

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
October 2009

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
11/21/2009

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 ASOS reported 3.62 inches of rain for the month of October...1.44 inches less than the normal of 5.06 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 2.27 inches for the month of October...3.30 inches less than the normal of 5.57 inches. "By the end of the month, rainfall totals across San Juan, Saint Thomas and Saint Croix all ended up well below normal, however due to widespread locally driven shower activity across the interior and western sections of Puerto Rico, an average of 96% of the normal precipitation was received island wide." *(Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=2009climatereport>)*

Moisture associated with the remnants of the [Tropical Storm Henri](#) aided the development of numerous showers and isolated thunderstorms across the interior and southwestern sections of Puerto Rico during the first week of October. While the remainder of the month was relatively quiet weather wise, several tropical waves did cross the local islands during October. These tropical waves brought brief surges of moisture; however, rainfall accumulations for October 2009 were mainly influenced by typical mesoscale-driven nocturnal/diurnal showers. Due to the mainly locally driven weather pattern observed during October 2009, several flash flood warnings and flood advisories were issued across the north central, northwestern and western interior sections of the island, where the most persistent heavy rain fell. *(Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=2009climatereport>)*

The most significant flooding for the month of October was experienced along the Rio Tanama and the Rio Guanajibo with headwaters in the central and western interior mountains of Puerto Rico. Some minor to moderate flooding was also reported along the Rio Cerrillos along the southern slopes in Ponce, the Rio Fajardo and Rio Grande de Loiza in eastern Puerto Rico and the Rio Culebrinas in northwestern Puerto Rico.

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

Table 1 - Hydrologic Products Issued

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	4
Flash Flood Warnings (SJUFFWSJU)	9
Flash Flood Statements (SJUFFSSJU)	9
Urban/Small Stream Flood Advisories (SJUFLSSJU)	102

Here is the monthly “gage only” summary for the month of October...provided by the Southeast River Forecast Center (SERFC) in Atlanta - [Monthly GAGE ONLY Summary for October 2009](#)

For monthly “radar totals” use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on 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) - [AHPS archive of radar totals/ images](#) . Here are the [October 2009 totals](#).