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| 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) NWFO New Orleans/Baton Rouge, LA |
| | | REPORT FOR: MONTH YEAR AUGUST 2009 |
| MONTHLY REPORT OF HYDROLOGIC CONDITIONS | | SIGNATURE Kenneth Graham, Meteorologist-In-Charge |
| TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283 | | DATE September 15, 2009 |

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.

...Pleasant Summer Weather Alternated with Locally Heavy Rains in August...

Typical, summer weather became established over southeastern Louisiana and southern Mississippi during August. From early August on, periods of return flow from the Gulf of Mexico helped to prime the atmosphere for thunderstorms. By August 12th, a cold front had moved across the region. The front stalled along the coast on August 13th, before moving back north as a warm front. This weather event produced significant rainfall at many locations. During the first half of August, weekly areal average rain totals were generally between 0.75 inch and 1.50 inches.

Return flow from the Gulf brought abundant moisture into southern Mississippi and southeastern Louisiana from August 17th through 20th. Numerous thunderstorms and locally heavy rains developed again. Cooler, drier air behind the front gave the first hint of fall's approach. Heavy rainfall during the week ending August 23rd yielded areal rainfall totals between 2.00 and 2.50 inches across southeastern Louisiana and southern Mississippi. Some locations had six days of rain.

Pleasant weather persisted as the week opened on August 24th with high pressure and relatively cool, dry air. By August 26th, the fair weather had eroded, while an upper-level low pressure area induced thunderstorms. A slow-moving front moved across the region on August 29th and 30th and helped produce more storms. Areal rainfall for the last days of August ranged from near 0.10 inch to near 0.50 inch.

| Monthly Reports by Agricultural Region | Areal Average | Departure from Normal |
|--|---------------|-----------------------|
| Central Louisiana (3 Sites) | 2.18 | -3.43 |
| East Central Louisiana | 5.40 | -0.11 |
| South Central Louisiana (7 Sites) | 3.84 | -1.91 |
| Southeast Louisiana | 6.62 | +0.32 |

Extreme Rainfall for the Month (Inches and Departure from Normal)

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|------------------|-------|-----|---------------------------------------|------|-------|
| Terrytown 3S, LA | 10.29 | N/A | New Orleans International Airport, LA | 9.50 | +3.35 |
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Drought...

Throughout August, moderate drought (D1) conditions persisted over Pearl River and Hancock Counties in Mississippi, as well as across the River Parishes of Louisiana, across the Florida Parishes, and across the region around Lake Pontchartrain. Soil conditions were abnormally dry (D0) over the remainder of the region.