

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

<p>An X inside this box indicates that no flooding occurred within this hydrologic service area.</p>
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***...Rainy October Weather Ended Drought over Southeastern Louisiana and Southern Mississippi...***

Though usually considered the dry season, October was unusually wet for southeastern Louisiana, southwestern Mississippi, and coastal Mississippi. The first half of the month started with a front that moved across the Lower Mississippi River Valley and stalled along the Gulf Coast on October 3<sup>rd</sup>. By October 4<sup>th</sup>, substantial rains had fallen across all of southeastern Louisiana and southern Mississippi. That boundary lifted as a warm front and lingered over the region on October 5<sup>th</sup>. Several locations had two-day rainfall amounts for the 4<sup>th</sup> and 5<sup>th</sup> that totaled over 4.00 inches. The highest daily rain total during the week ending October 11<sup>th</sup> was 6.10 inches at Bayou Sorrell, LA. During the period that this front drifted over the region and the Gulf of Mexico, four to five days of rain occurred at many locations. Areal rainfall for the week ending October 11<sup>th</sup> averaged from around 1.35 inches over coastal areas of Louisiana and Mississippi up to 2.46 inches over east central Louisiana.

Another week of heavy rains occurred from October 12<sup>th</sup> through 18<sup>th</sup>. By the time a meandering frontal boundary moved to the Gulf Coast on October 16<sup>th</sup>, Liverpool had recorded 5.5 inches on that one day. Areal rainfall averaged from 1.28 inches along coastal Louisiana up to 2.51 inches over east central Louisiana.

Significant rains developed during the remainder of October. For the week ending October 25<sup>th</sup>, areal rainfall totals averaged less than 0.75 inch. For the last week of October, areal rainfall totals averaged between 1.0 inch and 2.0 inches.

**Flooding...**

Minor flooding briefly occurred along the Atchafalaya River at Morgan City on October 4<sup>nd</sup>, flooding briefly redeveloped on October 9<sup>th</sup>. The heavy rains during the middle of October caused minor flooding on the Tchefuncte River at Covington on October 16<sup>th</sup> and 17<sup>th</sup>. Minor flooding developed on the Lower Pearl River at Bogalusa on October 15<sup>th</sup> and at Pearl River on October 19<sup>th</sup>. That flooding ended by October 28<sup>th</sup> and October 29<sup>th</sup>, respectively. The Atchafalaya River rose to flood stage again on October 20<sup>th</sup>; flooding continued into November.

<b>Monthly Reports by Agricultural Region</b>	<b>Areal Average</b>	<b>Departure from Normal</b>
Southwest Mississippi (4 Sites)	10.25	+6.64
South Central Mississippi (2 Sites)	6.84	+3.21
Coastal Mississippi	6.58	+3.40
Central Louisiana (2 Sites)	8.28	+4.36
East Central Louisiana	8.19	+4.59
South Central Louisiana (6 Sites)	10.62	+8.53
Southeast Louisiana	6.16	+2.81

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

Butte La Rose, LA	16.97	Liverpool, LA	15.03	+11.25	
Baton Rouge, LA	12.82	+9.01	Donaldson, LA	12.66	+8.80

**Drought...**

Most soils had improved by early October, though abnormally dry (D0) conditions persisted across the River Parishes of Louisiana. After the heavy rainfall early in the month, soil conditions became normal by October 6<sup>th</sup> across the entire region. Soils conditions remained normal through the end of October.

*Revised 1/28/2010*