

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  
May              2008

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  
7/15/2008

*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 5.00 inches of rain for the month of May ... 0.29 inches less than the normal of 5.29 inches. The ASOS rainfall report at Truman Field in St. Thomas reported 0.06 inches of rain for the month of May ... 3.31 inches less than the normal of 3.36 inches.

The San Juan rainfall report of 5.00 inches for the month of May is a little on the misleading side since it suggests that the area was about to continue to transition into a typical wet period. While that was the case at the beginning and the end of the month...overall...the region remained atypically dry with no rain reported for many days at a time. At the beginning of the month, the rivers were running relatively high and the soils in the upper levels were moist in many areas. This...coupled with a nearly stationary front, tropical moisture and interacting jet energy produced pockets of locally heavy rains which led to significant within bank rises on may rivers with some minor flooding reported along the local rivers .

The Rio Grande de Arecibo, Rio Limon, Rio Cibuco, Rio Guajataca and Rio Culebrinas all exceeded flood stage in response to a rainfall event at the beginning of the month. Maximum rainfall amounts in the area stretching from the West Central to North and Western Puerto Rico, for the 24 hour period ending at 7 am on May 3<sup>rd</sup>, 2008 ranged from 3.5 to 4.5 inches. Flash Flooding and mudslides were reported in numerous areas around the island including Lares and Utuado.

**Monthly GAGE ONLY Summary for MAY 2008**

As mentioned in last month's report - In order to positively impact the rainfall deficits in the long term across the Region, rainfall events need to be more frequent, of lower intensity and over a broader area. The Virgin Islands have also been experiencing rainfall deficits over the past couple of years.

Please note the following drought related graphic...updated weekly:  
[http://www.drought.unl.edu/dm/DM\\_state.htm?PR](http://www.drought.unl.edu/dm/DM_state.htm?PR)

Hydrologically...there was considerable activity at the beginning and the ending of the month of May as supported by the number of products issued during that time frame.

**Table 1 - Hydrologic Products Issued**

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	7
Flood Warnings (SJUFLWSJU)	4
Flash Flood Warnings (SJUFFWSJU)	6
Flash Flood Statements (SJUFFSSJU)	4
Urban/Small Stream Flood Advisories (SJUFLSSJU)	51