

proximity of one crash, at Fort Duncan, Tex., fierce thunder-storm at Pittsburgh, and heavy at Spartanburg, S. C.; 26th, hurricane experienced by a vessel in the vicinity of Bermuda; 27th, high easterly winds during thunder-storm early in the morning at Cape Hatteras and New River, N. C. coast; 28th, heavy gale 150 miles off shore from San Francisco.

TEMPERATURE OF THE AIR.

The isothermal curves upon chart No. II illustrate the general distribution of the temperature of the air for the present month. From a reference to the table in the lower left-hand corner of the same chart, it will be seen that the average is below that for many years in the Gulf States, Upper Mississippi valley, and at the Pacific coast stations; about the same in Minnesota and the lower Missouri valley; above in the remaining districts, especially in the Lake region and St. Lawrence valley. Minimum and maximum temperatures, respectively, for the month are given for the following stations, viz: Albany, 46°, 93°; Alpena, 42°, 87°; Atlantic City, 55°, 87°; Augusta, 70°, 97°; Boston, 50°, 96°; Bismarck, 42°, 105°; Breckenridge, 37°, 101°; Buffalo, 46°, 87°; Cairo, 63°, 95°; Cape Hatteras, 62°, 85°; Cape May, 57°, 87°; Cheyenne, 34°, 92°; Chicago, 54°, 92°; Cincinnati, 59°, 91°; Cleveland, 46°, 86°; Corsicana, 68°, 101°; Davenport, 53°, 90°; Denver, 44°, 100°; Detroit, 46°, 87°; Dodge City, 52°, 101°; Duluth, 45°, 89°; Eastport, 46°, 83°; Fort Gibson, 64°, 95°; Fort Sully, 48°, 107°; Indianapolis, 48°, 89°; Indianola, 71°, 99°; Jacksonville, 70°, 98°; Key West, 75°, 91°; Leavenworth, 55°, 93°; Lynchburg, 58°, 94°; Malone, 37°, 92°; Marquette, 44°, 91°; Mobile, 71°, 95°; Mt. Washington, 20°, 72°; Nashville, 60°, 95°; New London, 52°, 87°; New Orleans, 73°, 92°; New York, 55°, 90°; North Platte, 42°, 97°; Omaha, 54°, 92°; Oswego, 52°, 90°; Pembina, 36°, 94°; Pittsburgh, 49°, 97°; Pike's Peak, 23°, 58°; Philadelphia, 56°, 91°; Portland, O., 51°, 91°; Salt Lake City, 46°, 95°; San Diego, 60°, 81°; San Francisco, 51°, 78°; Santa Fe, 45°, 89°; Shreveport, 69°, 96°; Vicksburg, 68°, 98°; Virginia City, 31°, 92°; Washington, 53°, 96°; Wilmington, 63°, 97°; Wood's Hole, 55°, 85°; Yankton, 46°, 93°; Yuma, 67°, 107°. The highest were recorded at Indianola on the 1st; Denver, 12th; Dodge City, 18th; Breckenridge and Bismarck, 8th; Fort Sully, 7th; Yuma, 6th; and the lowest at Mt. Washington, 21st; Pike's Peak, 23d; Breckenridge, 25th; Malone, 21st; Pembina, 26th; Cheyenne, 10th; and Virginia City, 9th. The maximum temperatures for Mt. Washington and Virginia City are the highest on record for those stations. During the first part of the month, at the 4:35 p. m. (Washington time) observations, the temperature frequently ranged from 100° to 114° at the stations in western Texas, along the Rio Grande river, while in Arizona the readings varied between 100° and 111°. At Ft. Duncan, Texas, 2 p. m., 2nd, the temperature reached 113°. It fell at Rockford, Iowa, from 83°, at 1 p. m., to 68°, at 2 p. m., on the 18th; at Leavenworth, from 90° to 63°, in half an hour, on 19th; at Memphis, from 92° to 79°, in fifteen minutes, on 22d; at Riley, Ill., decided fall from 24th to 25th, the mean of latter having been 18° lower than that of former; at Cresswell, Kan., fall of 40° on the 24th, and 41° on the 31st.

Ranges in Temperature.—At Key West, 16°; San Diego, 21°; San Francisco, 27°; Portland, Or., 41°; Gulf States, 19° to 33°; South Atlantic States, 23° to 34°; Indian Ter., 29° to 34°; Tennessee and the Ohio valley, 30° to 38°; Middle Atlantic coast, 30° to 43°; New England coast, 28° to 44°; interior of Middle States and New England, 42° to 55°; Lower Lake region, 35° to 44°; Upper Lake region, 38° to 47°; Upper Mississippi valley, 31° to 47°; Lower Missouri valley, 36° to 47°; Red River of the North valley, 58° to 64°; Santa Fe, 44°; Kansas and Colorado, 35° to 56°; Salt Lake City, 49°; Wyoming, Montana, and western portions of Nebraska, Minnesota and Dakota, 55° to 64° at Breckenridge.

Ice and Destructive Frosts have been reported as follows, viz: morning of the 10th at Coalville, Utah, frost injuring wheat and potato tops; 21st, near Fort Huron, Mich., frost damaging crops; 26th, at Pembina, frost injuring vegetation; 31st, at Coalville, frost and first skin of ice. July 8th, a severe frost occurred at Carson City, Nev., freezing vegetables.

PRECIPITATION.

Upon chart No. 3 is represented the distribution of the rain-fall and melted snow. The table in the lower left-hand corner of same gives the average precipitation, in the various districts, of the month for this and for many years. It will be observed that the regions in which the rain-fall has exceeded the average for years, viz., the Missouri valley, Upper Mississippi valley, Minnesota, Tennessee and the Ohio valley, generally correspond with those affected by the movements of the lower-pressure areas. The excess in the Western Gulf States, and the normal in the Eastern Gulf States, result from the heavy precipitations at Galveston and Mobile, while there was a deficiency at the majority of the stations, especially through the central portions. The large deficiencies in the Lower Lake region, Middle States, New England and St. Lawrence valley, are due to the fact that the low-pressure areas generally passed to the north of them, and only occasionally extended their influence southward, so as to produce rain in those sections. The following are some of the largest total rain-falls, viz: at Gadsden, 10.19 inches; Mobile, 11.53; Goldsboro, N. C., 11.61 (?); Boonsboro, Iowa, 12.44 (?); Guttenburg, Iowa, 10.04; Richmond, Neb., 8.12; Camp Verde, A. Ter., 12.08; Anna, Ill., 9.41; near Cincinnati, 10.25, and Snowville, Va., 9 inches. Stations where not any rain fell are: San José and Campo, Cal., Fort Porter, near Buffalo, Fort Niagara, (at Oswego,) Toronto,