

TABLE I.—Climatological data for Weather Bureau Stations, December, 1894.

Table with columns: Districts and stations, Elevation above sea-level, Length of record, Pressure, in inches, Temperature of the air, in degrees Fahrenheit, Humidity and precipitation, Wind, Mean temperature data since opening of station. Rows include various locations like New England, S. Atlantic States, Florida Peninsula, Eastern Gulf States, Western Gulf States, Ohio Val. & Tenn., Lower Lake Region, Upper Lake Region, and North Dakota.

TABLE I.—Climatological data for Weather Bureau Stations, December, 1894—Continued.

Table with columns: Districts and stations, Elevation above sea level, Length of record, Pressure, in inches, Temperature of the air, in degrees Fahrenheit, Humidity and precipitation, Wind, and Mean temperature data since opening of station. Rows include stations like Up. Miss. Val., Keokuk, Cairo, Springfield, Ill., Hannibal, Saint Louis, Missouri Valley, Columbia, Kansas City, Springfield, Mo., Topeka, Omaha, Valentine, Sioux City, Pierre, Huron, Northern Slope, Denver, Pueblo, Concordia, Dodge City, Wichita, Oklahoma, Southern Slope, Amarillo, Santa Fe, Tucson, Yuma, Independence, Carson City, Winnemucca, Salt Lake City, Baker City, Idaho Falls, Spokane, Walla Walla, N. Pac. Coast Region, East Clallam, Fort Canby, Neah Bay, Olympia, Port Angeles, Port Crescent, Pysht, Seattle, Tatoosh Island, Astoria, Portland, Roseburg, Mid. Pac. Coast Reg., Eureka, Red Bluff, Sacramento, San Francisco, Point Reyes Light, S. Pac. Coast Region, Fresno, Los Angeles, San Diego, San Luis Obispo.

NOTE.—The data at stations having no departures are not used in computing the district averages. Letters of the alphabet denote number of days missing from the record. * Two or more directions, dates, or years. † Received too late to be considered in departures, etc. ‡ Normals of temperature and precipitation and extremes of temperature combined with Fort Washakie records. § All temperature and precipitation normals and extremes of temperature are obtained from Fort Buford records. ¶ Normals of temperature and precipitation and extremes of temperature combined with Fort Sully records.

TABLE I a.—Temperature of the wet-bulb thermometer, December, 1894.

