

# MONTHLY WEATHER REVIEW.

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## FORECAST DIVISION.

Prof. E. B. GARRIOTT, in charge.

### RIVERS AND FLOODS.

Two new river forecast districts were created during the year, thereby increasing the total number of districts to 50. On May 1 the district of Phoenix, Ariz., was created, with territory comprising the watershed of the Gila River, formerly a portion of the Denver, Colo., district; and on September 1 the district of Binghamton, N. Y., was created by detaching that portion of the district of Harrisburg, Pa., at and above Binghamton. Several new stations were opened in each of the new districts. A detailed statement of changes during the year follows:

#### RIVER STATIONS ESTABLISHED.

Station.	District.
Bainbridge, N. Y.	Binghamton, N. Y.
*Boonford, N. C.	Knoxville, Tenn.
*Chillicothe, Ohio	Columbus, Ohio.
*Cortland, N. Y.	Binghamton, N. Y.
*Coshocton, Ohio	Columbus, Ohio.
Elgin, Utah	Denver, Colo.
Ferguson, S. C.	Columbia, S. C.
*Fort Wayne, Ind.	Columbus, Ohio.
Fruita, Colo.	Denver, Colo.
Grand Canyon, Ariz.	Denver, Colo.
*Maricopa, Phoenix, and Salt River Valley railroad bridge over Salt River, Ariz.	Phoenix, Ariz.
†Marble Falls, Tex.	Galveston, Tex.
*New Berlin, N. Y.	Binghamton, N. Y.
New Castle, Colo.	Denver, Colo.
*Oneonta, N. Y.	Binghamton, N. Y.
*Rogers, Ind.	Calto, Ill.
†Runnig Water, S. Dak.	Sioux City, Iowa.
Sherburne, N. Y.	Binghamton, N. Y.
*Tempe, Ariz.	Phoenix, Ariz.
Thurman, N. Y.	Albany, N. Y.
Topock (P. O. Mellen), Ariz.	Denver, Colo.
Vancouver, Wash.	Portland, Ore.

At the following stations where occasional observations only were taken heretofore, regular daily observations will be taken for at least a portion of each year:

Station.	District.
Harrisburg, Ore.	Portland, Ore.
Jefferson, Ore.	Portland, Ore.
McMinnville, Ore.	Portland, Ore.
Merrill, Iowa	Sioux City, Iowa.
Pasco, Wash. (Columbia River)	Portland, Ore.
Williamson, W. Va.	Cincinnati, Ohio.

The rainfall station at Pikeville, Ky., Cincinnati, Ohio, district, was discontinued, and a river station established at the same place.

#### RIVER STATIONS DISCONTINUED.

Station.	District.
Edisto, S. C.	Columbia, S. C.
Jackson, Ky.	Louisville, Ky.
*Redding, Cal.	Sacramento, Cal.
†Riparia, Wash.	Portland, Ore.
St. Stephens, S. C.	Columbia, S. C.
Schaghticoke, N. Y.	Albany, N. Y.
*Sherwood, Ohio	Columbus, Ohio.
*Waldo, N. Mex.	Denver, Colo.
Warrensburg, N. Y.	Albany, N. Y.

#### RAINFALL STATIONS ESTABLISHED.

Station.	District.
*Bangorville, Ohio	Columbus, Ohio.
*Benson, Ariz.	Phoenix, Ariz.
*Cooperstown, N. Y.	Binghamton, N. Y.
*De Ruyter, N. Y.	Binghamton, N. Y.
*Jerome, Ariz.	Phoenix, Ariz.
*Montpelier, Ohio	Columbus, Ohio.
*Newcastle, Va.	Richmond, Va.
*Norwich, N. Y.	Binghamton, N. Y.
*Rockfish, Va.	Richmond, Va.
*San Carlos, Ariz.	Phoenix, Ariz.
*Seligman, Ariz.	Phoenix, Ariz.
Spartanburg, Ariz.	Columbia, S. C.
*Wooster, Ohio	Columbus, Ohio.

#### RAINFALL STATIONS DISCONTINUED.

Station.	District.
Burkeville, Ala.	Montgomery, Ala.
Enoree, S. C.	Columbia, S. C.
*Mansfield, Ohio	Columbus, Ohio.
*Maxwell City, N. Mex.	Denver, Colo.
*Olden, Mo.	Little Rock, Ark.

The highest and lowest stages, together with the annual ranges at 201 selected stations, are shown in Table V.—*H. C. Frankenfield, Professor of Meteorology.*

\* Occasional reports only. † Beginning January 1, 1908. ‡ To be reopened February 1, 1908.

## GENERAL CLIMATIC CONDITIONS.

By Mr. P. C. DAY, Assistant Chief, Division of Meteorological Records.

### PRESSURE.

The distribution of the mean sea-level pressure during 1907 over the United States and Canada is graphically shown on Chart VI, and the average values and departures from the normal are shown for each station in Tables I and IV.

The variations from the normal pressure distribution during the several months of the year were not sufficient to produce any marked departure from the normal annual distribution, and variations from the latter were not pronounced in any district.

The annual average pressure was slightly below normal over the eastern districts of Canada, New England, the lower

Lake region, and Middle Atlantic States, and also over the Pacific coast districts from central California northward. Over the remaining districts of the United States and Canada pressure averaged slightly higher than usual. The maximum departure, +.05 to +.07 inch, occurred over eastern Montana and the western portions of North Dakota and South Dakota.

Average pressure of 30.05 inches, or slightly higher, was maintained over the Ohio Valley, south Atlantic and east Gulf districts, and locally in the upper Missouri Valley and along the coast of northern California.

Over portions of New Mexico, Arizona, and southeastern California the annual pressure averaged about 29.90 inches.