NWS FORM E-5 U.S. DEPARTMENT OF COMMERCE (11-88) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (PRES. by NWS Instruction 10-924) NATIONAL WEATHER SERVICE		HYDROLOGIC SERVICE AREA (HSA)  NEW ORLEANS/BATON ROUGE, LA		
MONTHLY	REPORT OF HYDROLOGIC CONDITIONS	REPORT FOR:  MONTH YEAR  SEPTEMBER 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  OCTOBER 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)



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

...Soil Moisture Deteriorated for Mississippi Coast and Southeast Louisiana as September Ended...

A series of frontal boundaries induced thunderstorms and bouts of severe weather during the first half of September across southeastern Louisiana and southern Mississippi. During the first week of September, a near-stationary frontal boundary spurred stormy weather. Isolated rainfall amounts of greater than 3 inches occurred during the week. Areal average rain totals generally ranged from 0.8 inch up to 1.6 inches for the weather week that ended on September 7<sup>th</sup>.

By September 8<sup>th</sup>, the stationary front was positioned across southern Louisiana and Mississippi. In the convection across the region, heavier rain amounts were recorded over southern Mississippi and southeast Louisiana. Other locations had no rain during the week. The front exited the region by September 13<sup>th</sup>; drier air then dominated the weather. Areal average rain totals for the week ranged from less than 0.1 inch up to 0.67 inch by September 14<sup>th</sup>.

Another near-stationary boundary helped initiate rainfall across the region starting September 15<sup>th</sup>. That front shifted north first and then moved back south to the Gulf Coast by September 20<sup>th</sup>. Heavier rain amounts were recorded over south-central and southeast Louisiana. Donaldsonville recorded 5.27 inches; Carville measured 4.51 inches; Bayou Sorrel Lock had 4.30 inches; and Boothville received 4.15 inches during the week. Areal average rain totals ranged from 0.49 inch over east-central Louisiana up to near 2.5 inches over south-central Louisiana by September 21<sup>st</sup>.

The front moved offshore around September  $22^{nd}$  and lingered over the coastal waters. With high pressure dominating the weather, only spotty rain occurred. Areal average rain totals for the weather week ending September  $28^{th}$  ranged from 0.04 inch to near 0.4 inch. Additional showers developed over the last two days of September. Where rain fell, local amounts were generally from 0.25 inch up to 1.80 inches.

Monthly Reports by Agricultural R	Areal Average	Depai	rture from Normal				
Southwest Mississippi	N/A		N/A				
South Central Mississippi (1 Site)	2.72		- 1.69				
Coastal Mississippi	2.96		- 2.66				
Central Louisiana (2 Sites)	2.56		- 1.80				
East Central Louisiana	3.11		- 1.39				
South Central Louisiana (6 Sites)	4.39		+0.74				
Southeast Louisiana	4.02		- 1.63				
Extreme Rainfall for the Month (Inches and Departure from Normal)							
Donaldsonville, LA 10.74	+5.56	Carville, LA	6.84	+2.60			
Bayou Sorrel Lock, LA 7.71	+2.71	Mt. Hermon, LA	6.51	+2.29			

## Drought...

Soil moisture contents were at normal levels across southeastern Louisiana and southern Mississippi through September 23<sup>rd</sup>. Abnormally Dry (D0) soil conditions became established over Washington Parish, St. Tammany Parish, and coastal Mississippi by September 30<sup>th</sup>.