Number.	Station.	8 A. M.			8 P. M.			Number.	Station.	8 A. M.			8 P. M.			
		Max.	Min.	Mean.	Max.	Min.	Mean.			Max.	Min.	Mean.	Max.	Min.	Mean.	
<i>New England.</i>																
1	Eastport, Me.	46	— 2	23	46	3	27	71	Milwaukee, Wis.	46	— 3	26	44	5	29	
2	Portland, Me.	41	7	22	42	9	26	72	Green Bay, Wis.	42	— 6	23	42	1	28	
3	Northfield, Vt.	39	—16	17	40	—15	20	73	Duluth, Minn.	39	—16	22	40	— 5	25	
4	Boston, Mass.	47	8	28	46	8	29	<i>North Dakota.</i>								
5	Nantucket, Mass.	50	—15	34	52	12	34	74	Moorhead, Minn.	35	—18	16	39	—14	21	
6	Woods Holl, Mass.	49	—10	33	54	12	33	75	St. Vincent, Minn.	34	—19	12	36	—18	16	
7	Block Island, R. I.	49	10	33	52	14	34	76	Bismarck, N. Dak.	33	—23	14	41	—12	20	
8	New Haven, Conn.	45	5	27	48	8	30	77	Williston, N. Dak.	27	—21	12	33	—13	17	
9	New London, Conn.	46	8	29	50	13	32	<i>Upper Mississippi Valley.</i>								
<i>Middle Atlantic States.</i>																
10	Albany, N. Y.	43	— 4	25	44	— 2	28	78	St. Paul, Minn.	41	—12	23	42	— 6	26	
11	New York, N. Y.	45	8	31	47	11	33	79	La Crosse, Wis.	42	— 3	24	49	— 4	29	
12	Harrisburg, Pa.	43	4	29	44	9	33	80	Davenport, Iowa.	46	— 2	26	51	2	30	
13	Philadelphia, Pa.	46	7	32	46	12	34	81	Des Moines, Iowa.	49	— 5	26	47	1	32	
14	Atlantic City, N. J.	49	8	34	50	14	36	82	Keokuk, Iowa.	49	0	28	52	3	32	
15	Baltimore, Md.	46	6	31	46	11	34	83	Cairo, Ill.	60	1	34	58	12	38	
16	Washington, D. C.	45	5	30	47	12	34	85	Springfield, Ill.	46	— 2	29	52	7	32	
17	Lynchburg, Va.	50	6	33	51	13	36	86	Hannibal, Mo.	49	1	29	55	3	33	
18	Norfolk, Va.	58	12	38	62	17	41	87	St. Louis, Mo.	52	0	33	55	8	36	
<i>South Atlantic States.</i>																
19	Charlotte, N. C.	61	3	36	58	11	41	88	Columbia, Mo.	55	— 2	29	52	4	36	
20	Hatteras, N. C.	66	17	46	65	24	48	89	Kansas City, Mo.	55	— 2	31	56	6	35	
21	Kittyhawk, N. C.	61	14	43	63	19	45	90	Springfield, Mo.	42	— 6	24	50	1	32	
22	Raleigh, N. C.	62	9	36	60	18	41	91	Omaha, Nebr.	42	— 6	24	50	1	32	
23	Wilmington, N. C.	65	12	40	65	18	45	92	Valentine, Nebr.	35	—19	17	42	— 3	27	
24	Charleston, S. C.	66	11	45	63	20	49	93	Sioux City, Iowa.	36	—11	22	47	0	29	
25	Augusta, Ga.	64	10	40	66	13	46	94	Pierre, S. Dak.	38	—13	18	46	— 2	26	
26	Savannah, Ga.	67	10	45	67	17	50	95	Huron, S. Dak.	43	—17	18	48	— 4	24	
27	Jacksonville, Fla.	66	13	49	68	20	53	<i>Northern Slope.</i>								
<i>Florida Peninsula.</i>																
28	Jupiter, Fla.	71	22	60	73	34	62	96	Havre, Mont.	35	— 7	17	38	— 1	22	
29	Key West, Fla.	73	41	64	74	43	65	97	Miles City, Mont.	30	—18	15	39	— 6	24	
30	Tampa, Fla.	72	18	54	72	29	59	98	Helena, Mont.	37	— 8	17	40	— 2	23	
31	Titusville, Fla.	67	17	55	72	28	58	99	Rapid City, S. Dak.	40	—14	21	43	— 5	24	
<i>Eastern Gulf States.</i>																
32	Atlanta, Ga.	63	4	39	60	6	43	100	Cheyenne, Wyo.	36	—10	20	34	— 6	21	
33	Pensacola, Fla.	70	13	49	70	21	53	101	Lander, Wyo.	41	—16	9	33	— 3	18	
34	Mobile, Ala.	68	14	47	67	22	52	102	North Platte, Nebr.	35	—10	16	41	4	27	
35	Montgomery, Ala.	67	11	43	65	15	49	<i>Middle Slope.</i>								
36	Meridian, Miss.	64	10	40	65	16	47	103	Denver, Colo.	45	— 2	22	40	— 1	28	
37	Vicksburg, Miss.	64	14	44	65	18	47	104	Pueblo, Colo.	36	—12	18	44	— 1	28	
