

NWS FORM E-5 (11-88) (PRES. by NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) NEW ORLEANS/BATON ROUGE, LA	
		MONTH JULY	YEAR 2007
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE PAUL S. TROTTER, METEOROLOGIST-IN-	
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230	DATE OCTOBER 15, 2007		
CHARGE Silver Spring, MD 20910-3283			

When no flooding occurs, include miscellaneous river conditions, 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.

...DROUGHT CONDITIONS EASED OVER MISSISSIPPI IN JULY 2007...

July started with return flow from the Gulf of Mexico over southeastern Louisiana and southern Mississippi. During the week of July 2nd through July 8th, many locations had five to seven days of rain. Isolated locations had over 4.0 inches that week. Areal average rain amounts ranged from 2.49 inches across east-central Louisiana to 2.22 inches over southeast Louisiana to 3.10 inches over coastal Mississippi.

During the second week of July, rain amounts were lighter over the Atchafalaya Basin. However, isolated locations had 3.0 to 4.0 inches across southeast and east-central Louisiana. Weekly areal totals were 1.74 and 1.88 inches over east-central and southeast Louisiana, respectively, but less than 1.0 inch over south-central and coastal Mississippi.

From July 16th through the end of the month, a series of "cold fronts" provided the dynamics for thunderstorms. Heavy rain developed the week of July 16th through July 22nd over southeast Louisiana, with isolated totals of 3.00 to 4.40 inches. Areal rainfall for that region was 2.53 inches. Conditions were similar over southeast Louisiana from July 23rd to July 29th, with isolated amounts of 3.0 to around 4.0 inches again. Areal rainfall for that region was 1.71 inches. On July 30th and July 31st, a dissolving front focused thunderstorm development. At Baton Rouge, 6.00 inches developed on July 31st, alone. Areal averages rainfall (inches) for the month of July:

Agricultural Region	Areal Average	Departure from Normal
Southwest/South Central Mississippi (4 Sites)	6.48	+0.90
Coastal Mississippi (5 sites)	2.79	-4.10
East Central Louisiana	6.34	+0.36
Southeast Louisiana	8.35	+1.38
South Central Louisiana (3 Sites)	4.66	-1.92

Drought...

July started with normal soil conditions in Louisiana over all but the Florida Parishes. Across the Florida Parishes and coastal Mississippi soils were mostly abnormally dry (D0) through the first week of July. Moderate drought (D1) persisted over most of southwest Mississippi in early July, with small areas of severe drought (D2) lingered over northern portions of Amite and Walthall Counties. Heavy rainfall allowed marked improvement across the region by mid-July. Soil moisture became normal over all of southeastern Louisiana and most of southwestern and coastal Mississippi. Abnormally dry conditions (D0) lingered throughout July over the northern portions of Wilkinson, Amite, Pike, and Walthall Counties, along with the eastern half of Jackson County in Mississippi.