

NWS Form E-5
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(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)
San Juan, Puerto Rico

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
September 2015

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Althea Austin-Smith,
Service Hydrologist
DATE
10/14/2015

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: The San Juan Airport ASOS in Puerto Rico reported 4.30 inches of rain for the month of September; 1.47 inches less than the normal of 5.77 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 1.71 inches for the month of September; 3.87 inches less than the normal of 5.58 inches. The ASOS rainfall report from Henry E. Rohlsen Airport in St. Croix was 1.27 inches for the month of September; 3.59 inches less than the normal of 4.86 inches.

"Drought conditions continue to persist across eastern Puerto Rico and the U.S. Virgin Islands. Although periods of showers and thunderstorms have been observed across the local islands...long and short term rainfall deficits continue to persist across most of Puerto Rico and the U.S. Virgin Islands. Saint Croix continues to be designated as an area of natural disaster due to their agricultural drought impacts over the past couple of months." From the NWS San Juan ([Local Drought Information Statement](#)). Please also see September's Climate Report: (http://www.srh.noaa.gov/images/sju/climo/monthly_reports/2015/Sep2015.pdf).

Based on USGS gages, the majority of streamflows continue to run in the below to much below normal range...with a few outliers here and there. The soil moisture conditions remained constant across the islands, more or less, with some additional drying along the south coast of Puerto Rico. Runoff from recent rainfall had a slight positive impact on reservoir levels and cistern recharge. Overall, hydrologic conditions seem to be holding steady across the region with the exception of some locations along the south coast of Puerto Rico where further drying is occurring, as indicated by the decline in the aquifer south of Salinas.

The [U.S. Drought Monitor](#) for Puerto Rico showed a continued "deterioration" as most of eastern Puerto Rico continued to run up the rainfall deficits.

The approximate amounts of Hydrologic Products issued during the month of September are as follows:

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	5
Flash Flood Warnings (SJUFFWSJU)	2
Flash Flood Statements (SJUFFSSJU)	2
Urban/Small Stream Flood Advisories (SJUFLSSJU)	139

Here is the [September 2015 rainfall totals graphic](#) .

For monthly “radar totals” use the archive of the Advanced Hydrologic Prediction Service (AHPS)
- select the Precipitation interface for San Juan, Puerto Rico and request the duration you would like to view...daily or monthly remembering that the 24 hour totals are from 12z – 12z (8am to 8am in PR...AST) - AHPS archive of radar totals/ images.
(<http://water.weather.gov/precip/?loctype=WFO&loc=wfoSJU>)