

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
September 2010

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
10/22/2010

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 8.86 inches of rain for the month of September; 3.26 inches greater than the normal of 5.60 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 2.69 inches for the month of September; 2.65 inches less than the normal of 5.34 inches.

"September 2010 began with hurricane Earl located well northwest of the local islands while tropical storm Fiona was situated east of the Leeward Islands. No major problems associated with these two cyclones were reported across the forecast area. By the second week of the month, the remnants of former tropical storm Gaston tracked south of the local islands as a drier air mass moved into the area. Days after, another tropical system caught the attention of residents across the northeastern Caribbean, as major hurricane Igor was forecasted to pass less than 500 nautical miles from the local islands. After hurricane Igor passed to the northeast of the local islands, a high pressure system built across the east central Atlantic and subsidence around Igor prevailed across the local area. By the end of the month, a surge of deep moisture from the southeast Caribbean reached the local area, increasing shower and thunderstorms activity."

(Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=sep2010cr>)

Not much in the way of noteworthy flooding across the region during the month of September. A large number of Urban and Small Stream Advisories were issued, as is the case during the rainy season, as afternoon convection leads to the customary urban/poor drainage and small stream flooding but larger scale flooding was limited to the Rio Culebrinas Basin in Western Puerto Rico in early September and the San Juan Metro area flooding towards the end of the month. There was some coastal flooding from High Surf with the effect of the passage of some nearby tropical systems but that was not related to river/inland flooding.

(See the LSRs and E3 flood stage reports for details)

**LSRs due to inland
Flooding for the month of September**

909 PM AST SUN SEP 26 2010

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..TIME...    ...EVENT...    ...CITY LOCATION...    ...LAT.LON...
..DATE...    ....MAG....    ..COUNTY LOCATION..ST..    ...SOURCE.....
    ..REMARKS..
  
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0332 PM      FLOOD          SAN JUAN              18.41N 66.06W
09/26/2010   SAN JUAN          PR                    EMERGENCY MNGR
  
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ROUTE 176 FLOODED IN CUPEY.

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

Table 1 - Hydrologic Products Issued

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	3
Flood Warnings (SJUFLWSJU)	1
Flash Flood Warnings (SJUFFWSJU)	1
Flash Flood Statements (SJUFFSSJU)	1
Urban/Small Stream Flood Advisories (SJUFLSSJU)	122

For monthly “radar totals” use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on 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 [September 2010 totals](#).