

<b>NWS FORM E-5</b> (11-88) (PRES. by NWS Instruction 10-924)	<b>U.S. DEPARTMENT OF COMMERCE</b> NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)	
		<b>NWFO NEW ORLEANS/BATON ROUGE, LOUISIANA</b>	
<b>MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS</b>		REPORT FOR:	
		MONTH <b>APRIL</b>	YEAR <b>2005</b>
TO: Hydrometeorological Information Center, W/OH2 NOAA / National Weather Service 1325 East West Highway, Room 7230 Silver Spring, MD 20910-3283		SIGNATURE	
		Paul S. Trotter, Meteorologist-In-Charge	
		DATE	MAY 31, 2005

*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)*

***...Periods of Beautiful Weather along with Heavy Rain Event in April 2005...***

Rainfall over southeastern Louisiana and upstream in Mississippi, produced minor flooding in Louisiana on the Pearl River at Bogalusa and Pearl River in late March. Flooding continued at both locations through April.

The last cold front of March produced severe weather and brief periods of heavy rain, as it crossed the southeastern Louisiana and southern Mississippi on March 31<sup>st</sup> and April 1<sup>st</sup>. Flooding first developed on April 1<sup>st</sup> over Mississippi where the West Hobolochitto Creek flooded at McNeil; the East Hobolochitto Creek flooded at Caesar; the Wolf River flooded at Gulfport; the Biloxi River flooded at Wortham and Lyman; and the Tchoutacabouffa River flooded near D'Iberville. By April 3<sup>rd</sup>, floods had developed at Bush, Louisiana on the Bogue Chitto River, as well as at Graham Ferry on the Pascagoula River and at Orange Grove on the Escatawpa River in Mississippi.

A significant cold front during the second week of April produced scattered thunderstorms with locally heavy rainfall and severe weather. The heaviest rainfall occurred on April 7<sup>th</sup> at Slidell, Galliano, Terrytown, and Port Sulphur, where 3.21, 4.12, 4.43, and 6.57 inches were recorded, respectively. Another front passed through the region April 11<sup>th</sup> and 12<sup>th</sup>. This system produced isolated heavy rainfall, with amounts over 3.0 inches in east-central Louisiana and over 2.5 inches over the New Orleans metropolitan area. Flash floods developed in Orleans Parish.

With this heavy rainfall, river flooding developed in Louisiana on the Bogue Falaya River at Covington and on the Tangipahoa River at Robert. In Mississippi, flooding developed on the West Hobolochitto Creek at McNeil and on the Biloxi River at Lyman.

Fair weather dominated the third week of April. The only significant front crossed the stat on April 22<sup>nd</sup> and produced light rainfall. Most locations recorded no rain during the week; areal rainfall amounts were generally less than 0.05 inch for southeastern Louisiana and southern Mississippi. Minor fluctuations above the flood stage occurred on the Atchafalaya River at Morgan City during this period.

A weak trough along the coast, an advancing warm front from south Louisiana, and a progressive cold front combined to produce scattered thunderstorms by April 25<sup>th</sup>. More scattered storms developed April 29<sup>th</sup> through 30<sup>th</sup>. The month ended with significant rainfall over parts of southeast Louisiana and southern Mississippi. However, areal average rainfall amounts were generally less than 0.75 inch for the week.

The Atchafalaya River remained above its flood stage from April 16<sup>th</sup> through April 30<sup>th</sup>. Flooding continued on the Lower Pearl River until late in April at Bogalusa and at Pearl River in Louisiana. Flooding ended on April 24<sup>th</sup> and 26<sup>th</sup>, respectively.

**Products Issued For River Forecast Points:**

<b>FLW</b>	Flood Warnings	59
<b>FLS</b>	Flood Statements	220

