days over the entire Tombigbee River Basin, averaging 4.30 inches north of Demopolis, Ala., and 2.30 inches south of Demopolis. The heaviest rainfall reported was at Macon, Miss., where a total of 7.20 inches was recorded. The upper Tombigbee crested at Aberdeen, Miss., 4 feet above flood stage on Feb. 23 and receded to below flood stage by March 3 when additional rainfall that averaged 3 inches over the upper basin on March 3–4 started the upper Tombigbee to rising again. The lower Tombigbee was at a fairly high stage that resulted from rains early in February and the additional rain that began falling near the middle of the month swelled the stream quickly past flood stage and maintained high stages well into March. Considerable damage resulted from this overflow but damage reports have not yet been collected.

Light to moderate flooding was also in progress along the Pearl River in Mississippi that began about the middle of February and continued into March.

Upper Mississippi and Missouri Basin.—Flood stage was reached on the Des Moines River at Eddyville, Iowa, on Feb. 15 and again on the 18th through the 21st. These stages resulted from an ice gorge that formed below Eddyville and caused backwater. There was no damage as the overflow covered only low farm land. Ice action also caused light local flooding at Augusta, Iowa, on the Skunk River from Feb. 16–19. There was also some light overflow at a few points along the Meramec, Gasconade, and Missouri Rivers.

Ohio Basin.—Light overflow occurred near the end of February in many of the Ohio River tributaries particularly in Pennsylvania, West Virginia, Ohio, and Kentucky and moderate flood stages were reached in the Cumberland River Basin from Feb. 19 through March 24. Damage in the Cumberland Basin amounted to about $23,750.

A general rise began in the Ohio River about the middle of February and the river exceeded flood stage at most points by the end of the month. The rise continued into March and developed into the severest flood in the Ohio River since the record flood of 1937. This flood will be covered more fully in a later issue of the REVIEW.

White and Arkansas Basins.—Heavy rains on Feb. 20–21 and again on Feb. 25–27 produced sharp rises in the streams of Arkansas. Rainfall was particularly heavy in west-central Arkansas on the 20th and 21st, with some stations measuring from 3 to more than 4 inches in 24 hours. As indicated by the table at the end of this report, there were at least 2 rises on all the rivers, except on the lower White River where the rise was steady and continued into March. Statistics on flood loss have not yet been compiled.

Red Basin.—Flood stages were exceeded at a number of stations on the tributaries of the Red River and on the main stream at Fulton, Ark., during the last week of February and continued into March.

Lower Mississippi Basin.—The Wolf River at Rossville, Tenn.; Big Lake Outlet at Manila, Ark.; the Tallahatchie River at Swan Lake, Miss.; and the Mississippi River at New Madrid, Mo., reached flood stage during the last few days of February and these rises also continued into March.

West Gulf of Mexico Drainage.—Heavy rains occurred over northeastern Texas during the latter part of February and a major flood prevailed in the streams of this area at the end of the month. Since the flooding extended into March, it will be described more fully in a later report.

Gulf of California Drainage.—A storm during early February produced heavy rainfall over central and northern California. The Fresno and Merced Rivers, Poso Creek, and other small streams overflowed in places, causing minor damage. Kings River overflowed lowlands in the vicinity of Centerville and Sanger with minor damage being caused. As the flood passed downstream it was divided at the diversion dam in the vicinity of Riverdale between Kings River and a channel leading to the San Joaquin River. The flow in the lower Kings River channel was still too great and levees broke in several places, flooding considerable areas of farm lands, some of which remained under water throughout the month.

The most serious damage was caused by the Kaweah River at Visalia and vicinity. The St. Johns River, one of the channels carrying the water of the Kaweah as it reaches the lower levels, overflowed during the night of February 1st, flooding a large portion of Visalia and spreading out over low farms lands in the vicinity.

Light flooding also resulted in the Mokelumne River at Bensons Ferry, Calif., and the Sacramento River at Knights Landing, Calif.

Rains were exceptionally heavy over the Consumnes River foothills. It was reported that Carsen Creek, a tributary to the Consumnes River, was out of its banks and reached the highest stage in the past 30 years.

