

and Crawford counties, Wis., land badly washed and some crops lodged beyond recovery; in Kosciusko and Allen counties, northern Indiana, streams high, country flooded; in Auglaise valley, Ohio, destructive floods. 15th, Illinois Central railroad, two bridges carried away in northern Illinois. Neillsville, Wis., 20th, the recent rains made a 6 foot rise in Black river, logs running good. 21st, New Orleans, streets flooded 3 to 4 feet deep. 22nd, Silver Lake, Dak., forty miles north of Yankton, cloudburst, submerging country and drowning seven persons; west branch of Vermillion river spread out to a width of over one mile, and 10 to 30 feet deep. 28th, Missisquoi and other streams near Richford, Vt., much swollen; southwestern railroad track badly washed; trains delayed.

Drought.—Gainesville, Ga., severe drought from 6th to 27th; no rain; crops half destroyed. Somerset, Mass., very severe and injurious. Frankford, Mo., no rain of any amount has fallen within eighteen miles of this station; vegetation seriously injured by drought; early corn entirely cut short, later crops much damaged and some completely ruined. Greenville, N. C., month very dry; no rain from the 4th to 28th. Near Cleaveland, Tenn., vegetation suffering severely for want of rain; 21st, severe drought, everything drying up; 26th, very dry, vegetation parched; 27th, hottest and driest weather ever seen in the state. Wytheville, Va., 13th, drought fairly commenced; corn in fields curling and suffering; garden vegetables suffering still more; flowers entirely destroyed in large numbers where watering was impossible; no rain from 1st to 17th. Crops on Long Island suffering from drought, 7th. Dorchester Co., Md., rain much needed, pastures failing, corn suffering, 19th.

Hail.—Ft. Wallace, Kan., 28th; Camp Sheridan, Neb., 7th; Ft. Sanders, Wy. Ter., 6th, 10th; Summit, Col., 5th, 11th, 13th, 16th, 21st, 25th, 27th; Byron, Ia., 31st; Vail, Ia., 10th; Independence, Ia., 31st; Tabor, Ia., 25th, 28th, 30th, 31st; Sandy Springs, Md., 31st; Amherst, Mass., 21st; Fall River, Mass., 21st; De Soto, Neb., 31st; Clear Creek, Neb., 10th; Near Genoa, Neb., 8th; Scarsdale, N. Y., 21st; Starkey, N. Y., 10th; South Hartford, N. Y., 16th, 21st, 26th; Near Chambersburg, Pa., 12th; Catawissa, Pa., 18th, 21st; Kit Carson, Col., 9th; Salt Lake City, Utah, 15th; Winnemucca, Nev., 23rd; Denver, Col., 28th; Cheyenne, Wy. Ty., 27th; Detroit, Mich., 31st; Charleston, S. C., 14th; Washington, D. C., 19th.

Rainy Days.—The number of days on which rain has fallen varies as follows: New England, 7 to 15; Middle States, 7 to 15; South Atlantic States, 8 to 15; Gulf States, 7 to 18; Ohio valley and Tennessee, 9 to 16; Lower Lake region, 9 to 18; Upper Lake region, 9 to 15; Upper Mississippi valley, 6 to 16; Lower Missouri valley, 6 to 14; Eastern slope, 5 to 16; Rocky Mountain stations, 7 to 18; Western plateau, 1 to 4; Pacific coast, 0 to 6.

Cloudy Days.—New England, 5 to 14; Middle States, 3 to 11; South Atlantic States, 3 to 9; Gulf States, 1 to 10; Ohio valley and Tennessee, 5 to 12; Lower Lake region, 5 to 11; Upper Lake region, 5 to 11; Upper Mississippi valley, 3 to 10; Lower Missouri valley, 7 to 10; Eastern slope, 3 to 7; Rocky Mountain stations, 0 to 5; Western plateau, 1 to 4; Pacific coast, 0 to 11.

Snow.—Summit, Col., 27th, snow fell thickly at the station, covering all the surrounding summits.

RELATIVE HUMIDITY.

The average percentage of relative humidity for the month ranges as follows: New England, 62 to 83; Middle States, 62 to 84; South Atlantic States, 67 to 83; Gulf States, 65 to 81; Ohio valley and Tennessee, 63 to 72; Lower Lakes, 68 to 74; Upper Lakes, 66 to 77; Upper Mississippi valley, 63 to 75; Lower Missouri valley, 63 to 71; Eastern slope, 59 to 75; Western plateau, 13 to 34; Pacific coast, 32 to 78. High stations report as follows: Mt. Washington, 97.6; Virginia City, 36.9; Cheyenne, 52.1; Denver, 46.2; Colorado Springs, 54; Santa Fe, 40.4.

WINDS.

The prevailing winds at the Signal Service stations are shown by the arrows, flying with the wind, on chart No. II. The *maximum* velocities, in miles per hour, have been given in the description of the movements of areas of low pressure. On Mt. Washington the highest velocity, NW. 100 miles, was recorded on the 27th.

Total Movements of the Air.—The following are the *largest* monthly movements recorded at the Signal Service stations, viz.: Mt. Washington, 17,600 miles; Cape Lookout, 12,940; North Platte, 10,569; Cape Hatteras, 10,296; Portsmouth, N. C., 10,226; Dodge City, 9,285; San Francisco, 9,183; Stockton, Tex., 8,862; Cape May, 8,692. The *smallest* are: Montgomery, 1,614 miles; Knoxville, 1,803; San Antonio, 2,092; Lynchburg, 2,180; Shreveport, 2,260; Visalia, 2,277; Nashville, 2,462; Dubuque, 2,626; Graham, Tex., 2,693; Roseburg, Or., 2,716; Vicksburg, 2,708. Lieut.-Commander Chas. H. Craven, U. S. Navy, observer at U. S. Navy Yard, Mare Island, Cal., remarks: "I think it worthy of special remark the following record of the average force of the winds of this first half of June. * * * Average wind per hour is 17.42 miles. According to the oldest inhabitants it has been unprecedented. From 4:36 a. m., 11th to 12th, an average of 26.4 miles per hour. At 5 p. m., 6th, SW. 62 miles; at 5:30 p. m., 11th, SSW. 56 miles; at 9 p. m., 14th, WSW. 45 miles;" "also total movement of the wind for July, 13,548 miles."

Local Storms.—Rowe, Mass., 4th, heavy rain, doing considerable damage. Camp Sheridan, Neb., 7th, 4.07 to 4.16 p. m., severe thunder-storm from the east, with hail stones covering the ground like snow, largest