38	New Orleans, La.	68	20	50	68	24	54	105	Concordia, Kans.	44	— 5	25	50	1	31	
<i>Western Gulf States.</i>																
39	Shreveport, La.	64	10	43	65	24	48	106	Dodge City, Kans.	44	—11	23	53	— 5	30	
40	Fort Smith, Ark.	59	6	36	62	14	43	107	Wichita, Kans.	46	— 9	27	55	2	35	
41	Little Rock, Ark.	62	7	38	62	18	42	108	Oklahoma, Okla.	56	— 2	32	56	3	39	
42	Corpus Christi, Tex.	70	23	55	72	32	56	<i>Southern Slope.</i>								
43	Galveston, Tex.	68	20	53	68	24	56	109	Abilene, Tex.	60	7	37	61	16	42	
44	Palestine, Tex.	64	8	43	67	21	49	110	Amarillo, Tex.	48	1	28	49	5	34	
45	San Antonio, Tex.	66	15	44	62	24	50	111	<i>Southern Plateau.</i>							
<i>Ohio Valley and Tennessee.</i>																
46	Chattanooga, Tenn.	61	5	37	59	6	41	112	El Paso, Tex.	48	19	36	54	25	42	
47	Knoxville, Tenn.	54	2	35	60	6	40	113	Santa Fe, N. Mex.	42	8	25	41	9	28	
48	Memphis, Tenn.	62	6	38	61	18	42	114	Tucson, Ariz.	57	31	43	60	38	50	
49	Nashville, Tenn.	58	3	35	59	7	40	115	Yuma, Ariz.	50	37	43	58	40	50	
50	Lexington, Ky.	54	— 2	32	55	0	36	116	Independence, Cal.	40	22	31	46	30	36	
51	Louisville, Ky.	57	5	33	57	4	35	117	<i>Middle Plateau.</i>							
52	Indianapolis, Ind.	52	3	31	48	5	33	118	Carson City, Nev.	35	10	24	39	20	30	
53	Cincinnati, Ohio	56	2	30	52	4	32	119	Winnemucca, Nev.	35	— 9	18	37	8	26	
54	Columbus, Ohio	52	2	30	52	5	33	120	Salt Lake City, Utah	42	9	25	42	18	30	
55	Pittsburg, Pa.	53	— 3	32	53	5	35	<i>Northern Plateau.</i>								
56	Parkersburg, W. Va.	55	— 2	31	56	8	36	121	Baker City, Oreg.	36	— 1	21	38	9	25	
<i>Lower Lake Region.</i>																
57	Buffalo, N. Y.	48	4	30	49	8	32	122	Idaho Falls, Idaho	34	— 8	12	40	— 2	21	
58	Oswego, N. Y.	41	— 1	27	50	9	30	123	Spokane, Wash.	34	8	27	39	18	31	
59	Rochester, N. Y.	46	0	29	48	4	30	124	Walla Walla, Wash.	44	14	30	44	21	33	
60	Erie, Pa.	47	2	30	51	10	31	125	<i>North Pacific Coast Region.</i>							
61	Cleveland, Ohio	52	2	30	47	8	31	126	Fort Canby, Wash.	48	30	38	45	32	39	
62	Sandusky, Ohio	50	4	30	51	12	32	127	Port Angeles, Wash.	40	25	34	42	30	36	
63	Toledo, Ohio	51	0	29	52	8	32	128	Seattle, Wash.	42	26	35	42	30	38	
64	Detroit, Mich.	48	— 3	28	48	5	31	129	Tatoosh Island, Wash.	48	34	39	46	36	40	
<i>Upper Lake Region.</i>																
65	Alpena, Mich.	41	— 6	25	40	1	28	130	Portland, Oreg.	45	26	35	42	24	37	
66	Grand Haven, Mich.	51	7	30	46	7	32	131	Roseburg, Oreg.	44	21	35	44	27	38	
67	Marquette, Mich.	42	— 2	25	41	4	27	<i>Middle Pacific Coast Region.</i>								
68	Port Huron, Mich.	45	— 4	27	45	3	30	128	Eureka, Cal.	52	32	42	52	40	46	
69	Sault Ste. Marie, Mich.	39	—18	23	37	—12	25	129	Red Bluff, Cal.	46	31	41	50	36	44	
70	Chicago, Ill.	47	— 2	29	50	8	31	130	Sacramento, Cal.	50	34	43	52	39	46	
								131	San Francisco, Cal.	51	37	46	54	41	47	
<i>South Pacific Coast Region.</i>																
65	Fresno, Cal.	50	32	42	52	41	48	132	<i>South Pacific Coast Region.</i>							
66	Los Angeles, Cal.	54	40	46	56	45	51	133	Fresno, Cal.	50	32	42	52	41	48	
67	San Diego, Cal.	56	40	48	58	45	52	134	Los Angeles, Cal.	54	40	46	56	45	51	
68	San Luis Obispo, Cal.	54	35	45	55	43	49	135	San Diego, Cal.	56	40	48	58	45	52	
									135	San Luis Obispo, Cal.	54	35	45	55	43	49