Columbia Basin.—February was unusually warm and precipitation was above normal in western Oregon. Two periods of heavy warm rains occurred on Feb. 6–7 and 10–12 that melted much of the snow on the ground and produced moderately high crests on the Willamette River tributaries. Some flooding of lowlands occurred, but little damage other than erosion was reported.

FLOOD-STAGE REPORT FOR FEBRUARY 1945

[All dates in February unless otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest[1]	
		From—	To—	Stage	Date
ST. LAWRENCE DRAINAGE					
Lake Erie					
Sandusky: Upper Sandusky, Ohio	Feet 13	23	23	Feet 13.0	23
ATLANTIC SLOPE DRAINAGE					
Tioughnioga: Whitney Point, N. Y.	12	27	28	13.2	28
Chenango: Greene, N. Y.	8	27	28	8.8	28
West Branch: Renovo, Pa	16	23	23	18.8	23
Susquehanna:					
Oneonta, N. Y.	12	27	28	12.5	28
Bainbridge, N. Y.	12	27	28	13.7	28
Vestal, N. Y.	14	27	28	14.5	28
James: Columbia, Va	10	25	25	10.6	25
Roanoke:					
Weldon, N. C	31	15	15	32.0	15
		24	25	31.7	24
Williamston, N. C	10	18	Mar. 8	11.3	Mar. 1-2
Tar: Greenville, N. C	13	25	[2]		
Neuse:					
Neuse, N. C	14	15	16	14.2	16
		19	21	15.1	20
		23	25	15.7	24
Smithfield, N. C	13	15	27	16.5	25
Goldsboro, N. C	14	23	Mar. 4	16.6	Mar. 2
Cape Fear: Lock No. 2, Elizabethtown, N. C.	20	15	17	23.2	16
		19	28	24.6	20
				26.1	25
PeeDee: Cheraw, S. C	30	24	24	31.6	24
Broad: Blairs, S. C	14	14	14	15.3	14
Santee: Rimini, S. C	12	8	10	12.8	8
		15	[3]	15.0	18
Ocmulgee: Abbeville, Ga	11	27	Mar. 4	11.5	Mar. 2
Altamaha: Charlotte, Ga	12	27	Mar. 8	13.7	Mar. 5
EAST GULF OF MEXICO DRAINAGE					
Apalachicola: Blountstown, Fla	15	20	Mar. 9	19.4	26
Coosa: Gadsden, Ala	20	15	15	20.0	15
Cahaba: Centerville, Ala	23	21	21	23.5	21
Alabama: Millers Ferry, Ala	40	23	27	43.9	25
Black Warrior:					
Lock No. 10, Tuscaloosa, Ala	46	13	16	56.2	14
Lock No. 7, Eutaw, Ala	35	14	Mar. 2	46.6	25

See footnotes at end of table.

