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| 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: | YEAR |
| | | MONTH FEBRUARY | 2015 |
| 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 MARCH 15, 2015 | |

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.

...Flooding Developed After Mid- and Late-February Rains...

A series of cold front pushed across Louisiana and Mississippi during the first half of February. Associated storms produced periods of significant rainfall. Areal rainfall amounts averaged from 0.75 inch to around 1.0 inch for the period through February 8th. Little rainfall occurred during the following week, with the exception of areal average rainfall of 0.19 inch across extreme southeast Louisiana.

By February 16th, a warm front had developed over the region, with accompanying widespread rainfall. Another system moved through the region by February 22nd and brought additional rainfall. Areal average rainfall for the period ranged from 0.25 to 0.6 inch.

From February 23rd through the end of the month additional precipitation developed as a large area of low pressure developed along the Gulf Coast. With periods of frozen precipitation mixed with heavy rainfall, areal rain totals for the remainder of February ranged from 0.5 inch to near 1.2 inches.

Flooding...

The Lower Pearl River rose above the flood stage at Bogalusa by February 27th. Flooding continued into March.

Monthly Reports by Agricultural Region

| | Areal Average | Departure from Normal |
|------------------------------------|---------------|-----------------------|
| Southwest Mississippi | N/A | N/A |
| South Central Mississippi (1 Site) | 2.66 | -3.01 |
| Coastal Mississippi | 2.33 | -2.97 |
| Central Louisiana (2 Sites) | 2.99 | -2.67 |
| East Central Louisiana | 2.96 | -2.39 |
| South Central Louisiana (6 Sites) | 2.47 | -2.49 |
| Southeast Louisiana | 2.22 | -2.83 |

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

| | | | | | |
|-----------------|------|-------|----------------|------|-------|
| Convent, LA | 3.95 | -0.84 | Baker, LA | 3.74 | -1.78 |
| Ponchatoula, LA | 3.88 | -1.43 | Pine Grove, LA | 3.40 | -2.79 |

Drought...

Abnormally Dry (D0) conditions persisted over parts of extreme southeast Louisiana and coastal Mississippi at the beginning of February. Moderate drought (D1) conditions lingered over much of Plaquemines and St Bernard Parishes. The remainder of the region had normal soil moisture contents.

During mid-February, soil moisture contents were greatly diminished. Moderate Drought (D1) levels became established over all of southeastern Louisiana and southern Mississippi by February 24th. Moderate Drought (D1) persisted over coastal Mississippi and much of southeastern Louisiana through the end of February. Soil moisture contents recovered to Abnormally Dry (D0) levels over southwest Mississippi and parts of the River Parishes of Louisiana as March began.

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