

WIND.

PREVAILING WINDS.

The prevailing winds for August, 1894, viz, those that were recorded most frequently at Weather Bureau stations, are shown in Tables I and VIII; they are not given on Chart II, as has hitherto been the custom, but the resultant winds are published instead.

RESULTANT WINDS.

The resultant winds for the current month, as deduced from the hourly records by self-registers at about 67 regular Weather Bureau stations, are given in Table VIII. Other resultants, deduced from the personal observations made at 8 a. m. and 8 p. m., are given in Table IX. These latter resultants are also shown graphically on Chart II, in connection with the isobars based on the same system of simultaneous observation; the small figure attached to each arrow shows the number of hours that this resultant prevailed, on the assumption that each of the morning and evening observations represents one hour's duration of a wind of average velocity; these figures (or the ratio between them and the total number of observations in this month) indicate the extent to which winds from different directions counterbalanced each other. The original north, south, east, and west components are given in detail in Table IX.

During August the resultant movement was generally from the southwest in New England and westerly on the Pacific coast; from the southeast in the Missouri Valley, and northerly in the Ohio Valley and Tennessee.

HIGH WINDS.

Wind velocities of 50 miles, or more, per hour were reported at regular stations of the Weather Bureau as follows (maximum velocities are averages for five minutes; extreme velocities are gusts of shorter duration):

Stations.	Date.	Velocity.	Direction.	Stations.	Date.	Velocity.	Direction.
Huron, S. Dak.....	5	Miles. 52	s.	Pikes Peak, Colo.....	23	Miles. 50	ne.
Pensacola, Fla.....	7	52	se.	Tatoosh Island, Wash..	23	53	e.

LOCAL STORMS.

Destructive or severe local storms were reported as follows:

- 1st.—Carlisle, Pa., thunderstorm. Alpena, Mich., windstorm. Near Albuquerque, N. Mex., 1 person killed by lightning.
- 2d.—Friendship, N. Y., and Harrisburg, Pa., thunderstorms. Grafton, W. Va., rainstorm. Newton, Ala., windstorm. Pueblo, Colo, thunderstorm.
- 3d.—Kingston, R. I., and Montville, Conn., thunderstorms. New London, Conn., and Abilene, Tex., rainstorms.
- 7th.—Pensacola, Fla., windstorm. Billings, Mont., hailstorm.
- 9th.—South Canisteo, N. Y., thunderstorm. Near Dyberry, Pa., 1 person killed. Purcellville, Va., 1 person killed by lightning. Person County, N. C., a boy killed by lightning.
- 10th.—New Bedford, Mass., Staunton, Va., Olney, Ill., and Warrentown, Mo., thunderstorms.

11th.—Knoxville, Tenn., thunderstorm. Cincinnati, Ohio, rainstorm. Martinsville, Olney, and Ursa, Ill., thunderstorms.

12th.—Society Hill, S. C., horse killed by lightning. Little Mountain, S. C., thunderstorm. North Madison, Ohio, windstorm. Kimball, S. Dak., thunderstorm. Sulphur Hot Springs, N. Mex., hailstorm.

13th.—Norfolk, Va., 1 person killed by lightning. New England City, Va., hailstorm. Columbia and Unionville, Mo., Rockwell City, Iowa, and Mingusville, Mont., thunderstorms.

14th.—Near Blandville, Ky., hailstorm. Springfield, Ill., thunderstorm. Martinsville and Rochester, Ill., stock killed by lightning.

15th.—Plymouth, N. H., near Salem and near Tenafly, N. J., and Keysville, Va., thunderstorms. Near Bailey, N. C., hailstorm. New England City, S. C., and Palo Alto, Miss., thunderstorms. Egypt, Miss., and Greendale, Ky., windstorms. Wild Rice, N. Dak., thunderstorm.

16th.—Yorkville, S. C., thunderstorm. Columbus, Tex., 1 person killed by lightning.

17th.—Steffenville, Mo., stock killed by lightning.

18th.—Near Pinopolis, S. C., stock killed by lightning.

19th.—Mount Morris, N. Y., rainstorm. Near Factoryville, N. Y., Parkersburg, W. Va., and Springdale and Trenton, Tenn., thunderstorms. Henderson County, Ky., hailstorm. McConnellsville, Ohio, and Beardsley, Minn., thunderstorms. Near Halls Peak, N. Mex., rainstorm.

20th.—Eastport, Me., thunderstorm. Boston, Mass., rainstorm. Sandy Hook, Conn., man killed by lightning. Waukesha, Wis., thunderstorm. Forest City, S. Dak., 2 horses killed by lightning.

21st.—Jacksonville, Fla., and St. Vincent, Minn., thunderstorms.

22d.—Pensacola, Fla., 1 person killed by lightning. Aurora, Tex., 2 persons and 2 horses killed by lightning. Campbell, Minn., thunderstorm. Clear Lake, Minn., 3 horses killed by lightning.

24th.—Egypt, Miss., windstorm.

25th.—St. Johnsbury, Vt., thunderstorm. Massena, N. Y., horse killed by lightning. Mansfield, La., windstorm. Duarte, Cal., thunderstorm. Los Angeles, Cal., 2 persons stunned by lightning.

26th.—Cornish, Me., and Easton, Md., thunderstorms. Parkersburg, W. Va., 1 person killed by lightning. Atlantic City, N. J., 1 person killed and 2 injured by lightning. Jacksonville, Fla., thunderstorm. Florence Station, Tenn., 2 horses killed by lightning. Marlin, Tex., stock killed by lightning. Olney, Ill., and Edmanton, Cal., thunderstorms.

27th.—Port Royal, S. C., windstorm, 3 persons drowned. Yerington, Nev., thunderstorm.

28th.—Orlando, Fla., thunderstorm.

29th.—Hess Road Station, N. Y., 3 horses killed by lightning. Amelia, Fla., thunderstorm.

31st.—Salt Lake City, Utah, thunderstorm. Crook, Oreg., horse killed by lightning.

Mr. Baturoni reports from Vera Cruz that a severe thunderstorm occurred on August 18, between 4 and 5.30 a. m. Nine lightning strokes occurred in eleven minutes, but fortunately all fell outside of the city.

ATMOSPHERIC ELECTRICITY.

GENERAL STATISTICS.

The table showing in detail for August, 1894, the statistics relative to auroras and thunderstorms is placed among the

meteorological tables as No. XI, instead of being given in the text as heretofore. It shows the number of stations from which meteorological reports were received, and the number