

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
MONTH            YEAR  
December        2009

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  
01/12/2010

*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 1.83 inches of rain for the month of December; 2.74 inches less than the normal of 4.57 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 3.18 inches for the month of December; 0.44 inches more than the normal of 2.74 inches. *(Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=2009climaterreport>)*

While the majority of December was dry across the forecast area, [December 24<sup>th</sup>](#) and [December 25<sup>th</sup>](#) stood out because they were the wettest days of the month which in turn evolved into the most hydrologically active period across the region. By the evening of December 24<sup>th</sup>, a Flood Watch was issued for most of Puerto Rico and the U.S. Virgin Islands as heavy rain began to envelope the area due to shower and thunderstorm development from the interaction of local effects and a low pressure center slowly drifting east northeast across the forecast area.

Maximum rainfall reports from this event ranged from 5 to 9 inches. The two highest reports in Puerto Rico were 7.13 inches in San Lorenzo and 9.0 inches in Aibonito.

<b>Top Five 24 Hour Rainfall Reports</b>		
ALPP4	9.00	:AIBONITO 1S, PR (PR)
SLGP4	7.13	:QUEB BLANC/SAN LOREN (PR)
VAMP4	6.44	:BARRIO MONTONES RAIN (PR)
SLMP4	6.25	:QUEB ARENAS RAINGAGE (PR)
GUVP4	5.96	:LAS PIEDRAS CON RAIN (PR)
NGKP4	5.96	:R BLANCO NR FLORIDA (PR)

The runoff from this rainfall resulted in Flash Flooding in Aibonito, Fajardo, Las Piedras and Naguabo. Rapid and significant rises were also noted on the Rio Fajardo, Rio Naguabo, Rio Gurabo, Rio de La Plata and the Rio Grande de Loiza and many of its tributaries.

<b>LSRs from flooding on 12/24/2009 – 12/25/2009</b>			
0900 PM 12/24/2009	FLASH FLOOD	FAJARDO FAJARDO	18.33N 65.66W PR AMATEUR RADIO
NEWPHEWS CAR WAS SWEEPED AWAY AT 9 PM IN URB. VEVE CALZADA.			
1140 PM 12/24/2009	FLASH FLOOD	FAJARDO FAJARDO	18.33N 65.66W PR EMERGENCY MNGR
ROAD 3 WITH INTERSECTION WITH ROAD 53 IMPASSABLE DUE TO RIO FAJARDO OUT OF ITS BANKS.			
0221 AM 12/25/2009	FLASH FLOOD	LAS PIEDRAS LAS PIEDRAS	18.18N 65.87W PR EMERGENCY MNGR
FIVE CARS WERE STRANDED IN ROAD 31 GOING NORTHEAST THROUGH NAGUABO.			
0221 AM 12/25/2009	FLASH FLOOD	LAS PIEDRAS LAS PIEDRAS	18.18N 65.87W PR EMERGENCY MNGR
ROAD 936 CLOSED DUE TO FLOODING.			
0221 AM 12/25/2009	FLASH FLOOD	NAGUABO NAGUABO	18.21N 65.74W PR EMERGENCY MNGR
5 NEIGHBORHOODS WERE FLOODED AT ROAD 3, TROPICAL BEACH SECTOR IN NAGUABO.			
0221 AM 12/25/2009	FLASH FLOOD	NAGUABO NAGUABO	18.21N 65.74W PR EMERGENCY MNGR
INTERSECTION BETWEEN ROAD 3 AND ROAD 192 IN NAGUABO WAS FLOODED.			
1016 PM 12/24/2009	FLASH FLOOD	FAJARDO FAJARDO	18.33N 65.66W PR OFFICIAL NWS OBS
RIO FAJARDO AT PARAISO REACHED TWO FEET OVER FLOOD STAGE 10.1 FEET			

The approximate amounts of Hydrologic Products issued during the month of December 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)	2
Flash Flood Warnings (SJUFFWSJU)	7
Flash Flood Statements (SJUFFSSJU)	3
Urban/Small Stream Flood Advisories (SJUFLSSJU)	21

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 [December 2009 totals](#).