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 **DECEMBER** 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 **JANUARY 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.**

...Abnormally Dry Conditions Spread over Southeastern Louisiana and southern Mississippi in December…

High pressure produced fair weather over southern Mississippi and southeastern Louisiana at the start of December. From December 3rd through December 16th, scattered showers produced light rain as several frontal boundaries moved across the region. Areal rain amounts averaged around 0.1 inch or less though December 9th. For the second week, areal rain totals averaged 0.2 inch or less over the area.

After a period of cold, fair weather, moisture returned over southern Mississippi and southeastern Louisiana by December 19th. Weather became dynamic when a low pressure system formed in the Gulf of Mexico and impacted the region. Rain was widespread from December 19th through the 23rd, with rain totals of over 3.0 inches at several locations. The greatest areal average rainfall amounts were 1.9 inches over east-central Louisiana and 1.71 inches over southeast Louisiana.

After another period of cold, but fair weather, another low pressure area developed and tracked along the Louisiana coast. By December 26th, turbulent conditions occurred with localized heavy rain amounts. After a one-day respite, another round of dynamic weather developed December 28th. Widespread rain produced totals of over 3.0 inches again at several locations. Areal rainfall totals for the week ranged from 3.17 inch over southeast Louisiana to 1.32 inch over east-central Louisiana.

High pressure dominated the weather the last two days of December, although some over-running rainfall occurred in east-central and southeast Louisiana. Rain totals were generally less than 0.20 inch.

Agricultural Region	Areal Average	Departure from Normal
Southwest/South Central Mississippi (4 Sites)	4.30	-1.60
Coastal Mississippi	4.60	-0.38
East Central Louisiana	3.43	-1.78
Southeast Louisiana	5.14	+0.48
South Central Louisiana (3 Sites)	3.56	-1.74

Drought…

At the start of December, soil moisture conditions were normal over all of southeastern Louisiana and southwestern Mississippi. Abnormally dry conditions (D0) persisted over parts of Pike and Walthall Counties of Mississippi. By December 18th, abnormally dry conditions had become established over southeastern Louisiana, southwest Mississippi and the western portions of Pearl River and Hancock Counties. Normal soil conditions remained over the remainder of coastal Mississippi.