

mantle considerably and resulted in a small increase to stream flow.

*East Gulf of Mexico drainage.*—Several rises occurred in the Pearl River during the month but flood stage was exceeded only once when the stage at Jackson, Miss., reached 18.1 feet on February 8.

*Upper Mississippi Basin.*—Stages in the Rock River were slightly above flood stage at Moline, Ill., from February 15 to 17.

*Red River Basin.*—Minor floods occurred in the Sulphur River during the first week of the month and again in the last week. The crest stages in the first rise were 24.5 feet at Ringo Crossing, Tex., on the 3d and 24.9 feet at Naples, Tex., on the 7th. In the second rise the crest at Ringo Crossing was 22.5 feet on the 27th, but the crest had not reached Naples at the close of the month. The total losses have been estimated at about \$3,200.

*West Gulf of Mexico drainage.*—The streams in eastern Texas remained at moderately high stages during the month as the result of abundant rainfall. Minor flooding occurred in the Trinity and Guadalupe Rivers, but resulted in no damage of consequence.

*Colorado River Basin.*—The Salt River, which has been dry for several years, rose to a stage of 4.5 feet on February 22 and 5.2 feet on March 3 at Phoenix, Ariz. Advisory warnings were issued for these rises as it was necessary for several families who were living in the river bottoms to evacuate.

*Pacific Slope drainage.*—Heavy rains in California resulted in high stages and some overflowing of lowlands in the Central Valley of California. Accumulating run-off into the Tulare Lake Basin broke the levees of one reclaimed district and about 5,000 acres was flooded.

In the Sacramento River proper moderate flooding took place on February 11–13 and another flood began on the 28th. Like the two preceding months frequent rains during February intensified the flood situation. On February 10 a general rainstorm with exceptionally heavy rainfall amounts fell at intermediate elevations over all tributaries of the Sacramento River. The run-off was excessive from all of the lateral streams in Tehama, Glenn, and Butte Counties, while the flow above Redding was proportionately light. The peak stages in the American and the extreme upper Sacramento River approximated those of December 1940, while in the Feather-Yuba and in the Sacramento from Red Bluff to Knights Landing, the flow was considerably greater than had previously occurred this season.

Flood or danger stages were exceeded by 1 to 2 feet at points from Red Bluff to Knights Landing. At the latter point the 32.2-foot crest has been exceeded only twice in the history of the station. The water in the Yolo Bypass was unusually high but little additional damage resulted there because the island tracts have remained flooded since December 1940.

Toward the latter part of the month the lower San Joaquin began to rise moderately, and water flowing through unrepai red levee breaks of last year flooded limited areas of lowlands on the east side of the river north of the junction with the Stanislaus River.

The total losses from high water in the Sacramento Valley during February have been estimated at \$463,000.

A moderate flood occurred in the Eel River from the 10th to 11th with a crest stage of 19.25 feet at Fernbridge, Calif., on February 11. The greatest losses inflicted were those sustained by railroads and highways. A partial list of these damages indicated a loss of \$50,000.

FLOOD-STAGE REPORT FOR FEBRUARY 1941

[All dates in February]

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
<b>EAST GULF OF MEXICO DRAINAGE</b>					
Pearl: Jackson, Miss.....	18	7	8	18.1	8
<b>MISSISSIPPI SYSTEM</b>					
<i>Upper Mississippi Basin</i>					
Rock: Moline, Ill.....	10	15	17	10.3	16
<i>Red Basin</i>					
Sulphur:					
Ringo Crossing, Tex.....	20	2	5	24.5	3
Naples, Tex.....	22	25	(1) 11	22.5	27
		5		24.9	7
<b>WEST GULF OF MEXICO DRAINAGE</b>					
<i>Trinity:</i>					
Dallas, Tex.....	28	2	4	31.3	3
		24	25	31.6	25
		28	28	28.05	28
		5	8	29.5	7
Trinidad, Tex.....	28	25	(1)		
Long Lake, Tex.....	40	9	9	40.1	9
Liberty, Tex.....	24	27	(1)		
<i>Guadalupe:</i>					
Gonzales, Tex.....	20	3	3	22.9	3
Victoria, Tex.....	21	4	6	23.6	6
<b>PACIFIC SLOPE DRAINAGE</b>					
<i>Sacramento Basin</i>					
<i>Sacramento:</i>					
Red Bluff, Calif.....	23	10	11	24.7	10
		28	(1)		
Hamilton City, Calif.....	20	11	11	20.65	11
Knights Landing, Calif.....	30	11	17	32.2	13
<i>Eel Basin</i>					
Eel: Fernbridge, Calif.....	17.5	11	11	19.25	11

<sup>1</sup> Continued into following month.

TABLE OF FLOOD LOSSES AND SAVINGS, FEBRUARY 1941

River and drainage	Tangible property	Matured crops	Prospective crops	Live-stock and other movable farm property	Suspension of business	Total loss	Total savings
<b>MISSISSIPPI SYSTEM</b>							
<i>Red Basin</i>							
Sulphur.....	\$100			\$75	\$3,000	\$3,175	\$350
Guadalupe River.....							800
<b>PACIFIC SLOPE</b>							
Sacramento River.....	121,500	10,000	280,000	1,000	50,500	463,000	100,000
Eel River.....	50,000						2,500

<sup>1</sup> Incomplete.