

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
MONTH            YEAR  
April            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  
05/12/2010

*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 3.46 inches of rain for the month of April; 0.25 inches less than the normal of 3.71 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 2.29 inches for the month of April; 0.10 inches less than the normal of 2.74 inches.

The dominant weather feature across the local region at the beginning of the month was a mid level high pressure system which helped to maintain dry and stable conditions. This feature was replaced by the middle to the end of the month, when a mid level perturbation in combination with abundant low level moisture, brought widespread shower activity with embedded heavy rainfall - resulting in flooding across some portions of the region.

"The highest 24-hour precipitation total across Puerto Rico for the month of April was 11.00", which fell at Negro Corozal over the 24 hour period ending at 8am April 16<sup>th</sup>. The highest weekly rainfall across Puerto Rico also occurred at Negro Corozal, where 16.36" of rain accumulated the week ending April 16<sup>th</sup>. Across the U.S. Virgin Islands, the highest 24-hour precipitation total was at East Hill on Saint Croix, where 1.28" fell over the 24 hour period ending at 8am on April 12<sup>th</sup>. For the week ending April 16<sup>th</sup>, 2.45" of rain fell at East Hill on Saint Croix, representing the highest weekly rainfall across the U.S. Virgin Islands for the month of April."... (Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=apr2010cr>)

Another period of localized heavy rain occurred on April 23<sup>rd</sup> and 24<sup>th</sup> which resulted in significant small stream, urban flooding and debris flow in numerous areas of Interior Puerto Rico, including but not limited to, Utuado, Yauco, Corozal and Barranquitas.

Unfortunately, flooding on the Rio Loco in Yauco on April 23<sup>rd</sup> claimed some lives as a vehicle was swept away at a low water crossing. An Urban and Small Stream Flood Advisory had been issued that afternoon for rapid rises on small streams and rivers as a band of heavy showers and thunderstorms moved through that area...with the "Turn Around Don't Drown" call-to-action statement included. This was a tragedy.

<b>Other 24 Hour Rainfall Reports</b>			
<b>24 hour totals are from 12z – 12z (8am to 8am)</b>			
ZOBP4	7.60	:RIO GUANAJIBO-SAB GR (PR)...	4/24/10
BAUP4	7.29	:RIO BAUTA/OROCOVIS (PR)...	4/24/10
ROP4	5.61	:LAGO DE MATRULLAS (PR)...	4/24/10
LADP4	4.99	:LG ADJUNTAS/ADJUNTAS (PR)...	4/24/10
VIVP4	4.56	:LG VIVI/UTUADO 4SSE (PR)...	4/24/10
JAMP4	4.53	:BRIO COLLORES/JYUYA (PR)...	4/24/10
VEDP4	4.14	:R ESPIRITU SANTO-R G (PR)...	4/25/10
ELPP4	3.35	:EL PORTAL/LQILLO 4SW (PR)...	4/25/10

During this same period, flooding was experienced, to a lesser degree, across NE Puerto Rico. The communities that were the most affected were once again Luquillo, Rio Grande and Fajardo; the same communities that endured flooding a week earlier.

<b>LSRs from flooding in April 2010</b>			
0801 PM 04/13/2010	FLOOD	LUQUILLO LUQUILLO	18.38N 65.72W PR EMERGENCY MNGR
ROAD 983 AND 940 WERE IMPASSABLE DUE TO FLOODING.			
0801 PM 04/13/2010	FLOOD	LUQUILLO LUQUILLO	18.38N 65.72W PR EMERGENCY MNGR
HACIENDA CARABALI WAS REPORTED FLOODED AND SURROUNDING AREAS NEAR PART OF MAMEYES DUE TO RIO SABANA OUT OF ITS BANKS.			
0841 PM 04/13/2010	FLASH FLOOD	FAJARDO FAJARDO	18.33N 65.66W PR EMERGENCY MNGR
HEAVY RAINFALL ALONG RIO FAJARDO CAUSED IT TO COME OUT OF ITS BANKS AND FLOOD HIGHWAY 3 IN THE PARAISO AREA BETWEEN FAJARDO AND CEIBA.			
0841 PM 04/13/2010	HEAVY RAIN E0.00 INCH	SAN JUAN SAN JUAN	18.41N 66.06W PR EMERGENCY MNGR
HEAVY RAINFALL AND BLOCKED DRAINAGE LEAD TO URBAN FLOODING IN THE CONDADO AREA AND ALONG THE COASTAL ROADWAY OF OCEAN PARK.			
0845 PM 04/13/2010	FLASH FLOOD	RIO GRANDE RIO GRANDE	18.38N 65.84W PR EMERGENCY MNGR

