

NWS Form E-5
(04-2006)
(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
April 2011

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
05/13/2011

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 2.80 inches of rain for the month of April; 0.91 inches less than the normal of 3.71 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 3.50 inches for the month of April; 1.11 inches more than the normal of 2.39 inches.

"A generally fair and mainly dry weather pattern prevailed across the forecast area the first half of the month with just light morning showers across the windward side of the local islands and limited afternoon convection across the interior and western portions of Puerto Rico. By mid month, the afternoon convection became more intense and long-lasting due to favorable upper level dynamics. As a result, the first flash flood warning of 2011 was issued for Lares and San Sebastian on April 14th. The following week, favorable upper level dynamic continued across the local area due to a broad upper level trough located to the north-northeast of the area. By the end of the month, another round of unsettled conditions prevailed across the local islands as a result of a mid to upper level trough combined with deep tropical moisture." Excerpt from the monthly climate report... see (<http://www.srh.noaa.gov/sju/?n=apr2011cr>)

As is usually the case in this region, April usually marks a return to wet weather after the dry weather of the first few months of the year. This year followed climatology, with the April rains which were welcomed since the runoff recharged the reservoirs, lakes and cisterns across the forecast area. The rainfall in the Utuado area towards the end of the month included some locally heavy, high intensity showers which led to a number of reports of mudslides across that area of Puerto Rico.

LSR for mudslides in Utuado... locally heavy rainfall			
..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
..REMARKS..			
0814 PM	AVALANCHE	UTUADO	18.27N 66.71W
04/29/2011		UTUADO	PR EMERGENCY MNGR
BARRIO SAN JOSE CLOSE TO COLEGIO SAN JOSE, SALTO ABAJO AREA.			

0814 PM 04/29/2011	AVALANCHE	UTUADO UTUADO	PR	18.27N 66.71W EMERGENCY MNGR
MUDSLIDE IN ROAD 111, KM 10.7 CLOSE TO EL CACIQUE RESTAURANT IN BARRIO CAGUANA.				
0814 PM 04/29/2011	AVALANCHE	UTUADO UTUADO	PR	18.27N 66.71W EMERGENCY MNGR
MUDSLIDE REPORTED IN BARRIO GUANICO, ROAD 603.				
0814 PM 04/29/2011	AVALANCHE	UTUADO UTUADO	PR	18.27N 66.71W EMERGENCY MNGR
MUDSLIDES WERE REPORTED IN BARRIO CAGUANA RD 111, KM 3.2 AND ROAD 123, KM 1.8.				

Although towards the end of March, the weekly updated [U.S. Drought Monitor](#) did include some areas in PR in an “Abnormally Dry” designation, the rains arrived in April and those designations were quickly removed.

The approximate amounts of Hydrologic Products issued during the month of April 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)	0
Flash Flood Warnings (SJUFFWSJU)	4
Flash Flood Statements (SJUFFSSJU)	5
Urban/Small Stream Flood Advisories (SJUFLSSJU)	75

For monthly “radar totals” use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on 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) - [AHPS archive of radar totals/ images](#) . Here are the [April 2011 totals](#).