NWS Form E-5	U.S. DEPARTMENT OF COMMERCE	HYDROLOGIC SERVICE AREA (HSA)
(04-2006)	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	San Juan, Puerto Rico
(PRES. BY NWS Instruction 10-924)	NATIONAL WEATHER SERVICE	REPORT FOR: February 2016

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
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SIGNATURE
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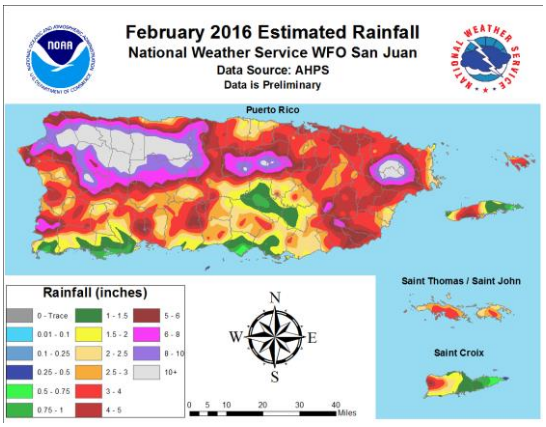
DATE
03/15/2016

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

Summary: A seasonable weather pattern prevailed across the local islands during the month of February with trade wind showers observed from time to time. These showers were enhanced sporadically by favorable upper level dynamics. Heavy rain at times led to a notable reduction in drought intensity and coverage across Puerto Rico, raising the 3-month precipitation to above average across the western half of the island as well as the island's eastern tier. Based on the Cooperative Observer Network Data (COOP), a 126 % of the normal rainfall was observed across PR. Preliminarily, an average rainfall total of 3.27 inches was measured, which is 0.67 inches above normal. Across the U.S. Virgin Islands, rainfall accumulation was near normal at St Thomas/ St John and above normal at St Croix. At the primary climate data sites, the ASOS at the San Juan Airport in Puerto Rico reported 3.88 inches of rain, which is 1.49 inches above normal. The ASOS rainfall report from Cyril E. King Airport in St. Thomas and Henry E. Rohlsen Airport in St. Croix was 1.43 and 1.47 inches, respectively. This is normal at TIST but 0.18 inches below normal at TISX.



February 2016 rainfall totals based on AHPS data. (Click on the image to enlarge)

Please also see February's Climate Report:
(http://www.srh.noaa.gov/images/sju/climo/monthly_reports/2016/Feb2016.pdf).

River and Drought Conditions: Based on the 28-day average streamflow from the USGS, the majority of streamflows are running between the 25th and the 90th percentile, which is in the normal to above normal range. However, a few locations across the eastern interior are still running below the 24th percentile. Heavy rains during mid-February led to a notable reduction in drought intensity and coverage. Puerto Rico's lingering drier-than-normal conditions are now mostly confined to areas from San Juan to the southern coastline, where D1 and D2 drought categories persist. The D3 category has been removed.

Water Supply: Lake levels at water supply reservoirs are in optimum conditions. However aquifer and ground water levels are still struggling in the Salinas area along the south coast of the island, where groundwater levels are currently low to well below normal. The dry season continues across the local islands.

Flood Conditions: No flooding was reported through the period. However, some hydrology products were issued due to minor urban flooding and rises in small streams.

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

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	0
Flood Warnings (SJUFLWSJU)	0
Flash Flood Warnings (SJUFFWSJU)	0
Flash Flood Statements (SJUFFSSJU)	0
Urban/Small Stream Flood Advisories (SJUFLSSJU)	4

General Hydrology Information: Most models suggest a strong El Niño lasting into the NH spring of 2016, but quickly weakening and fading away. SSTs have been and are still above average north of the Caribbean Islands. Warm SSTs north and east of the islands may lead to above-average air moisture for MAM and JJA in the north of the Caribbean. Therefore, there is a higher chance for normal to above normal rainfall across Puerto Rico and the U.S. Virgin Islands based on CariCOF seasonal forecast. Based on forecast and current hydrologic conditions, there is normal potential for flood across the western half of PR, excluding the southern slopes. Across the Southern Slopes of PR and the eastern sections of the forecast area, including, Culebra,Vieques and the USVI, the flood potential is below to normal.