FLOOD-STAGE REPORT FOR FEBRUARY 1945—Continued

River and station	Flood stage	Above flood stages—dates From—	To—	Crest Stage	Date
EAST GULF OF MEXICO DRAINAGE—CON.					
Tombigbee:	*Feet*			*Feet*	
Aberdeen, Miss.	34	22	26	38.0	23
Columbus, Miss.	29	23	27	31.2	24
Gainesville, Ala.	36	18	(2)	46.8	Mar. 1
Lock No. 4, Demopolis, Ala.	39	14	(2)		
Lock No. 3.	33	7	10	36.0	8
		14	(2)		
Lock No. 2.	46	16	(2)		
Lock No. 1.	31	17	(2)	38.9	Mar. 6
Sowashee Creek: Meridian, Miss.	15	13	13	15.9	13
Chickasawhay: Enterprise, Miss.	20	22	23	20.3	23
Pearl:					
Edinburg, Miss.	20	17	(2)	25.3	24
Jackson, Miss.	18	8	(2)	32.6	28
Monticello, Miss.	15	6	8	16.5	7
		13	18	16.8	15
		21	(2)	20.9	23, 26
Columbia, Miss.	17	23	(2)	19.6	27
Pearl River, La.	12	13	(2)		
MISSISSIPPI SYSTEM					
Upper Mississippi Basin					
Skunk: Augusta, Iowa.	15	16	19	[3] 18.8	16
Des Moines: Eddyville, Iowa.	15	15	16	[4] 17.7	15
		18	21	[4] 16.6	19
Meramec: Pacific, Mo.	11	24	24	11.2	24
Missouri Basin					
Gasconade: Jerome, Mo.	15	23	23	15.9	23
Missouri: Nebraska City, Nebr.	15	13	15	[3] 16.7	14
Ohio Basin					
Allegheny:					
Olean, N. Y.	10	23	23	10.2	23
		27	(2)	[4] 10.9	27
Lock No. 8, Mosgrove, Pa.	24	23	23	[4] 25.8	23
		27	27	[4] 24.7	27
Lock No. 5, Schenley, Pa.	24	23	23	[4] 25.2	23
		27	(2)	[4] 27.0	27
Lock No. 4, Natrona, Pa.	24	23	23	24.3	23
		27	28	25.4	27
Lock No. 3, Acmetonia, Pa.	25	27	28	25.7	27
West Fork: Clarksburg, W. Va.	5	27	28	7.2	27
Monongahela:					
Lock No. 7, Greensboro, Pa.	30	27	27	33.7	27
Lock No. 6.	19.5	27	28	21.2	27
Lock No. 4, Charleroi, Pa.	30	27	28	31.3	27
Lock No. 2.	20.5	27	(2)	24.5	27
Little Kanawha:					
Glenville, W. Va.	23	27	27	23.9	27
Creston, W. Va.	20	27	(2)	22.4	27
Hocking: Athens, Ohio.	17	27	(2)		
Scioto:					
La Rue, Ohio.	11	23	23	11.9	23
Circleville, Ohio.	14	27	(2)		
Piketon, Ohio.	16	22	24	18.5	23
		27	(2)	22.2	28
Little Miami: Kings Mills, Ohio.	17	22	22	17.4	22
		27	27	20.1	27
Licking: Falmouth, Ky.	28	27	(2)	29.4	27
Rough: Dundee, Ky.	25	23	(2)	25.8	24
Barren: Bowling Green, Ky.	28	23	25	31.8	24
Green:					
Munfordville, Ky.	28	23	25	29.7	24
Lock No. 6, Brownsville, Ky.	28	23	25	29.5	24
		26	(2)		
Lock No. 4, Woodbury, Ky.	33	22	(2)	40.2	25
Lock No. 2, Rumsey, Ky.	34	23	(2)		
Kentucky:					
Lock No. 5.	20	23	24	21.0	23
		27	(2)	23.2	27
Lock No. 9.	20	22	24	21.2	23–24
		27	(2)		
East Fork: Seymour, Ind.	14	27	27	14.4	27
White: Hazleton, Ind.	16	27	(2)		
Cumberland:					
Celina, Tenn.	28	19	27	37.7	25
Carthage, Tenn.	40	22	24	40.9	23
Nashville, Tenn.	40	22	Mar. 2	44.6	23
				43.5	28
Clarksville, Tenn.	46	22	Mar. 5	51.1	Mar. 1
Lock 21.	28	18	19	33.2	19
		22	24	41.0	23
Lock F, Eddyville, Ky.	50	22	Mar. 24	60.6	Mar. 4
Duck: Columbia, Tenn.	32	22	24	37.0	23
Tennessee: Florence, Ala.	18	18	24	19.5	18
				21.0	22
Ohio:					
Pittsburgh, Pa.	25	27	28	27.7	28
Dam No. 7, Midland, Pa.	30	28	28	36.2	28
Dam No. 12, Wheeling, W. Va.	36	28	28	37.2	28
Point Pleasant, W. Va.	40	28	(2)		
Cincinnati, Ohio.	52	28	(2)		
Dam No. 41, Louisville, Ky., upper gage.	28	28	(2)		