ROAD 191 THAT GOES UP INTO EL YUNQUE FLOODED.				
1015 AM 04/13/2010	FLOOD	2 SSE LUQUILLO LUQUILLO	PR	18.35N 65.71W EMERGENCY MNGR
1 LANE BLOCKED BY STANDING WATER IN FRONT OF WALGREENS IN SECTOR TROPEZON.				
0815 PM 04/23/2010	FLASH FLOOD	2 NE UTUADO UTUADO	PR	18.29N 66.68W EMERGENCY MNGR
RIO GRANDE DE ARECIBO FLOODED ROUTE 605 NEAR VIVI ARRIBA, ROUTE 140 NEAR PASO PALMA AND ROUTE 611 NEAR SABANA GRANDE.				
0815 PM 04/23/2010	FLASH FLOOD	3 NW YAUCO YAUCO	PR	18.07N 66.89W EMERGENCY MNGR
RIO LOCO IN YAUCO FLOODED CARRYING A VEHICLE WITH 4 PASSENGERS AWAY IN BARRIO SUSUA ALTA				
**(Loss of life)**				
0353 PM 04/24/2010	AVALANCHE	2 E RIO GRANDE RIO GRANDE	PR	18.38N 65.82W EMERGENCY MNGR
MUDSLIDE BLOCKED HIGHWAY 966 AT KM 1.6 IN BARRIO JIMENEZ SECTOR CARA DE INDIO				
0237 PM 04/24/2010	FLASH FLOOD	2 S RIO GRANDE RIO GRANDE	PR	18.35N 65.84W EMERGENCY MNGR
HIGHWAY 191 FLOODED CLOSE TO RIO DEL YUNQUE--6 TO 7 PERSONS TRAPPED				
0108 PM 04/24/2010	AVALANCHE	5 WSW LUQUILLO RIO GRANDE	PR	18.36N 65.79W EMERGENCY MNGR
MUDSLIDE IN BARRIO EL VERDE SECTOR BELLA VISTA CALLE AMAPOLA				
1248 PM 04/24/2010	AVALANCHE	COROZAL COROZAL	PR	18.34N 66.31W EMERGENCY MNGR
MUDSLIDE IN BARRIO PALOS BLANCOS SECTOR DOS BOCAS ON HIGHWAY 807 KM 5.4				
0918 AM 04/24/2010	AVALANCHE	3 WNW BARRANQUITAS BARRANQUITAS	PR	18.20N 66.35W EMERGENCY MNGR
MUDSLIDE IN COROZAL, BARRIO RADIO ORO SECTOR LOW MARREROS HIGHWAY 156E KM2.2				
0904 AM 04/24/2010	AVALANCHE	5 NW COMERIO NARANJITO	PR	18.28N 66.27W EMERGENCY MNGR
MUDSLIDE IN SECTOR SABANA HIGHWAY 811 BARIO CEDRO ABAJO				
0814 AM 04/24/2010	FLASH FLOOD	RIO GRANDE RIO GRANDE	PR	18.38N 65.84W EMERGENCY MNGR
ROAD AND CARS FLOODED AT CALLE 1 AT THE INTERSECTION OF CALLE 2 IN FRONT OF CLINICO DIAGNOSTICO Y TRATAMIENTO				

0759 AM	AVALANCHE	COROZAL	18.34N 66.31W
04/24/2010		COROZAL	PR EMERGENCY MNGR
MUDSLIDE BARRIO DOS BOCAS SECTOR TATO LOPEZ CLOSE TO BAR MARTINEZ			

The approximate amounts of Hydrologic Products issued during the month of April 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)	6
Flood Warnings (SJUFLWSJU)	5
Flash Flood Warnings (SJUFFWSJU)	15
Flash Flood Statements (SJUFFSSJU)	13
Urban/Small Stream Flood Advisories (SJUFLSSJU)	78

**Excerpts from the URBAN AND SMALL STREAM FLOOD ADVISORY ...  
FLSSJU issued at 4:30 pm on April 23<sup>rd</sup>**

.../O.NEW.TJSJ.FA.Y.0067.100423T2046Z-100423T2230Z/...

THE NATIONAL WEATHER SERVICE IN SAN JUAN HAS ISSUED AN

\* URBAN AND SMALL STREAM FLOOD ADVISORY FOR RAPID RIVER RISES IN FOR THE FOLLOWING MUNICIPALITIES...

IN PUERTO RICO  
CIALES...JAYUYA...ADJUNTAS...MARICAO...MOROVIS...SABANA GRANDE...UTUADO...YAUCO...LARES...GUAYANILLA...JUANA DIAZ AND PONCE

\* UNTIL 630 PM AST

\* AT 437 PM AST DOPPLER RADAR ESTIMATED VERY HEAVY RAIN IN THE ADVISORY AREA.

AT 4:30 PM AST NWS RADAR SHOWED A BAND OF HEAVY SHOWERS AND THUNDERSTORMS WITH FREQUENT CLOUD TO GROUND LIGHTNING ACROSS THE NORTHERN PORTIONS OF SABANA GRANDE...GUAYANILLA...YAUCO...PONCE AND JUANA DIAZ AS WELL AS THE SOUTHERN PORTIONS OF LARES AND CIALES...

.....

MOST FLOOD DEATHS OCCUR IN AUTOMOBILES. NEVER DRIVE YOUR VEHICLE INTO AREAS WHERE THE WATER COVERS THE ROADWAY. FLOOD WATERS ARE USUALLY DEEPER THAN THEY APPEAR. JUST ONE FOOT OF FLOWING WATER IS POWERFUL ENOUGH TO SWEEP VEHICLES OFF THE ROAD. WHEN ENCOUNTERING FLOODED ROADS MAKE THE SMART CHOICE...TURN AROUND...DONT DROWN.

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 [April 2010 totals](#).