NAVIGATION.

Height of Rivers.—Upon chart No. III is a table giving the highest and lowest water-marks, with the dates upon which they occurred. The highest water at Nashville on the 25th was 3 feet 11 in., the figures in the table being in error. At Pittsburgh, navigation in general suspended on account of low water, 21st; 31st, a few boats left, but the slight rise was not sufficient for a resumption of navigation.

TEMPERATURE OF WATER.

As heretofore, the maximum and minimum temperatures alone, with the average depth of the water, are given in the table on chart No. II.

ATMOSPHERIC ELECTRICITY.

Thunder-storms.—The dates, states, accompanied by hail, and number of stations, when more than one, in each, are as follows: 1st, Ala.; Cal.; Ill.; Nev.; N. Y. 4th, N. Y.; Tenn.; Texas. 5th, Iowa, 2; Mich.; Minn.; Texas. 6th, Mass. 7th, Fla.; Me. 8th, Ariz. 9th, Mich., 2. 10th, Col.; N. M. 11th, Ariz.; Idaho; M. Ty.; Nev.; Utah. 12th, Ariz.; Utah, 2. 13th, Ill.; Kan., 2; Mich.; Mo.; Neb., 3. 14th, Md., 2; Penn.; Texas. 15th, N. J., 2; Utah. 17th, Or.; Utah. 18th, Ind. Ty.; La., 2; Miss.; Or.; Texas; Utah. 19th, Ark.; Ill., 2; Ind. Ty., hail; Kan., 5; Or. 20th, Ind.; Iowa, 2; Mich.; Miss., 2; Mo.; Ohio; Wis., 2. 21st, Ark.; Ind.; Ky.; La.; Or.; Tenn., 2; Texas. 22nd, Ala.; Ohio, 2; Penn., 2; Tenn., 2. 24th, Tenn. 25th, Me. 26th, Wis. 27th, Ind.; Kan.; Ky.; Mich, hail, 6; Ohio, 3; Texas; Wis. 28th, Cal.; Ill., hail, 4; Ind., 7; Iowa; Mich., hail, 4; Ohio, 10; Penn., 2. 29th, Ill., 4; Ind., 5; Iowa, 2; Ky., 2; Ohio. 30th, Ill., 2; Ind.; Kan.; Mich. 31st, Ill., 6; Ind., hail, 2; Iowa, 3; Kan., hail, 8; Mich., hail, 4; Mo.; N. Y., 2; Ohio, 2; Texas; Wis., 2.

Auroras.—5th, Lunenburgh, Vt. 6th, Vevay, Ind.; Strafford, Vt. 8th, Spiceland, Ind. 9th, St. Paul, Minn. 10th, Monticello, Iowa; Woodstock, Vt.; Buffalo and Malone, N. Y.; Bismarck and Pembina, Dak.; Duluth and St. Paul, Minn.; Port Huron, Mich. 11th, Afton, Iowa; Toledo, Ohio. 12th, Auburn, N. H. 13th, Rockford, Iowa. 16th, Malone, N. Y. 17th, Ft. Brady, Mich.; Buffalo, N. Y. 18th, Nora Springs, Iowa; Vallecitas, Cal. 19th, Lunenburg, Vt. 20th, Malone, N. Y. 25th, Rocky Run, Wis. 26th, N. Y. City.

OPTICAL PHENOMENA.

Solar Halos.—1st, Kan. 2nd, Tenn. 3rd, Ohio; Tenn. 4th, Kan.; Ohio; Wis.; Ill.; Col.; R. I. 5th, Ill.; Me.; Ohio; S. C.; Mich.; N. H. 6th, Tenn.; S. C.; Wy. Ty.; Col.; N. C. 7th, Ga.; N. C.; Tenn. 8th, Md.; Tenn.; N. J. 9th, Ill.; N. Y.; Va.; N. J.; Tenn. 10th, Col.; Del.; Mass; N. Y.; Va.; N. J.; N. C.; R. I.; N. H. 11th and 12th, N. Y. 13th, Iowa; Kan; Mich.; N. H.; Minn.; N. Y. 14th, La.; Miss. 16th, Wy.; Col.; N. Y.; Cal. 17th, Ga.; Iowa. 19th, Ohio. 20th, Me.; Mass.; N. H.; R. I. 21st, Mich.; R. I. 23rd, Cal. 25th, Neb.; Wis.; Minn. 26th, Tenn.; Cal. 27th, Ill.; Iowa; N. C.; Tenn.; Wis.; Col. 28th, Ill.; N. Y.; Ohio; Tenn. 29th, Tenn.; N. Y. 30th, Ill.; N. H.; Tenn.; N. Y. 31st, Tenn.

