NWS FORM E-5 (11-88) (PRES. by NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

NEW ORLEANS/BATON ROUGE, LA

# MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH: OCTOBER
YEAR: 2014

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE
KENNETH GRAHAM
METEOROLOGIST-IN-CHARGE
DATE
NOVEMBER 15, 2014

*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)*

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

***…Below Normal Rainfall for October Exacerbated Drought Conditions …***

During the first half of October, a series of frontal boundaries induced strong thunderstorms across southeastern Louisiana, southwestern Mississippi, and coastal Mississippi. During the first week, the heaviest rain fell on October 3rd at most locations. Isolated amounts over 1.5 inches occurred, mainly across east-central Louisiana. Areal-average rainfall totals for the weather week that ended October 5th ranged from near 0.8 inch to around 1.25 inches.

From October 6th through October 12th, many locations had no rain. Though rain was scarce, heavier showers developed over extreme southeast Louisiana, where Thibodaux measured 1.69 inches. Areal-average rainfall totals through October 12th ranged from 0.01 inch up to 0.5 inch across extreme southeast Louisiana.

A strong cold front moved across Louisiana and Mississippi starting October 13th. Widespread rain developed, along with severe weather through October 14th. Damaging winds were reported across Ascension, East Baton Rouge, Jefferson, Pointe Coupee, St. Charles, and St. Tammany Parishes. Isolated rain amounts over 1.5 inches were recorded across southeastern Louisiana and coastal Mississippi. Waveland, MS recorded 2.45 inches on October 14th. Areal-average rainfall amounts ranged from around 0.8 inch over extreme southeast Louisiana up to 1.38 inches over east-central Louisiana.

A series of weak frontal boundaries moved across the region during the last days of October. No rain occurred through October 26th. Then isolated, light rain fell on October 29th and 30th. Areal-average rain amounts through the end of the month were less than 0.1 inch across southeastern Louisiana and southern Mississippi.

| **Monthly Reports by Agricultural Region** | **Areal Average** | **Departure from Normal** |
|---|---|---|
| Southwest Mississippi | N/A | N/A |
| South Central Mississippi (1 Site) | 2.12 | -1.63 |
| Coastal Mississippi | 1.57 | -2.09 |
| Central Louisiana (2 Sites) | 2.20 | -2.56 |
| East Central Louisiana | 2.17 | -2.36 |
| South Central Louisiana (6 Sites) | 2.71 | -1.98 |
| Southeast Louisiana | 1.93 | -2.16 |

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

| | | | | | |
|---|---|---|---|---|---|
| Denham Springs, LA | 3.47 | -1.58 | Napoleonville, LA | 3.27 | -0.68 |
| Thibodaux, LA | 3.43 | -1.52 | Convent, LA | 3.19 | -1.55 |
| Baton Rouge/Sherwood, LA | 3.31 | -1.70 | Oaknolia, LA | 2.95 | -1.91 |

**Drought…**

At the start of October, Abnormally Dry (D0) soil conditions were established over Washington Parish, St. Tammany Parish, and coastal Mississippi. Other parts of southeastern Louisiana had normal soil moisture levels.

After a month of below normal rainfall, drought conditions worsened. By October 28th, Abnormally Dry (D0) levels had spread over much of southeastern Louisiana, along with Walthall and Pike Counties in southwestern Mississippi. Normal soil moisture conditions persisted for all or most of West Feliciana, Pointe Coupee, Iberville, Assumption, Ascension, St. James, Terrebonne, and Lafourche Parishes.