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 **JULY** YEAR **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 **AUGUST 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.**

…Typical Summer Weather Occurred with Localized Heavy Rainfall in July…

Unstable weather developed across southeastern Louisiana and southern Mississippi as June ended. After localized rainfall amounts of 1.0 inch to 1.2 inches on June 29th and 30th, bouts of severe storms developed through July 5th. Pascagoula, MS measured 4.23 inches and Biloxi, MS measured 2.21 on July 5th. By the end of the weather week, areal average totals ranged from around 1 inch to 1.87 inches over the region.

High pressure dominated the weather for most of July with typical summer thunderstorms. For the weather week that ended July 12th, areal rainfall totals ranged from 0.25 to 0.7 inch. Isolated locations in east central and central Louisiana had rain amounts over 2.0 inches. Little rain fell from July 13th through 19th. Areal average rainfall totals ranged from 0.2 inch to 0.5 inch, mainly across southeastern Louisiana. For the weather week that ended July 26th, areal rainfall totals ranged from 0.2 inch to near 1.0 inch. Isolated totals over 2 inches occurred at Slidell, LA and Thibodaux, LA.

Over the last week of July, the persistent high pressure began to wane. By July 30th, an unusual summer cold front pushed through Louisiana and Mississippi, bringing periods of heavy rainfall and severe weather. The greatest rainfall amounts across southeastern Louisiana were 3.06 inches at LSU Ben Hur Farm and 2.35 inches at Bayou Sorrel Lock. In Mississippi, Liberty measured 2.62 inches on July 31st. Areal average rainfall totals ranged from 0.5 inch to near 1.5 inch.

Flooding…

Minor flooding developed on the Mississippi River at Red River Landing, LA in early June. The river crested at moderate flood level by July 25th. As the wave continued downstream, flooding developed at Baton Rouge, LA on July 5th and crested at moderate level by July 26th. Minor flooding started at Donaldsonville, LA by July 15th. Flooding on the Mississippi River persisted into August at Red River Landing, Baton Rouge, and Donaldsonville.

Monthly Reports by Agricultural Region	Areal Average	Departure from Normal
Southwest Mississippi (1 Site)	7.32	N/A
South Central Mississippi (1 Site)	4.79	- 0.77
Coastal Mississippi	5.29	- 1.52
Central Louisiana (2 Sites)	2.78	- 2.03
East Central Louisiana	4.92	- 0.52
South Central Louisiana (4 Sites)	2.50	- 2.62
Southeast Louisiana	3.93	- 2.88

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

Pascagoula, MS	12.38	+ 5.30	Liberty, MS	7.32	
Baton Rouge/Sherwood, LA	8.50	+ 2.51	Denham Springs, LA	7.28	+ 1.36
Baton Rouge/Concord, LA	7.61	+ 1.41	Biloxi, MS	7.03	- 0.10

Drought…

Soil moisture contents were at normal levels until late July. By July 28th, soil moisture had declined to Abnormally Dry (D0) levels over extreme southeastern Louisiana.

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