Lunar halos.—1st, Iowa, N. Y., Ohio, Wis, Conn., N. C.; 2nd, Ill., Iowa, N. Y., N. C., Tenn., Ala., Conn., Penn., Mo., Or.; 3rd, Iowa, Dak., Fla., Penn., Ala., Conn., N. C., Ohio; 4th, Col., Iowa, Neb., Ohio, N. C., D. C., Cal.; 5th, Me., Miss., N. H., N. Y., Ohio, Tenn., Ala., D. C.; 6th, Ga., N. C., S. C., Tenn., Me., Ala., N. M.; 7th, Ga., N. C., Tenn., Va.; 8th, Ill., N. C., N. J.; 9th, N. J., Va.; 10th, Ga., Ky., N. Y., W. Va., D. C.; 12th, Ill.; 16th and 17th, Ill.; 18th, Ky.; 21st, Ky., Tenn.; 24th, Ky., Neb., Me., Mo., N. C., N. J.; 25th, Ill., Mo., N. C.; 26th, Iowa, N. H., Wis., Minn., N. C.; 27th, Ill., Iowa., Mass., Mich., N. H., N. Y., Ohio, Penn., Tenn., Wis., Dak., Me., Ind., Conn., N. M., La., N. C.; 28th, Ill. Ind., Mass, Ohio, Tenn., Dak, Me, Ky., Ala., N. C.; 29th, Iowa, N. Y., Ohio, Tenn. Ga., Kan., Me., Ind. Ty., Ala., Mo., N. C.; 30th, Col., Ill., Tenn., Ind. Ty., Ala., Conn., Mo., N. C., R. I.; 31st, Ill., Mich., Neb., N. J., Ohio, Tenn., Ind. Ty., Ind., Ala., La., N. C., Miss.

Mirage.—Fort Yuma, Cal., 6th; Golden, Col., 25th; Great Bend, Kan., 1st, 6th, 15th, 23rd, 24th and 25th; Sedgewick, Kan., 23rd; Breckenridge, 13th, 15th and 16th; New London, 13th and 19th.

MISCELLANEOUS PHENOMENA.

Zoological.—*Wild Geese* were observed flying SW. at Cincinnati on the 31st; Charleston, S., 14th; Corsicana, S., 12th and 13th; Breckenridge, S., 7th; Dubuque, S., 11th and 13th; Fort Gibson S., 10th, 14th and 30th; Morgantown, S., 27th; Shreveport, S., 13th; Sandy Hook, S., 14th; Washington, S., 4th and 10th, E., 14th.; Fort Randall, Dak., S., 3rd and 21st; Lower Brule Agency, Dak., S., 19th and 25th; Fort Hartsuff, Neb., S., 27th; Carbondale, Ill., SW., 4th; Laconia, Ind., S., 12th; St. Meinrad, Ind., S., 14th; Wabash, Ind., S., 25th; Afton, Ia., S., 3rd and 12th; Monticello, Ia., S., 11th; Le Roy, Ks., S., 3rd; Great Bend, Ks., S., 20th; Bennettsville, Ky., S., 14th; Somerset, Mass., S. 12th; Fall River, Mass., S., 31st; Brookhaven, Miss., S., 16th; Plattsmouth, Neb, S., 1st; Carson City, Nev., S., 12th and 13th; Waterburgh, N. Y., S., 28th; Palermo, N. Y., SW., 11th; Attaway Hill, N. C., S., 12th and 13th; Bellefontaine, O., S., 31st; Carthagena, O., S., 7th and 14th; Jacksonburgh, O., S., 11th; Tioga, Pa., S., 22nd; Franklin, Pa., SE., 30th; Emporium, Pa., S., 8th and 14th; Belmont Farm, Tex., S., 3rd, 8th and 21st; Gilmer, Tex., S., 4th; Kanab, Utah, S., 2nd; Prospect Hill, Va., 13th; Accotink, Va., S., 11th; Embarrass, Wis., S., 9th, 10th and 11th; Wautoma, Wis., 16th; Utica, Wis., S., 9th, 17th and 18th. *Wild Ducks*, flying N., at Nashville, 4th; Cape Hatteras, S., 28th; Fort Brady, Mich., S., 6th; Golden, Col., SE., 12th; Fort Madison, Ia, N., 16th; Jacksonburgh, O., S., 27th; Monticello, Ia., 24th. *Brants*, seen at Fort Madison, Ia., 1st and 11th; abundant at Great Bend, Kan., 12th. *Cranes*, seen at