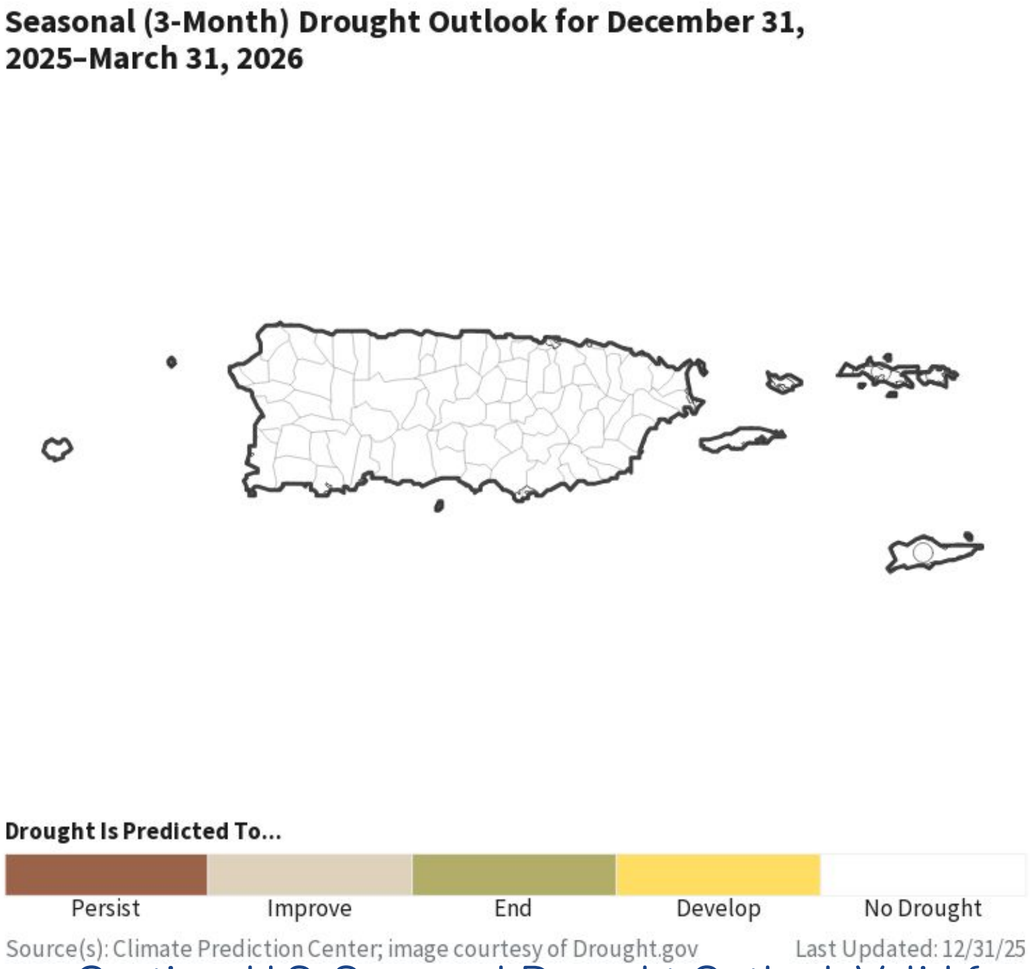


Image Caption: U.S. Seasonal Drought Outlook Valid for December 31st 2025 to March 31st 2026.