

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
FEBRUARY 2010

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Kenneth Graham, Meteorologist-In-Charge

DATE
March 15, 2010

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.

...Very Cold Weather for Southeastern Louisiana and Southern Mississippi in February...

February began with fair weather over southeastern Louisiana, southwestern Mississippi, and coastal Mississippi. Indicative of El Nino winters, by February 4th, a low pressure area developed over the western Gulf of Mexico. The storm system produced widespread rains over Louisiana and southern Mississippi. Across the region, rain totals of three to four inches were common. Areal rainfall totals for the week ending February 7th ranged from 2.75 inches over a large part of the region to 4.05 inches over southeast Louisiana. Boothville, Louisiana measured 12.43 inches during the week.

High pressure became established over the region after February 5th, with relatively mild weather and southeast winds. By February 10th, strong area of low pressure formed in the western Gulf of Mexico. This system tracked along Louisiana's coast through February 12th and produced rain across much of Louisiana. Later, this precipitation became frozen and fell as sleet and snow. Areal average rainfall totals ranged from 2.13 inches over east-central Louisiana to 2.78 inches over southeast Louisiana.

North winds kept cold, dry air over the region through February 19th. By February 21st, inclement weather returned, as a cold front approached Louisiana and Mississippi. For the week ending February 21st, areal average rainfall totals for the week ranged from 0.25 to 0.40 inch over the region. After a brief period of fair weather, wind shifted to the southeast on February 26th. With abundant moisture from the Gulf of Mexico, the next front produced widespread rainfall again. Areal average rainfall for the week ending February 28th ranged from 0.41 inch over coastal Mississippi to 1.12 inches over southeast Louisiana.

Flooding...

The Atchafalaya River rose above the flood stage at Morgan City, LA in late January. Minor flooding continued throughout February and into March at Morgan City. The Lower Pearl River rose above flood stage in late January at Bogalusa, LA and at Pearl River, LA. Conditions worsened at Pearl River when the river rose above 17 feet, the moderate flood level, on February 9th. Flooding continued at both locations until late February.

Heavy rains during the first week of February caused widespread minor flooding. Floods developed on the Lower Mississippi River at Red River Landing; on the Tickfaw River at Liverpool, LA; on the Tangipahoa River at Robert, LA; on the Tchefuncte River at Covington, LA; on the Bogue Falaya River at Camp Covington and downtown Covington, LA; on the Bogue Chitto River at Tylertown, MS and Bush, LA; on the West Hobolochitto River at McNeil MS; on the East Hobolochitto River at Caesar, MS; on the Wolf River at Gulfport, MS; on the Biloxi River at Lyman, MS; and on the Tchoutacabouffa River at D'Iberville, MS. Flooding ended for all but Red River Landing by February 9th, where flooding continued on the Mississippi River until late in February.

Additional flooding developed during the second week of February on the Pascagoula River at Graham Ferry in Mississippi and on the Lower Mississippi River at Baton Rouge, LA. This flooding ended by February 15th and 19th, respectively.

Monthly Reports by Agricultural Region	Areal Average	Departure from Normal
Southwest Mississippi (2 Sites)	4.90	N/A
South Central Mississippi (2 Sites)	6.89	+1.40
Coastal Mississippi	6.13	+0.58
Central Louisiana (2 Sites)	6.07	+0.78
East Central Louisiana	6.04	+0.72
South Central Louisiana (6 Sites)	5.78	+0.96
Southeast Louisiana	8.59	+3.71

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

Boothville, LA	17.36	+13.21	Livingston, LA	10.03	+4.40
Napoleonville, LA	2.68	-2.01	Hammond, LA	3.48	-2.13

Drought...

Soils conditions remained normal throughout February across southeastern Louisiana and southern Mississippi.