

NWS FORM E-5 <small>(11-88)</small> <small>(PRES. by NWS Instruction 10-924)</small>	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 AUGUST	2013
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 SEPTEMBER 15, 2013	

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.

...Periods of Heavy Rainfall Occurred in August over Southeastern Louisiana and Southern Mississippi ...

At the start of August, scattered storms produced rainfall amounts that were below normal across the region. Although isolated rain totals of 0.5 to 1.0 inch were measured by August 4th, areal average rain totals for early August were generally less than 0.5 inch. Many locations had no rain over the first days of the month.

From August 5th through 11th, typical summer convection produced areal average rain totals that ranged from around 0.25 inch up to 0.86 inch. The greatest rain totals were measured over the east-central and southeast districts of Louisiana.

Stormy weather developed across southern Mississippi and southeastern Louisiana during the weather week that ended August 18th. On August 14th and 15th, a cold front, interacting with extremely unstable air, induced widespread thunderstorm development and copious rain amounts. Local rain totals of 2 to 4 inches were measured at several locations. Mt. Hermon, LA measured 5.10 inches over two days, while Denham Springs, LA had 4.05 inches. After the front remained stalled along the Gulf Coast, Sun, LA measured 6.85 inches for the entire week; Boothville, LA measured 5.90 inches; and Mt. Hermon measured 5.44 inches. Along the Mississippi coast, Biloxi measured 5.90 inches for the week, with 5.24 inches on August 18th alone. Areal average rain totals ranged from 1.86 inches up to 4.47 along the Mississippi Gulf Coast.

By August 19th, the frontal boundary that produced copious rains over the area had dissipated. A weak tropical wave helped to induce thunderstorm development up to August 25th. Around the New Orleans Metropolitan area, some locations had five to seven days of rain. The last days of August were hot with scattered thunderstorms. Average areal rainfall totals by August 25rd ranged from around 0.5 inch to 1.37 inches over extreme southeast Louisiana. Areal rainfall totals up to September 1st ranged from 0.1 inch to near 0.6 inch.

Flooding...

Heavy rains induced minor flooding on the West Hobolochitto River at McNeill, MS on August 14th. Flooding ended the next day.

Monthly Reports by Agricultural Region	Areal Average	Departure from Normal
Southwest Mississippi (1 Site)	4.26	N/A
South Central Mississippi (1 Site)	6.43	+1.07
Coastal Mississippi	7.58	+1.40
Central Louisiana (2 Sites)	3.23	-2.21
East Central Louisiana	4.40	-1.11
South Central Louisiana (7 Sites)	4.58	-1.17
Southeast Louisiana	5.40	-0.90

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

Ocean Springs, MS	11.64	+4.67	Boothville (BVE), LA	10.92	+5.01
Pascagoula, MS	11.37	+4.11	Grand Isle, LA	9.14	+2.92

Drought...

From late July into early August, abnormally dry (D0) conditions spread over parts of the Atchafalaya River Basin. Most of St. Landry Parish was impacted, though only small areas of Pointe Coupee, St. Martin, and Iberia Parishes dried out. Normal soil moisture conditions continued over southwestern Mississippi, coastal Mississippi, and most of southeastern Louisiana.

By August 13th, soil moisture conditions had deteriorated over most of southeastern Louisiana, along with parts of coastal Mississippi. With the days of significant rainfall during the second half of August, conditions began to improve after August 20th. Soil moisture contents were normal by August 27th over southwest and coastal Mississippi, as well as most of southeastern Louisiana. Abnormally dry conditions persisted over the Atchafalaya River Basin.