

NWS Form E-5
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(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 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
10/06/2011

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 6.61 inches of rain for the month of September; 0.84 inches greater than the normal of 5.77 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 4.45 inches for the month of September; 1.13 inches less than the normal of 5.58 inches.

"Tranquil weather conditions prevailed across the local islands during the first week of September. This weather scenario changed around the 12th of the month due to the proximity of Tropical Storm Maria. The moist tail of Maria combined with the mountainous terrain of Puerto Rico to produce a fateful combination, especially on the night of the 12th into the morning of the 13th. This system left another round of impressive rainfall amounts for the third time in 6 weeks, following Tropical Storm Emily and Tropical Storm/Hurricane Irene. Rainfall accumulations were between 4 to 6 inches with locally higher amounts of up to 10 inches. Days after, a normal weather regime prevailed across the local islands with isolated to scattered showers and isolated thunderstorms each afternoon across the interior and western portions of Puerto Rico. Through September 30th, 2011; this year is the wettest "year to date" with a total of 69.71 inches, 3.5 inches ahead of 2010 which is the wettest year on record."

Excerpt from local Climate Report...Please see the [September Climate Report](#) for more climate statistics.

Compared with the previous couple of months, the month of September was near normal for most of the forecast area. The most active period occurred with the passage of Tropical Storm Maria and although damage was not as widespread as with Tropical Storm/Hurricane Irene, the impact was extremely devastating for the communities impacted. The hardest hit communities were on the southern slopes of Puerto Rico including the communities along the larger rivers with headwaters in the south and south central sections of the island. Larger river basins such as the Rio de la Plata, Rio Grande de Loiza, Rio Grande de Arecibo and Rio Grande de Manati and their tributaries showed significant rises with minor to moderate flooding reported at numerous locations. The smaller basins along the southern slopes experienced flash flooding with the high intensity rainfall. Residents in the communities of Juana Diaz, Salinas and Ponce experienced some of the highest flows of the past few years especially on Rios Toa Vaca and Jacaguas.

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

**Rainfall Associated with Tropical Storm Maria
Greater than 5 inches**

Location	DATE	11	12	13	14	TOTAL
ALPP4 AIBONITO 1 S		0.61	1.34	6.60	3.05	11.6
YBUP4 RIO GUAYANES NR YABUCOA		0.01	0.03	10.71	0.30	11.05
TOXP4 LAGO TOA VACA NR VILLALBA		0.00	1.56	2.58	4.88	9.02
CEIP4 STORMWATER STATION @ NSRR CEIBA		0.06	0.09	7.45	0.43	8.03
PASP4 LAGO PATILLAS NR PATILLAS		0.06	0.02	6.57	0.44	7.09
VINP4 BARRIO APEADERO NR VILLALBA		0.11	0.07	4.05	2.83	7.06
MSCP4 BISLEY METEOROLOGICAL STATION		0.73	0.37	2.13	3.09	6.32
COAP4 RIO COAMO @ HWY 14 @ COAMO		0.00	0.01	4.12	2.08	6.21
PARP4 BO. MARIN NR PATILLAS		0.12	0.09	5.39	0.39	5.99
NGHP4 QUEBRADA GUABA NR NAGUABO		1.04	0.06	1.95	2.70	5.75
LICP4 LAGO ICACOS @ DAMSITE		0.85	0.01	1.52	3.32	5.7
PATP4 RIO GRANDE DE PATILLAS NR PATILLAS		0.04	0.00	5.25	0.40	5.69
SLGP4 QUEBRADA BLANCA SAN LORENZO		0.26	0.25	2.30	2.61	5.42
SLMP4 QUEBRADA ARENAS SAN LORENZO		0.10	0.44	3.36	1.46	5.36
JUBP4 LAGO GUAYABAL @ DAMSITE NR JUANA DIAZ		0.00	0.98	M	4.26	5.24

Flooding and Landslide Reports for September 2011

..TIME...	...EVENT...	...CITY LOCATION...	...LAT.LON...
..DATE...MAG....	..COUNTY LOCATION..ST..	...SOURCE....
	..REMARKS..		
0524 PM 09/13/2011	FLASH FLOOD	NAGUABO NAGUABO	18.21N 65.74W PR NEWSPAPER
	A 60 YEAR OLD WOMEN WAS SWEEP AWAY AT ROAD 31, PITINA SECTOR IN NAGUABO. SHE WAS RESCUED BY POLICE OFFICERS.		
0603 PM 09/12/2011	HEAVY RAIN E0.00 INCH	NAGUABO NAGUABO	18.21N 65.74W PR EMERGENCY MNGR
	HEAVY RAINS LEAD TO URBAN ROADWAY FLOODING ALONG PORTIONS OF HIGHWAY 53 BETWEEN NAGUABO AND CEIBA...MAKING IT INTRANSITABLE.		
0550 PM 09/12/2011	HEAVY RAIN E0.00 INCH	FAJARDO FAJARDO	18.33N 65.66W PR EMERGENCY MNGR
	HEAVY RAINS LEAD TO URBAN AND ROADWAY FLOODING ALONG HWY 3 AND HWY 53 NEAR PUERTO DEL REY AND ROOSEVELT ROADS CEIBA MAKING THE ROADS IMPASSABLE.		

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

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	13
Flood Warnings (SJUFLWSJU)	16
Flash Flood Warnings (SJUFFWSJU)	32
Flash Flood Statements (SJUFFSSJU)	22
Urban/Small Stream Flood Advisories (SJUFLSSJU)	183

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 [September 2011 totals](#).