

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  
April            2007

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  
4/16/2007

*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 9.52 inches of rain for the month of April ...5.81 inches more than the normal of 3.71 inches. The ASOS at Truman Field in St. Thomas was inoperable through the period.

April began with dry weather but a wet pattern slowly emerged over the region by mid-April which led to lots of heavy rainfall towards the end of the month. A near stationary weather pattern was to blame for the longevity of the event as a mid to upper level trough remained northwest of the local area. This upper level feature in combination with a surface trough, a moist and unstable air mass and local effects resulted in the development of showers and thunderstorms across the local islands with the bulk of the rainfall in the Virgin Islands and along the northern coast of Puerto Rico including the San Juan Metro Area. The end result was moderate localized flooding in Puerto Rico and the Virgin Islands.

Five day rainfall totals...3 inches or greater are as follows:

04/19/07-12 UTC thru 04/24/07-12 UTC

ID	4/20	4/21	4/22	4/23	4/24	sum
rpop4	0.01	0.00	2.98	2.94	1.80	7.73
vgbp4	0.00	0.00	0.00	6.60	0.75	7.36
vedp4	0.00	0.01	0.73	3.55	2.66	6.95
msep4	0.00	0.00	1.07	2.50	3.34	6.91
fajp4	0.45	0.03	0.28	3.74	2.26	6.77
ardp4	0.00	0.01	1.47	1.83	3.02	6.34
msap4	0.00	0.00	0.33	2.82	3.11	6.26
coap4	1.24	3.92	0.72	0.28	0.00	6.16
corp4	0.00	0.04	0.55	4.27	1.27	6.14
verp4	0.00	0.00	0.78	2.93	2.28	5.99
nghp4	0.17	0.00	0.17	2.16	2.82	5.32
zddp4	1.61	0.43	0.08	2.72	0.35	5.20
faep4	0.50	0.05	0.18	2.77	1.54	5.05
cvav3	0.00	0.00	2.01	0.01	2.76	4.78
juap4	0.21	4.37	0.06	0.12	0.00	4.76
vinp4	1.61	0.96	0.00	1.71	0.08	4.36
licp4	0.11	0.00	0.01	2.89	1.29	4.30

largp4	0.00	0.00	0.33	2.00	1.93	4.26
uthp4	0.00	0.00	0.09	2.29	1.85	4.23
quep4	0.01	1.09	0.01	1.41	1.66	4.18
arhp4	0.00	0.00	0.98	1.24	1.85	4.07
ceip4	0.00	0.34	0.29	2.70	0.73	4.07
zlap4	0.98	2.87	0.08	0.08	0.00	4.01
bayp4	0.03	0.01	0.80	2.09	0.99	3.92
agap4	0.00	0.04	0.03	3.66	0.06	3.79
orop4	0.82	0.12	0.00	1.88	0.90	3.72
ciap4	0.00	0.00	0.50	2.29	0.93	3.73
zgbp4	1.81	0.98	0.16	0.35	0.31	3.62
prtp4	0.18	1.44	0.00	1.98	0.00	3.61
cibp4	0.00	0.00	0.58	1.74	1.25	3.58
pcyp4	0.08	3.34	0.01	0.13	0.01	3.58
gusp4	0.08	0.01	0.06	2.59	0.65	3.39
larp4	0.00	0.19	0.02	1.80	1.33	3.35
gcrp4	0.04	2.77	0.13	0.22	0.18	3.35
capp4	0.00	0.13	1.18	1.39	0.57	3.27
namp4	0.04	0.01	0.68	1.45	1.03	3.21
carp4	1.73	1.31	0.02	0.08	0.02	3.16
bzbp4	0.01	0.03	1.25	0.98	0.86	3.13
pasp4	0.00	2.92	0.02	0.17	0.01	3.13
narp4	0.04	0.06	0.59	1.20	1.18	3.07
gmnp4	0.00	2.75	0.22	0.07	0.01	3.06
slmp4	0.13	2.31	0.14	0.27	0.15	3.01
tovp4	0.57	2.01	0.00	0.34	0.08	3.00

The hardest hit areas in Puerto Rico extended from the San Juan Metro area over to Vega Baja where 3 day rainfall totals were between 6 and 8 inches. Highway, street and urban flooding was widespread across the entire region with some serious flooding in Barrio Carrizales in Arecibo, Barrio Sabana Hoyos in Vega Baja and Barrio Obrero in San Juan. In Barrio Algarrobo, Vega Baja, as a result of flooding along the Cibuco River, twenty families were stranded as floods created huge sinkholes along access roads. Over 120 homes were damaged in Vega Baja, Dorado, Manati, Vega Alta and San Juan. In St. Thomas and St. John in the U.S. Virgin Islands, the heavy rain and flooding forced school closings. While the flooding was extensive along the North coast of Puerto, the gaged river locations did not show similar responses. The few rivers that responded showed rises in the minor category.

Please note the following drought related graphics:

<http://www.drought.unl.edu/dm/monitor.html>

**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)	0
Flash Flood Warnings (SJUFFWSJU)	21
Flash Flood Statements (SJUFFSSJU)	13
Urban/Small Stream Flood Advisories (SJUFLSSJU)	85