FLOOD-STAGE REPORT FOR FEBRUARY 1945—Continued

River and station	Flood stage	Above flood stages—dates From—	To—	Crest Stage	Date
MISSISSIPPI SYSTEM—continued					
Ohio Basin—Continued					
Ohio—Continued.	*Feet*			*Feet*	
Tell City, Ind.	38	24	(2)		
Evansville, Ind.	37	24	(2)		
Mt. Vernon, Ind.	35	25	(2)		
Shawneetown, Ill.	33	24	(2)		
Cairo, Ill.	40	23	(2)		
White Basin					
Current: Doniphan, Mo.	10	23	23	10.7	23
		26	(2)	15.1	27
Black:					
Poplar Bluff, Mo.	16	24	24	16.0	24
		27	(2)	19.7	28
Black Rock, Ark.	14	21	(2)	20.0	23
				25.3	28
Little Red: Heber Springs, Ark.	30	22	22	34.6	22
White:					
Cotter, Ark.	21	21	22	22.0	21
		26	27	22.8	26
Calico Rock, Ark.	19	22	24	27.3	22
		26	(2)	26.8	27
Batesville, Ark.	23	22	25	30.5	23
		26	(2)	31.3	27–28
Newport, Ark.	26	23	(2)		
Augusta, Ark.	32	25	(2)		
Georgetown, Ark.	21	24	(2)		
Des Arc, Ark.	24	26	(2)		
Clarendon, Ark.	26	27	(2)		
Arkansas Basin					
Poteau: Poteau, Okla.	21	18	20	22.5	19
		20		32.7	23
Petit Jean: Danville, Ark.	20	18	(2)	21.5	19
				27.0	22
				26.5	28
Red Basin					
Little Missouri: Boughton, Ark.	20	22	24	21.6	23
		28	(2)		
Saline: Benton, Ark.	20	21	22	24.6	21
		28	(2)		
Ouachita:					
Arkadelphia, Ark.	17	21	24	25.5	22
		27	(2)	25.4	28
Camden, Ark.	26	23	(2)	35.8	27
Little: Whitecliffs, Ark.	25	23	(2)	28.0	24
Sulphur:					
Hagansport, Tex.	38	13	13	38.7	13
		21	25	41.4	22
		26	(2)		
Naples, Tex.	22	21	(2)	29.7	25
Cypress: Jefferson, Tex.	18	26	(2)	20.6	27
Red: Fulton, Ark.	25	23	(2)		
Lower Mississippi Basin					
Wolf: Rossville, Tenn.	10	27	(2)		
Big Lake Outlet: Manila, Ark.	10	23	(2)		
Tallahatchie: Swan Lake, Miss.	26	27	(2)		
Mississippi: New Madrid, Mo.	34	27	(2)		
WEST GULF OF MEXICO DRAINAGE					
Sabine:					
Gladewater, Tex.	26	24	(2)		
Bon Wier, Tex.	17	Jan. 1	10	20.5	Jan. 10–11.
				20.0	Jan. 20
				19.5	7
Elm Fork: Carrollton, Tex.	6	20	25	12.6	22
		27	(2)	11.3	28
East Fork: Rockwall (nr.), Tex.	10	13	17	15.4	14
		20	26	20.7	22
		26	(2)	19.4	28
Trinity:					
Dallas, Tex.	28	21	(2)	40.6	23
Rosser (nr.), Tex.	26	15	17	26.8	17
		20	(2)	37.2	25
Trinidad, Tex.	28	20	(2)	42.0	28
Long Lake, Tex.	40	25	(2)	42.8	27
Liberty, Tex.	24	23	(2)	24.6	26
GULF OF CALIFORNIA DRAINAGE					
San Joaquin Basin					
Kings: Piedra, Calif.	10	1	3	16.6	2
Mokelumne: Bensons Ferry, Calif.	12	3	5	13.5	4
Sacramento Basin					
Sacramento: Knights Landing, Calif.	30	3	4	30.1	4
Columbia Basin					
McKenzie: Leaburg, Oreg.	12	8	8	14.0	8
		13	14	15.8	13
Santiam: Jefferson, Oreg.	13	8	9	17.25	8
		13	15	17.2	13
South Yamhill:					
Willamina, Oreg.	8	7	8	10.8	7
Whiteson, Oreg.	38	8	9	40.9	8
Tualatin: Dilley, Oreg.	12	8	8	12.6	8
Willamette: Harrisburg, Oreg.	12	9	10	13.6	8
		13	15	15.6	14

[1] Provisional. [2] Continued into March. [3] Ice gorge below gage. [4] Affected by ice.