

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
JANUARY 2011

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
FEBRUARY 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.

...Cold Weather Persisted in January...

The month began with stormy weather, as a cold front pushed across southeastern Louisiana and southern Mississippi. Heavier rains occurred before New Year's Day. However, additional rain totals up to 0.4 inch developed across the region on January 1st. Behind the front, high pressure and very cold weather developed.

A frontal boundary stalled over southern Mississippi and southeastern Louisiana on January 5th and produced significant rainfall region-wide. More rain developed with another front January 8th and 9th. Areal rainfall totals for the week ending January 9th, ranged from 0.7 inch to 1.21 inches.

After rains on January 10th, high pressure and very cold temperatures became entrenched over southeastern Louisiana and southern Mississippi until January 14th. After a slight warming trend began January 15th, rainfall developed again. Areal rainfall totals for the week ending January 16th ranged from 0.2 to 0.6 inch.

Relatively mild weather dominated the weather January 17th, before a near-stationary front along the Gulf coast produced widespread rainfall on January 18th. Areal average rainfall for the week ending January 23rd ranged from near 0.5 to around 1.0 inch.

A low pressure system tracked across southern Louisiana on January 25th, bringing substantial rainfall to the area. A weak upper level disturbance provided the focusing mechanism to produce widespread rainfall on January 30th and 31st. Areal rainfall averages for the week ending January 30th ranged from 1inch to 1.5 inches.

Monthly Reports by Agricultural Region	Areal Average	Departure from Normal
Southwest Mississippi (2 Sites)	4.05	N/A
South Central Mississippi (2 Sites)	3.92	N/A
Coastal Mississippi	3.36	-2.97
Central Louisiana (3 Sites)	4.99	-1.42
East Central Louisiana	3.89	-2.37
South Central Louisiana (5 Sites)	3.17	-2.58
Southeast Louisiana	3.75	-2.03

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

Brusly, LA	6.25	-0.15	Woodville, MS	3.31	-3.84
St. Francisville, LA	5.69	-1.47	Paradis, LA	1.84	-3.96

Drought...

As January started, moderate drought (D1) covered most of the region, with abnormally dry (D0) soils primarily over the Lower Atchafalaya River Basin. At the same time, severe drought (D2) conditions became established over northern Pearl River County and southeastern Walthall County in Mississippi. These conditions improved slightly during the first week of January, when normal to abnormally dry soil conditions became established over much of the Lower Mississippi and Atchafalaya River Basins. Soil conditions for other regions remained generally unchanged through late-January.