

southeastward to the Lake region and Ohio Valley, locally in portions of the Atlantic and Gulf States and along the Pacific coast. There were wide deficiencies in most of the Rocky Mountain and Plateau regions and in the nearby-southern Great Plains.

The most notable fact in connection with the record of the state of the weather was the extent of fog over wide areas and its persistence during the middle period of the month. This condition was particularly observed over much of the Middle West from near the end of the first decade, continuing in some cases daily in that region

and extending over wide regions eastward and southeastward to the Atlantic coast until well after the middle of the month. In portions of these areas dense fog existed continuously for a week or more exceeding in some localities any previous record of such conditions in the weather history of the places. Much cloudy weather, with frequent, though mainly light precipitation, prevailed in many regions covering the eastern two-thirds of the country, particularly over the Lake regions and to the eastward and into the near-by areas.

SEVERE LOCAL STORMS, DECEMBER, 1929

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A more complete statement will appear in the Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks	Authority
New York (western)	7-8					Ice	Some damage to telephone and power lines; auto traffic made hazardous.	Official, U. S. Weather Bureau.
Fort Smith, Ark	17	2:45 p. m.				Tornado	Slight damage over path one-fourth mile long	Do.
Grannis, Ark	17	3:30 p. m.				do	Slight property damage	Do.
Ville Platte, La. (10 miles east of)	17	11 p. m.	100-150		\$8,000	do	Buildings and a cotton gin damaged	Do.
Illinois, Indiana, and Ohio (northern parts) of southern Michigan and western New York	17-19					Ice, snow, and wind	Public utilities badly crippled; trees broken; highways obstructed; numerous accidents. The storm was particularly severe in Buffalo and vicinity.	Do.
Tupelo, Miss	18	3 a. m.				Tornado	A garage wrecked	Do.
Georgia (central)	22					Snow and ice	Considerable damage to telephone and telegraph poles and wires, trees, and shrubbery.	Do.
Washington (western)	25			1		Wind	Wires, signs, poles, trees, small craft, and buildings damaged.	Do.

RIVERS AND FLOODS

By R. E. SPENCER

No floods of importance occurred in the rivers of the United States during December, 1929. Flood stages were reached or slightly exceeded in several districts, as indicated in the table following, but no damage of consequence occurred.

Flood stage and crest data

[All dates in December unless otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest	
		From	To	Stage	Date
ATLANTIC DRAINAGE					
Neuse: Smithfield, N. C.	14	4	4	14.0	4
Cape Fear: Elizabethtown, N. C.	22	5	6	24.0	5
Peedee:					
Mars Bluff, S. C.	17	(1)	1	17.0	Nov. 30- Dec. 1
Poston, S. C.	18	5	11	19.0	8
Santee:					
Rimini, S. C.	12	(1)	11	14.6	10
Ferguson, S. C.	12	(1)	22	12.8	21-22
Saluda: Chappells, S. C.	14	(1)	(2)	21.0	Oct. 7
		4	4	14.4	4
EAST GULF DRAINAGE					
Tombigbee: Lock No. 4, Demopolis, Ala.	39	(1)	4	63.7	Nov. 21-22
Pearl: Jackson, Miss.	20	(1)	1	25.8	Nov. 23-26
West Pearl: Pearl River, La.	13	(1)	12	16.3	Nov. 18
GREAT LAKES DRAINAGE					
Maumee: Fort Wayne, Ind.	15	18	20	16.5	18
St. Joseph: Montpelier, Ohio.	10	19		10.4	19

¹ Continued from last month.

² Continued at end of month.

Flood stage and crest data—Continued

River and station	Flood stage	Above flood stages—dates		Crest	
		From	To	Stage	Date
MISSISSIPPI DRAINAGE					
Walhonding: Walhonding, Ohio	8	18	19	9.3	19
Scioto:					
Larue, Ohio	11	14	14	12.3	14
Bellpoint, Ohio	9	21	21	9.3	21
Circleville, Ohio	10	15	15	10.3	15
Chillicothe, Ohio	16	19	20	12.9	19
Wabash:					
Lafayette, Ind.	13	19	21	16.5	19
Covington, Ind.	16	17	22	19.7	20-21
Terre Haute, Ind.	16	18	23	16.8	20-21
Vincennes, Ind.	14	25	26	14.3	26
Mount Carmel, Ill.	16	20	29	19.5	27
White: Decker, Ind.	18	24	26	18.5	26
White, East Fork: Seymour, Ind.	10	19	20	11.0	20
White, West Fork:					
Elliston, Ind.	19	18	22	22.3	20
Edwardsport, Ind.	15	18	24	18.3	23
Illinois: Peru, Ill.	14	3	6	14.7	5
		22	22	14.2	22
		26	28	14.6	27
St. Francis:					
Fisk, Mo.	20	19	21	22.0	20
St. Francis, Ark.	18	24	25	18.3	25
Black: Corning, Ark.	11	18	27	12.5	22
Sulphur: Ringo Crossing, Tex.	20	17	17	22.0	17
PACIFIC DRAINAGE					
Willamette:					
Eugene, Oreg.	12	19	19	14.0	19
Harrisburg, Oreg.	10	19	20	14.4	19
Albany, Oreg.	20	21	21	20.9	21
Willamette, Coast Fork: Saginaw, Oreg.	9	18	19	10.0	18
Santiam: Jefferson, Oreg.	10	15	15	11.0	15
		19	19	13.8	19