

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
October 2015

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

SIGNATURE
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Service Hydrologist
DATE
11/14/2015

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 1.77 inches of rain for the month of October; 3.82 inches less than the normal of 5.59 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 7.96 inches for the month of October; 2.54 inches greater than the normal of 5.42 inches. The ASOS rainfall report from Henry E. Rohlsen Airport in St. Croix was 2.90 inches for the month of October; 2.35 inches less than the normal of 5.25 inches.

“Improvement in drought conditions was observed across the eastern interior of Puerto Rico and Saint Croix....showers and thunderstorms developed each afternoon over and north of Cordillera Central and Sierra de Cayey the third and fourth week of October with widespread shower and thunder activity observed during the weekend of October 24th and 25th. Widespread activity was associated with a mid to upper level trough that persisted across the eastern Caribbean. Rainfall accumulations associated with this feature fluctuated between 4 and 5 inches across the eastern interior of Puerto Rico. Extreme drought conditions (D3) improved to severe drought (D2) across these areas as catchment basins began to respond. Please also see October's Climate Report: (http://www.srh.noaa.gov/images/sju/climo/monthly_reports/2015/Oct2015.pdf).

Based on USGS data...the majority of streamflows are now running in the normal range...with a few outliers here and there. Improved runoff indices led to the improvement in lake levels at water supply reservoirs...signaling the improvement to hydrologic drought conditions across most of Puerto Rico. The U.S. Virgin Islands also registered some improved hydrologic conditions from showers over the past few weeks. The exception continues for some locations along the south coast of Puerto Rico where aquifers are still below normal including south of Salinas.

The [U.S. Drought Monitor](#) for Puerto Rico - Extreme drought conditions (D3) improved to severe drought (D2) across these areas as catchment basins began to respond. There was an overall decrease in the area under drought designations.

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

| Non-Routine Hydrologic Products Issued: | Approximate number of Products for the month |
|---|--|
| Hydrologic Outlooks (SJUESFSJU) | 0 |
| Flood Watches (SJUFFASJU) | 7 |
| Flood Warnings (SJUFLWSJU) | 3 |
| Flash Flood Warnings (SJUFFWSJU) | 10 |
| Flash Flood Statements (SJUFFSSJU) | 6 |
| Urban/Small Stream Flood Advisories (SJUFLSSJU) | 147 |

Here is the [October 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>)