

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
January 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
02/11/2010

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 11.07 inches of rain for the month of January; 8.05 inches more than the normal of 3.02 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 3.42 inches for the month of January; 1.53 inches more than the normal of 1.89 inches. *“After the 3rd driest December on record, January 2010 ended the month as the single wettest January ever recorded at the Luis Muñoz Marin International Airport in San Juan.” (Excerpts from SJU’s climate summary)*

As a result of the copious amounts of rainfall during the middle of January along the North Coast ...reaching into the El Yunque rain forest in Northeastern Puerto Rico... there were many reports of flooding across these affected areas. Most of the reported flooding could be categorized as urban and small stream flooding while the most significant river impacts were experienced along the Rio Cibuco, Rio Espiritu Santo and the Rio Fajardo.

Here is an excerpt from a climate summary that explains the unusual rainfall amounts that were responsible for this flooding ... *“A record rainfall of 2.56 inches fell at the Luis Muñoz Marin International Airport in San Juan Puerto Rico on January 13, 2010. This broke the old record of 1.85 inches set back in 1959. Additionally, a record 3.51 inches of rain fell at the Luis Muñoz Marin International Airport on January 14, 2010. This surpasses the old record rainfall total of 1.13 inches set back in 1996. While the single day record for rainfall in the month of January stands at 4.98 inches, which fell on January 26, 1969, the two day rainfall of 6.07 inches represents the wettest 2 day period ever record in San Juan during the month of January.”* (<http://www.srh.noaa.gov/sju/?n=record100114>)

Below is a table of Local Storm Reports for mid-January.

LSRs from flooding ...mainly along the North and East Coast of Puerto Rico				
0420 PM 01/15/2010	FLOOD	VEGA ALTA VEGA ALTA	PR	18.42N 66.32W EMERGENCY MNGR
EMERGENCY MANAGER REPORTED THAT ROAD 647 IN VEGA ALTA IS CLOSED DUE TO FLOODING.				
0330 PM 01/15/2010	FLOOD	LOIZA LOIZA	PR	18.43N 65.88W EMERGENCY MNGR
EMERGENCY MANAGER REPORTED THAT DUE TO THE FLOODING				

WATERS...PIECES OF ROAD 951 IN LOIZA WERE COMING OFF.				
0330 PM 01/15/2010	FLOOD	TRUJILLO ALTO TRUJILLO ALTO	PR	18.36N 66.02W EMERGENCY MNGR
EMERGENCY MANAGER REPORTED MUDSLIDES WITH ROCKS AT ROAD 941 IN BARRIO LA GLORIA. ROCK FALLING INTO ROAD 181 IN SECTOR DOS BOCAS. ALSO FLOOD WATERS FROM A SMALL STREAM IN DOS BOCAS ENTERED A RESIDENCE AND FLOODED IT.				
0330 PM 01/15/2010	FLOOD	VEGA ALTA VEGA ALTA	PR	18.42N 66.32W EMERGENCY MNGR
EMERGENCY MANAGER REPORTED THAT ROAD 676 IN SECTOR BAJURAS WAS CLOSED DUE TO FLOODING.				
1025 AM 01/15/2010	FLOOD	VEGA ALTA VEGA ALTA	PR	18.42N 66.32W EMERGENCY MNGR
VEGA ALTA EMERGENCY MANAGER REPORTED FLOODING WATERS JUST DOWNSTREAM FROM THE RIO CIBUCO AND RIO MAVILLA INTERSECTION. ROAD 620 IN SECTOR FATIMA IN VEGA ALTA WILL BE CLOSED DUE TO THE FLOODING WATERS OVER THE BRIDGE AND ROAD.				
1200 AM 66.40W 01/15/2010	FLOOD	VEGA BAJA VEGA BAJA	PR	18.44N EMERGENCY MNGR
RT 160 AT PR2 IN ALMIRANTE NORTE IMPASSABLE DUE TO HIGH WATER.				
0600 PM 01/14/2010	FLOOD	BARCELONETA MANATI	PR	18.45N 66.54W EMERGENCY MNGR
ROAD 140 IN BARRIO CATANITO FLOODED DUE TO RECENT RAINS.				
0600 PM 01/14/2010	FLOOD	FAJARDO FAJARDO	PR	18.33N 65.66W EMERGENCY MNGR
THE FAJARDO RIVER CAME OUT OF ITS BANKS AND FLOODED PORTIONS OF THE ROAD INTERSECTING HIGHWAY 3 AND HIGHWAY 53 IN FAJARDO.				
0953 PM 01/13/2010	FLASH FLOOD	VEGA ALTA VEGA ALTA	PR	18.42N 66.32W EMERGENCY MNGR
ROAD 620 IN CANDELARIA SECTOR IN VEGA ALTA WAS FLOODED DUE TO RIO CIBUCO OUT OF ITS BANKS.				
0528 PM 01/14/2010	FLOOD	RIO GRANDE RIO GRANDE	PR	18.38N 65.84W BROADCAST MEDIA
MEDIA REPORTS RIVER FLOODING ALONG THE RIO ESPIRITU SANTO IN RIO GRANDE AFFECTING ROAD 956.				
0515 PM 01/13/2010	FLOOD	SAN JUAN SAN JUAN	PR	18.41N 66.06W EMERGENCY MNGR
STREET FLOODED IN URB UNIVERSITY GARDENS, RIO PIEDRAS... NEAR ESCUELA SOTERO FIGUEROA...INTERSECTION PALMA REAL.				

0630 AM 01/14/2010	FLOOD	CATANO CATANO	PR	18.45N 66.14W NWS EMPLOYEE
ROAD 165 PARTIALLY FLOODED NEAR SECTOR AMELIA DUE THE PERSISTENT RAIN.				
0630 AM 01/14/2010	FLOOD	CATANO CATANO	PR	18.45N 66.14W NWS EMPLOYEE
ROAD 165 PARTIALLY FLOODED NEAR SECTOR AMELIA DUE THE PERSISTENT RAIN.				
0130 PM 01/14/2010	FLASH FLOOD	CATANO CATANO	PR	18.45N 66.14W EMERGENCY MNGR
EIGHT TO TEN FAMILIES WERE EVACUATED FROM THEIR HOUSES DUE THE FLASH FLOODING NEAR SECTOR JUANA MATOS.				
0831 PM 01/13/2010	FLOOD	SAN JUAN SAN JUAN	PR	18.41N 66.06W EMERGENCY MNGR
ROAD FLOODED ON EXPRESO BALDORIOTY DE CASTRO...MINILLAS TUNNEL...IN DIRECTION TO SAN JUAN AND BAYAMON.				

The approximate amounts of Hydrologic Products issued during the month of January 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)	5
Flood Warnings (SJUFLWSJU)	3
Flash Flood Warnings (SJUFFWSJU)	3
Flash Flood Statements (SJUFFSSJU)	3
Urban/Small Stream Flood Advisories (SJUFLSSJU)	39

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 [January 2010 totals](#).