

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
June 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
07/16/2011

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 13.60 inches of rain for the month of June; 10.08 inches greater than the normal of 3.52 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 3.37 inches for the month of June; 1.02 inches greater than the normal of 2.35 inches.

As May ended; June began, with a continuation of the wet pattern that resulted in [widespread flooding in May](#). The first half of June featured a persistent trough extending northeast from a low in the southwest Caribbean Sea, placing Puerto Rico and the U.S. Virgin Islands in low level southeast flow. The middle and upper level flows during the time added the dynamic component which was also "fed" by very high precipitable water. These conditions led to frequent heavy rain and significant flooding, usually induced by afternoon surface heating, but often prolonged to other times of the night by the favorable dynamic flow. The pattern relaxed during the latter half of the month, but overall June rainfall totals would be one for the record books. As a result, June 2011 was determined to be the wettest June on record for San Juan; the second wettest June on record at the airport in St. Croix and with a total of 7.31" and 2011 represents the eight wettest start to a year in St. Thomas with a total of 19.01 at the airport.

Please see (<http://www.srh.noaa.gov/sju/?n=jun2011cr>) for more climate statistics.

Only extreme Southwestern Puerto Rico seemed to escape significant flooding during this period; for the remainder of the forecast area, flooding was significant and persistent. From the guts of the U.S. Virgin Islands to the smaller and "larger" basins of Puerto Rico, the flooding waxed and waned with the pulsing of energy and convective activity from day to day. Because of the pulsing nature of the event, the rivers and streams remained swollen over an extended period of time but the nature of the event did not lead to catastrophic impacts.

Below you see a table of various reports of flood impacts across the islands. For specific river crests ... see the [Flood Stage Report for June](#).

**Flooding and Landslide Reports for June 2011
(not all reports are posted here)**

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		
0655 PM 06/04/2011	FLOOD	MAYAGUEZ MAYAGUEZ	18.20N 67.14W PR TRAINED SPOTTER
	ROAD 102 FLOODED NEAR PARQUE DE LOS PROCERES.		
0658 PM 06/04/2011	FLOOD	HORMIGUEROS MAYAGUEZ	18.14N 67.12W PR TRAINED SPOTTER
	SEVERAL AREAS ALONG ROAD 114 FLOODED.		
0701 PM 06/04/2011	FLOOD	MAYAGUEZ MAYAGUEZ	18.20N 67.14W PR TRAINED SPOTTER
	ROAD 64 FLOODED NEAR SECTOR EL MANI.		
0811 PM 06/04/2011	FLOOD	W MANATI MANATI	18.43N 66.48W PR EMERGENCY MNGR
	RIVER RIO GRANDE DE MANATI WAS BEGINNING TO OVERFLOW ITS BANKS AT SECTOR CACHETE, HIGHWAY 2 AT THE INTERSECTION WITH PR-666.		
0300 AM 06/07/2011	FLOOD	FREDERIKSTED SAINT CROIX	17.71N 64.88W VI COUNTY OFFICIAL
	HUMAN SERVICES BUILDING FLOODED		
1000 AM 06/07/2011	FLOOD	FREDERIKSTED SAINT CROIX	17.71N 64.88W VI COUNTY OFFICIAL
	AREAS OF FLOODING INCLUDED SAINT PETERS REST...HIGHWAY EAST OF THE AIRPORT...QUEEN MARY AGRICULTURE AREA...BENJAMIN DRIVE RICHMOND SENIOR CENTER...ALDERSVILLE SENIOR CENTER		
0401 AM 06/08/2011	FLASH FLOOD	MANATI MANATI	18.43N 66.48W PR EMERGENCY MNGR
	RIVER RIO GRANDE DE MANATI WAS BEGINNING TO OVERFLOW ITS BANKS AT HIGHWAY 2 BETWEEN KM.50 AND THE BORDER OF BARCELONETA AND MANATI.		
0615 PM 06/14/2011	FLOOD	VEGA ALTA VEGA ALTA	18.42N 66.32W PR EMERGENCY MNGR
	ROAD 620 IN FATIMA SECTOR, 647 IN OJO DE AGUA SECTOR, AND		

ROADS 675,676 AND 690 IN BAJURA SECTOR WERE REPORTED IMPASSABLE DUE TO RIO CIBUCO OUT OF ITS BANKS.

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

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	4
Flood Watches (SJUFFASJU)	5
Flood Warnings (SJUFLWSJU)	21
Flash Flood Warnings (SJUFFWSJU)	30
Flash Flood Statements (SJUFFSSJU)	29
Urban/Small Stream Flood Advisories (SJUFLSSJU)	164

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 [June 2011 totals](#).