

RIVERS AND FLOODS.

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Near the end of the month the upper portion of the Trinity River, Tex., was in flood, with a crest stage of 21.1 feet, 6.1 feet above the flood stage, at Bridgeport, on the 28th; and at Dallas the crest stage was 25.5 feet, 0.5 foot above the flood stage, on the 31st. But little damage was reported.

Heavy rains during the first week of August caused a sudden rise in the Neosho River and in the Arkansas below Tulsa, Okla., but flood stages were not reached, except at Fort Gibson, Okla., on the Neosho, and the smaller tributaries. The crest stage at Fort Gibson was 25 feet, 3 feet above the flood stage, on the 6th and 7th. Due warnings were issued for this flood, and property valued at \$21,000 was saved by timely notice. The principal damage was along the smaller streams. Damages to crops to the extent of \$12,000 and to railroads and other property to the extent of \$130,000 were reported. On the 15th the White River at Calico Rock, Ark., rose 21.8 feet in 24 hours to a stage of 25.6 feet, 7.6 feet above the flood stage, and at Batesville, Ark., the flood was 28.4 feet, 10.4 feet above the flood stage, on the 16th. At Black Rock, Ark., on the Black River, the crest stage was 19 feet, 5 feet above the flood stage, on the 16th.

The losses caused by this flood were confined to the crops in the lowlands and amounted to several thousand dollars. On the 24th a second rise occurred in the White River, a crest stage of 18.9 feet being reached at Batesville, Ark.

At the end of the month high waters prevailed in the rivers of western Pennsylvania and in the upper Potomac but flood stages were not reached. The high waters were of great benefit to river men on the upper Ohio River, as they were enabled to move thousands of tons of coal that had been waiting shipment.

On the morning of the 30th, 9.37 inches of rain fell at Lumber City, Ga., and caused the Ocmulgee River at that place to rise 16.5 feet in 48 hours to a crest stage of 17.2 feet, 2.2 feet above the flood stage, on the 31st. Bridges were swept away, and other property, including crops, damaged to the extent of about \$20,000.

Hydrographs for typical points on several principal rivers are shown on chart 1. The stations selected for charting are Keokuk, St. Louis, Memphis, Vicksburg, and New Orleans, on the Mississippi; Cincinnati and Cairo on the Ohio; Nashville, on the Cumberland; Johnsonville, on the Tennessee; Kansas City, on the Missouri; Little Rock, on the Arkansas; and Shreveport, on the Red.