

<b>NWS Form E-5</b> (04-2006) (PRES. BY NWS Instruction 10-924)	<b>U.S. DEPARTMENT OF COMMERCE</b> <b>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION</b> <b>NATIONAL WEATHER SERVICE</b>	HYDROLOGIC SERVICE AREA (HSA) <b>NWFO New Orleans/Baton Rouge, LA</b>
		REPORT FOR: MONTH                      YEAR <b>JUNE                              2009</b>
<b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>		SIGNATURE <b>Kenneth Graham, Meteorologist-In-Charge</b>
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE <b>July 15, 2009</b>

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.

**...Drought Expanded During June...**

Hot and dry conditions typified the weather during June over southeastern Louisiana, southwestern Mississippi, and coastal Mississippi. Surface high pressure dominated the weather patterns overall, though a few weak frontal boundaries helped to focus thunderstorm development. For the week ending June 7<sup>th</sup>, areal rainfall totals ranged from 0.50 to near 1.0 inch. No significant rain occurred over the next two weeks. The weather became more active by June 24<sup>th</sup>, when return flow from the Gulf of Mexico helped produce thunderstorms, mainly over coastal Louisiana and Mississippi. Areal rainfall amounts for the week ending June 28<sup>th</sup> ranged up to 0.77 inch. More significant rainfall developed with a frontal boundary on June 29<sup>th</sup>. The greatest rain totals for the last two days of June were 3.77 inches at Pine Grove, LA; 1.84 at Abita Springs, LA; and 1.75 inches at Mount Herman, LA.

**Flooding...**

Moderate flooding continued along the Mississippi River at Donaldsonville until June 1<sup>st</sup>; at Red River Landing until June 8<sup>th</sup>; and at Baton Rouge until June 9<sup>th</sup>. Flooding ended at Donaldsonville on June 10<sup>th</sup>; at Baton Rouge on June 13<sup>th</sup>; and at Red River Landing on June 17<sup>th</sup>. Minor flooding ended at Reserve on June 7<sup>th</sup>. Moderate flooding continued along the Atchafalaya River at Morgan City until June 5<sup>th</sup>; minor flooding continued into July.

Monthly Reports by Agricultural Region	Areal Average	Departure from Normal
Southwest Mississippi (2 Sites)	0.48	-4.94
South Central Mississippi (2 Sites)	0.02	-5.08
Coastal Mississippi	2.27	-2.87
Central Louisiana (2 Sites)	0.49	-4.68
East Central Louisiana	1.12	-4.01
South Central Louisiana (7 Sites)	1.17	-4.64
Southeast Louisiana	2.20	-3.66

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

Pine Grove, LA	5.65	-0.72	St. Gabriel, LA	0.27	-5.79
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**Drought...**

At the start of June, soil moisture levels were normal over the region. With extended periods of dry weather, abnormally dry (D0) conditions became established over southeastern Louisiana by June 9<sup>th</sup>. The drought worsened by June 23<sup>rd</sup>. Abnormally dry (D0) conditions spread over southwestern and coastal Mississippi and moderate drought (D1) covered most of southeastern Louisiana. By the end of June, moderate drought (D1) conditions had spread across southwestern Mississippi. In the same timeframe, normal soil conditions became established over Jackson County in Mississippi.