

<b>NWS FORM E-5</b> (11-88) (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>NEW ORLEANS/BATON ROUGE, LA</b>	
<b>MONTHLY REPORT OF HYDROLOGIC CONDITIONS</b>		REPORT FOR: MONTH <b>OCTOBER</b>	YEAR <b>2015</b>
<b>E</b>		SIGNATURE KENNETH GRAHAM METEOROLOGIST-IN-CHARGE	
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		DATE <b>NOVEMBER 15, 2015</b>	

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)

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

*...Tropical Rains Return Depleted Soil Moisture Contents to Normal Levels in October...*

Unsettled weather at the start of October, produced spotty rainfall across southern Mississippi and southeastern Louisiana. Some rain developed by October 11<sup>th</sup>, though amounts were generally light and mostly over southwest Mississippi. Little to no rainfall occurred across southeastern Louisiana and coastal Mississippi for the weather week that ended on October 11<sup>th</sup>.

Two weak cold fronts crossed the region after October 12<sup>th</sup>. Spotty rain fell across the Florida Parishes, across the Coastal Parishes, and across coastal Mississippi. Most locations measured no rain. Areal-averaged rainfall amounts were generally 0.01 inch through October 18<sup>th</sup>.

After spotty storms on October 21<sup>st</sup>, unstable weather, fueled by the remnants of Hurricane Patricia, induced strong thunderstorms on October 24<sup>th</sup> and 25<sup>th</sup>. Several locations measured over 2.0 inches of rain during the week, with isolated amounts over 3.0 inches reported. Areal-averaged rainfall totals ranged from around 0.6 inch to near 2.4 inches.

The stormy weather continued after a low pressure area developed over the Gulf of Mexico and tracked across the region on October 26<sup>th</sup> and 27<sup>th</sup>. Efficient storms produced copious rains with widespread amounts over 8.0 inches measured across the region. Clinton, LA had 10.80 inches and Livingston, LA measured 10.35 inches on October 26<sup>th</sup>. A series of boundaries moved through by October 29<sup>th</sup>. The third front stalled along the Gulf Coast with more heavy rainfall. By the end of the week, many locations had rainfall totals over 8.0 inches. Areal average totals were generally from near 5.0 inches up to 6.35 inches across southeastern Louisiana and southern Mississippi.

**Flooding...**

From October 25<sup>th</sup>, copious rainfall impacted the area's rivers. Flooding developed that day on the Comite River at Joor Road. By October 26<sup>th</sup>, flooding started in Mississippi along the Buffalo River at Woodville and along the Tangipahoa River at Osyka. In Louisiana, flooding developed along the Tickfaw River at Montpelier and at Liverpool and continued for several days. Flooding ended at Woodville, MS on October 26<sup>th</sup>.

By October 27<sup>th</sup>, flooding started on the Tickfaw River at Holden; on the Tangipahoa River at Robert; and on the Amite River at Denham Springs. Through the next few days, the flooding also developed on the Amite River at Bayou Manchac Point, Little Prairie, and French Settlement. All flooding has receded by October 31<sup>st</sup>, except at French Settlement where flooding continued into November.

Monthly Reports by Agricultural Region	Areal Average	Departure from Normal
Southwest Mississippi (2 Site)	10.33	N/A
South Central Mississippi (1 Site)	11.54	+ 7.79
Coastal Mississippi	4.30	+ 0.53
Central Louisiana (2 Sites)	10.70	+ 5.94
East Central Louisiana	8.78	+ 4.55
South Central Louisiana (5 Sites)	9.04	+ 4.34
Southeast Louisiana	6.43	+ 1.97

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

Baton Rouge Airport (BTR), LA	15.13	+10.43	Livingston, LA	11.60	+ 6.89
Carville, LA	13.22	+ 8.12	Baker, LA	11.36	+ 6.26
New Roads, LA	12.06	+ 7.42	Liberty, MS	11.16	
Pine Grove Fire Tower, LA	11.57	+ 6.61	Clinton, LA	11.11	+ 6.23
McComb Airport (MCB), MS	11.54	+ 7.79			

**Drought...**

Moderate Drought (D1) conditions persisted over southwest Mississippi and much of southeastern Louisiana at the start of October. Abnormally Dry (D0) conditions were briefly established over the River Parishes and coastal Mississippi, after heavy rainfall late in September. Isolated areas had normal soil conditions.

From October 6<sup>th</sup> through October 20<sup>th</sup>, soil moisture contents greatly deteriorated to Severe Drought (D2) conditions across much of southern Mississippi and the Florida Parishes. Moderate Drought and Abnormally Dry conditions lingered only along the Gulf Coast and extreme southeast Louisiana.

Remnant moisture from Hurricane Patricia helped fuel rainfall late in October. The sustained drought conditions across southern Mississippi and southeastern Louisiana eroded, as soil moisture contents returned to normal levels across the entire region by October 27<sup>th</sup>.

***Along with other information sources, data and reports are routinely mined from the following:***

*NOAA National Weather Service*

*NOAA Southern Regional Climate Center*

*Louisiana Office of State Climatology*

*Mississippi Office of State Climatology*

*Harrison County Emergency Management Agency*

*United States Geological Survey*

*United States Army Corps of Engineers*

*St. Tammany Parish Office of Engineering*

*USDA/National Drought Mitigation Center*

*Mississippi and Louisiana CoCoRaHS*