

## TEMPERATURE OF THE AIR.

*In General.*—The general distribution of temperature is shown by the isotherms on Chart No. II, from which it will be seen that the isotherm of 75° passed from central Texas eastward through the northern portion of the Gulf of Mexico and over the central portion of the Florida peninsula. The isotherm of 45° skirts along the coast of the Gulf of St. Lawrence from Cape Breton to the Saguenay. Mean temperatures at special points have been: Mt. Washington, 32°; Pike's Peak, 18°; Portland, Or., 57°; Portland, Me., 56°; San Diego, 60°; Charleston, 69°; Brownsville, Texas, 81°; Pembina, 57°. A comparison with the mean temperatures at the same stations since 1870 shows temperatures above the average in Minnesota, the Lake region and New England, but below the average in the Lower Missouri and Ohio valleys, and the South and Middle Atlantic States.

*Maximum and Minimum Temperatures.*—Maximum temperatures above 91°: 92° at Baltimore, 18th; Fort Gibson, 23rd; Indianola—Memphis, 22nd; New Orleans, 23rd; Concho, 27th and 30th. 93° at Denison, 23rd; Pittsburgh, 19th; St. Marks, 23rd; Fort Whipple, 19th. 94° at Augusta, 22nd; Knoxville, 18th; Lynchburg, 19th; Mobile, 23rd; Savannah, —th. 95° at Corsicana, 21st; Montgomery, 22nd; Vicksburg, 23rd; San Antonio, 26th. 96° at Jacksonville, 23rd; Norfolk, —th; Washington, 18th; Uvalde, —th. Minimum temperatures below 34: 33° at Chicago, 2nd; Grand Haven, 1st and 2nd; Pittsburgh, 3rd; Toledo, —th. 32° at Albany, —th; Bismarck, 3rd; Buffalo, —th; Cleveland, 1st; Denver, 6th; Detroit, 2nd; Erie, —th; North Platte, 7th; Rochester, 3rd. 31° at Breckenridge, 4th; Burlington, 5th; Dubuque, 1st; Indianapolis, —th; La Crosse, 1st; Morgantown, 3rd; Yankton, 1st. 30° at Milwaukee, 2nd. 29° at Port Huron, 2nd; Santa Fe, 4th. 27° at Alpena, 2nd; Cheyenne, 6th; Duluth, —th; Pembina, 1st. 26° at Marquette, —th; Virginia City, 6th. 24° at Escanaba, 1st. 11° at Mt. Washington, 3rd. 1° at Pike's Peak, 6th.

It will be seen that a remarkable interval of high temperatures prevailed from the 17th to the 23rd over a great part of the country east of the Mississippi, during which time the area of high barometer No. II was receding southeastward over the Atlantic States, and low barometer No. XI was moving eastward towards and over the Lake region.

*Ranges of Temperature.*—The largest diurnal ranges are as follows: 37° at Breckenridge, 24th; Dodge City, 1st; Eastport, 29th; Santa Fe, 28th; 38° at Denver, 8th; Port Huron, 19th; 39° at North Platte, —; Boerne and Uvalde, 1st; 40° at Pembina, 24th. The largest monthly ranges have been: 56° at Alpena, Dubuque, Knoxville, Port Huron, Washington, Uvalde; 57° at Indianapolis; 59° at Morgantown; 60° at Pittsburgh; 64° at Marquette. The least monthly ranges have been: 33° at Cape Hatteras and Indianola; 34° at Cape Lookout and Pike's Peak; 35° at Capo May; 32° at Galveston; 27° at Key West and San Francisco.

*Frosts* have been reported as follows: 1st, Ind., (severe,) Ky., Ala., Ga., Ill., Iowa, Kan., Miss., (Inst.) Mo., Nebr., N. C., (severe,) Ohio, Tenn., Tex., Va., Wis. 2d, Ohio, Mich., Ind., (severe,) Tenn., Ky., Ga., Ill., Iowa, Mass., N. Y., N. C., (severe,) Penn., Tenn., Utah, Va., W. Va., Wis. 3d, Mich., Conn., Del., Ill., Ind., Iowa, Me., Md., Mass., N. J., N. Y., N. C., Ohio, Penn., Tenn., Va., W. Va., Wis. 4th, Ind., N. Mex., Mich., Ohio, Colo., Del., Ill., Mo., Nebr., N. J., N. Y., Penn., Vt., Wis. 5th, Conn., Mich., Del., Kan., Me., Md., Mass., N. H., N. J., N. Y., Penn., Vt. 6th, Me., N. H., N. Y., Penn., Utah. 7th, Neb., Dak., Conn., Iowa, Kan., (severe,) Md., Mass., Mich., N. H., N. Y., Penn. 8th, Me., Ill., Iowa, Kan., N. H., N. Y. 9th, Ill., Ind., Iowa, Mich., N. Y., N. C., Ohio, Tenn., Wis. 10th, Ohio, Ill., Ind., Iowa, Me., Md., Mich., N. C., (killing,) Penn., S. C., Tenn., Utah, Va., Wis. 11th, Me., Ohio, Del., Ind., Mich., N. C., Penn., Vt., Va., W. Va., Wis. 12th, Del., Ind., Me., N. J., Ohio, Penn., Vt., Wis. 13th, Mich., Ohio, Penn., Vt. 14th, Wyo., Me., N. Y., Ohio. 18th, N. Mex. 20th, N. Mex. 21st, Me., Ill. 22d, Ill. 23d, Mich., Ill., Utah, (severe,) Vt., Wis. 24th, Ill., Ind., Iowa, Mich., N. Y., N. C., Ohio, Penn., Va., Wis. 25th, Ind., Ill., Iowa, Md., (heavy,) N. J., N. Y., Ohio, Va., Wis. 26th, Mich., Ill., Ind., N. C., Ohio, Va. 27th, Ill., N. Y. 28th, N. Y., Vt. 29th, N. Y., N. C. 30th, N. C. 31st, N. Mex.

*Ice.*—The formation of ice, rather than frosts: 1st, N. C.; 2nd, N. C.; 3rd, Conn., W. Va., Mass.; 10th, N. C.; 25th, Va.

## PRECIPITATION.

*In General.*—The general distribution of rain and melted snow for May, is shown on chart No. III, from which it will be seen that the region of largest rain-fall extends from central Texas northward to Manitoba, with small areas of large rain-fall in southern Florida and the coast of the Canadian Provinces. This distribution of rain-fall for May appears to be quite anomalous, nothing similar having occurred during the last six years, the nearest approach to it being May, 1874, when narrow belts of heavy precipitation extended from Indian Territory to Lake Huron and also along the Atlantic coast; as a consequence the rain-fall west of the Mississippi is largely in excess of the normal values; on the other hand a large deficiency is reported from the Gulf and Atlantic States, the Ohio and St. Lawrence valleys and the Lake region. A