

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
March 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
04/05/2011

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 1.27 inches of rain for the month of March; 0.87 inches less than the normal of 2.14 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 1.28 inches for the month of March; 0.24 inches less than the normal of 1.69 inches.

"March 2011 began with strong convection across the Cordillera Central and western portions of Puerto Rico as a result of an upper level trough combined with a jet maximum. Days after, a generally fair and mainly dry weather pattern prevailed across the local islands with just isolated morning showers across the windward side of the local islands and limited afternoon convection across the Cordillera Central. By midmonth, a transition to a more convective/wet pattern was noticed. Low level disturbances reached the local islands on March 28th and 30th bringing additional moisture to the forecast area. The available moisture associated with these low level disturbances combined with diurnal heating, sea breeze convergence and favorable upper level dynamics to produce scattered to numerous showers, some of them with locally heavy rainfall, and isolated thunderstorms across the northern slopes of Puerto Rico including portions of the San Juan Metro Area." Excerpt from the monthly climate report... see <http://www.srh.noaa.gov/sju/?n=mar2011cr>

LSR for Flooding in Dorado... locally heavy rainfall			
..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...	...MAG....	..COUNTY LOCATION...ST	...SOURCE....
..REMARKS...			
0855 PM	FLOOD	DORADO	18.47N 66.27W
03/29/2011		DORADO	PR EMERGENCY MNGR
SEVERAL ROADS FLOODED IN HIGUILLAR...BARRIO PUERTOS...URB DORADO DEL MAR...DOWNTOWN STREETS...MAGUAYO AND EXIT RAMPS OF PR-22.			

Although towards the end of March, locally heavy rainfall and isolated thunderstorms produced some reports of localized flooding across the Islands, as is evidenced from the preceding Local Storm Report, no significant river flooding had been reported. In

addition, the weekly updated [U.S. Drought Monitor](#) did include some areas in PR in an “Abnormally Dry” designation.

The approximate amounts of Hydrologic Products issued during the month of March 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)	0
Flash Flood Statements (SJUFFSSJU)	0
Urban/Small Stream Flood Advisories (SJUFLSSJU)	16

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 [March 2011 totals](#).