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**
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH **AUGUST** YEAR **2007**
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		SIGNATURE PAUL S. TROTTER, METEOROLOGIST-IN-CHARGE DATE **OCTOBER 15, 2007**

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)

X **An X inside this box indicates that no flooding occurred within this hydrologic service area.**

…BELOW NORMAL RAINFALL ALLOWED SOILS TO DRY OUT AGAIN IN AUGUST 2007…

At the start of August, high pressure dried the airmass over southeastern Louisiana and southern Mississippi. After the flow returned from across the Gulf of Mexico on August 4th and August 5th, scattered thunderstorms developed. Many areas had rain totals for the first days of August of over 1.0 inch.

From August 6th through August 15th, hot, dry weather persisted. Aside from the coastal regions of Mississippi and Louisiana, very little rain occurred. On August 16th, Tropical Storm Erin made landfall in Texas and brought rain to the southernmost parishes of Louisiana.

The weather was like a rollercoaster during the second half of August. After August 17th, return flow from the Gulf of Mexico brought typical, summertime heat and humidity, with scattered thunderstorms. The week of August 20th had very little rain. Then, at the very end of the month, widespread thunderstorms helped to relieve the dry conditions. Many areas had rain totals over 2.0 inches from August 27th through August 31st, with amounts over 3.0 inches in southeast Louisiana.

Agricultural Region	Areal Average	Departure from Normal
Southwest/South Central Mississippi (4 Sites)	1.89	-2.97
Coastal Mississippi	4.01	-1.68
East-Central Louisiana	3.27	-2.24
Southeast Louisiana	4.96	-1.34
South Central Louisiana (3 Sites)	4.03	-2.09

Drought…

At the start of August, soil moisture was normal over all of southeastern Louisiana and most of coastal Mississippi. However, abnormally dry conditions (D0) lingered over the northern portions of Wilkinson, Amite, Pike, and Walthall Counties, along with the eastern half of Jackson County in Mississippi for the first three weeks of the month. The lack of significant rains for much of August allowed soils to dry out again. By August 28th, abnormally dry conditions had spread over all of southwest Mississippi and most of Jackson and Pearl River Counties. Soils also became abnormally over small parts of Hancock and Harrison Counties in Mississippi, as well across most of the Florida Parishes of Louisiana.