

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

APRIL

YEAR

2015

SIGNATURE

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DATE

MAY 15, 2015

TO: Hydrometeorological Information Center, W/OH2
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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.

...Spring Floods Developed over Southeastern Louisiana and Southern Mississippi...

Return flow from the Gulf of Mexico pushed into southeastern Louisiana and southern Mississippi over the first days of April. Spotty rain showers developed area wide on April 4th and 5th, with isolated rain totals during the week of more than 1.0 inch. Heavier rainfall developed over central Louisiana, where New Roads reported 2.70 inches for the week. Areal rainfall totals generally ranged from 0.05 inch up to 0.35 inch.

By April 6th, a frontal boundary helped focus convection and induced considerable rainfall over Louisiana and Mississippi. During this period, several locations had two-day rain totals over 2.0 inches. By April 10th, another frontal system helped focus more thunderstorms. Areal average rainfall for the weather week ending April 12th ranged from near 0.75 inch to around 1 inch.

Stormy weather developed across southeastern Louisiana and southern Mississippi through April 19th. Copious rains occurred when a front stalled over the region and then hugged the coast. Widespread rain totals of 2.0 to 6.0 inches were measured across extreme southeast Louisiana and coastal Mississippi. Bayou Manchac reported 9.41 inches for the week; Boothville reported 8.65 inches; Terrytown measured 8.37 inches; and New Orleans had 8.14 inches at Lakefront Airport. Areal average rainfall totals for the week ranged from 2.75 inches to 7.38 inches over extreme southeast Louisiana.

Stormy weather continued through the end of April, as a series of cold fronts moved across the region. Periods of strong thunderstorms produced severe weather and rainfall totals over 2.0 occurred at several locations. Areal average rainfall amounts ranged from 0.6 inch up to around 1.5 inches by April 26th.

Flooding...

Due to the heavy rainfall over the region in late in March, flooding developed on the Mississippi River at Red River Landing and Baton Rouge. At Red River Landing the flooding continued into May. At Baton Rouge, the flooding ended by April 8th. Floods also redeveloped on the Pearl River at Bogalusa and Pearl River; that flooding ended by April 1st.

By mid-April, copious rainfall induced flooding on the Tangipahoa River at Robert; on the East Hobolochitto Creek at Caesar; MS; on the Wolf River at Gulfport, MS; on the Biloxi River at Lyman, MS; and on the Tchoutacabouffa River near D'Iberville, MS. That flooding had ended by April 16th.

Floods redeveloped late in April on the Mississippi River at Baton Rouge and on the Pearl River at Bogalusa and Pearl River. Those flood events continued into May.

Monthly Reports by Agricultural Region

	Areal Average	Departure from Normal
Southwest Mississippi (2 Sites)	N/A	N/A
South Central Mississippi (1 Site)	5.92	+1.04
Coastal Mississippi	11.81	+7.23
Central Louisiana (2 Sites)	8.86	+4.40
East Central Louisiana	7.79	+2.60

South Central Louisiana (6 Sites)	11.31	+6.84
Southeast Louisiana	10.30	+6.30

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

Stennis/Diamondhead, MS	18.88	+14.48	Gonzales, LA	12.85	+8.08
New Orleans Lakefront (NEW), LA	16.24	+12.23	Saucier, MS	12.82	+7.88
Bayou Manchac Point, LA	15.85		Bayou Sorrell, LA	12.79	+7.54
Donaldsonville, LA	14.10	+8.92	Waveland, MS	12.70	+7.66
Biloxi, MS	13.60	+9.12	Thibodaux, LA	12.66	+8.46
Terrytown, LA	12.98	+8.77	Marrero, LA	12.30	+7.69

Drought...

At the start of April, Abnormally Dry (D0) conditions persisted over most of southeastern Louisiana and southern Mississippi. Moderate Drought (D1) conditions lingered over extreme southeastern Louisiana, along with Hancock and Pearl Counties in Mississippi. After April's heavy rainfall events, soil moisture contents returned to normal levels over the entire region by April 21st.

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

<i>NOAA National Weather Service</i>	<i>United States Geological Survey</i>
<i>NOAA Southern Regional Climate Center</i>	<i>United States Army Corps of Engineers</i>
<i>Louisiana Office of State Climatology</i>	<i>St. Tammany Parish Office of Engineering</i>
<i>Mississippi Office of State Climatology</i>	<i>USDA/National Drought Mitigation Center</i>
<i>Harrison County Emergency Management Agency</i>	<i>Mississippi and Louisiana CoCoRaHS</i>