

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
July 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
08/15/2011

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 11.08 inches of rain for the month of July; 6.92 inches greater than the normal of 4.16 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 3.16 inches for the month of July; 0.74 inches greater than the normal of 2.42 inches.

"July 2011 began with showers and thunderstorms across several sectors of Puerto Rico as the result of an active tropical wave across the region. Widespread rainfall amounts around 4 inches accompanied this event. Days after, much drier weather returned to the region, with only passing trade wind showers observed across eastern sections of Puerto Rico and the U.S. Virgin Islands each morning, with scattered afternoon showers and thunderstorms observed across western Puerto Rico each afternoon. By mid July, several tropical waves had reached the local area. A broad area of disturbed weather associated with the strongest tropical wave brought a very moist and unstable air mass across the local islands around the 23rd of the month, resulting in widespread showers and areas of flooding across portions of the forecast area. By the end of the month, the widespread heavy rains ended, and once again, shower and thunderstorm activity shifted to a more typical pattern, with areas of locally induced activity."

Excerpt from Climate Report... Please see (<http://www.srh.noaa.gov/sju/?n=jul2011cr>) for more climate statistics.

The greatest river responses from the rainfall during the month of July was in the eastern third of Puerto Rico including the San Juan Metropolitan Area where in addition to urban and poor draining flooding around the city, significant rises were also experienced in the Puerto Nuevo basin along the Rio Piedras at Senorial and Hato Rey and the Rio Grande de Loiza basin at numerous locations along its length. Some flooding was also noted in the Western Interior and the West Coast along the Rio Grande de Arecibo and the Rio Culebrinas.

For specific river crests ... see the [Flood Stage Report for July](#).

Below you see a table of various reports of flood impacts across the islands.

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

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..TIME...    ...EVENT...    ...CITY LOCATION...
...LAT.LON...
..DATE...    ...MAG....    ..COUNTY LOCATION..ST..
...SOURCE....
                ..REMARKS..

1145 AM      FLASH FLOOD      SAN JUAN          18.41N
66.06W
07/03/2011          SAN JUAN          PR    NWS EMPLOYEE

                MINILLAS TUNNEL CLOSED DUE TO FLOODING.

1000 PM      FLOOD            S AGUADILLA      18.44N
67.15W
07/27/2011          AGUADILLA        PR    EMERGENCY
MNGR

                MAIN ROAD LEADING TO COLOSO HAD FLOODED DUE TO THE
RISING                WATERS OF CULEBRINAS RIVER.

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

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	10
Flood Warnings (SJUFLWSJU)	6
Flash Flood Warnings (SJUFFWSJU)	20
Flash Flood Statements (SJUFFSSJU)	15
Urban/Small Stream Flood Advisories (SJUFLSSJU)	204

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 [July 2011 totals](#).