TABLE II.—Meteorological record of voluntary and other co-operating observers, December, 1894.

Table with columns: Stations, Temperature (Fahrenheit) Max, Min, Mean, Precip'n. Includes entries for Alabama, Arkansas, and California.

Meteorological record of voluntary observers, &c.—Continued.

Table with columns: Stations, Temperature (Fahrenheit) Max, Min, Mean, Precip'n. Includes entries for California—Cont'd and California—Cont'd.

Meteorological record of voluntary observers, &c.—Continued.

Meteorological record of voluntary observers, &c.—Continued.

Table with multiple columns for stations, temperature (Max, Min, Mean), and precipitation (Precip'n) for various regions including California, Colorado, Georgia, Illinois, Indiana, Iowa, and Missouri. Each station entry includes its name and corresponding weather data for the month.

Meteorological record of voluntary observers, &c.—Continued.

Meteorological record of voluntary observers, &c.—Continued.

Table with 4 columns: Stations, Temperature (Fahrenheit) (Max, Min, Mean), and Precip'n. Includes entries for Iowa, Kansas, and Louisiana.

Table with 4 columns: Stations, Temperature (Fahrenheit) (Max, Min, Mean), and Precip'n. Includes entries for Maryland, Massachusetts, and Minnesota.

Meteorological record of voluntary observers, &c.—Continued.

Table with columns for Stations, Temperature (Fahrenheit) (Max, Min, Mean), and Precip'n. Includes entries for Minnesota, Missouri, and Montana.

Meteorological record of voluntary observers, &c.—Continued.

Table with columns for Stations, Temperature (Fahrenheit) (Max, Min, Mean), and Precip'n. Includes entries for Nebraska, Nevada, and New Hampshire.

Meteorological record of voluntary observers, &c.—Continued.

Meteorological record of voluntary observers, &c.—Continued.

Table with columns for Stations, Temperature (Fahrenheit), and Precip'n. Includes entries for New Jersey, New York, and New Mexico.

Table with columns for Stations, Temperature (Fahrenheit), and Precip'n. Includes entries for N. Dakota, Ohio, and Oklahoma.

Meteorological record of voluntary observers, &c.—Continued.

Meteorological record of voluntary observers, &c.—Continued.

Table with multiple columns for Stations, Temperature (Fahrenheit), and Precipitation. It is divided into sections for Oregon, Pennsylvania, Tennessee, and Texas, with sub-sections for various counties and cities within each state.

Meteorological record of voluntary observers, &c.—Continued.

Table with columns for Stations, Temperature (Fahrenheit), and Precip'n. Includes entries for Washington—Cont'd, Wisconsin—Cont'd, and various other locations.

Reports received too late, &c.—Continued.

Table with columns for Stations, Temperature (Fahrenheit), and Precip'n. Includes entries for Massachusetts, Missouri, Montana, Nebraska, Texas, Washington, West Virginia, and Mexico.

EXPLANATION OF SIGNS.

*Extremes of temperature from observed readings of dry thermometer. †Weather Bureau instruments. A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus: 1 Mean of 7 a. m. + 2 p. m. + 9 p. m. + 4.

TABLE III.—Data from Canadian stations for the month of December, 1894.

Table with columns for Station, Pressure (Mean not reduced, Mean reduced, Departure from normal), Temperature (Mean, Departure from normal), Precipitation (Total, Departure from normal), and Prevailing direction of wind.

Reports received too late to be used in general discussion of weather for December, 1894.

Table with columns for Stations, Temperature, and Precip'n. Includes entries for Massachusetts, Oregon, Missouri, and East Portland.

Received too late for publication in November, 1894.

Table with columns for Stations, Temperature, and Precip'n. Includes entries for California, Iowa, and Kansas.

TABLE IV a.—Hourly sunshine as deduced from sunshine recorders, December, 1894.

Table with columns: Station, Instrument, Percentage for each hour of local mean time ending with the respective hour (A. M., P. M.), Monthly summary (Instrumental record: Actual, Possible, Percent of possible, Personal estimate).

*No record. †Record for 29 days.

TABLE IV b.—Hourly precipitation, December, 1894.

Table with columns: Station, 1 a. m., 2 a. m., 3 a. m., 4 a. m., 5 a. m., 6 a. m., 7 a. m., 8 a. m., 9 a. m., 10 a. m., 11 a. m., Noon, 1 p. m., 2 p. m., 3 p. m., 4 p. m., 5 p. m., 6 p. m., 7 p. m., 8 p. m., 9 p. m., 10 p. m., 11 p. m., Midnight, Total.

*Record incomplete.

TABLE V.—Mean temperature for each hour of seventy-fifth meridian time, December, 1894.

Table with columns for Stations, 1 a.m., 2 a.m., 3 a.m., 4 a.m., 5 a.m., 6 a.m., 7 a.m., 8 a.m., 9 a.m., 10 a.m., 11 a.m., Noon, 1 p.m., 2 p.m., 3 p.m., 4 p.m., 5 p.m., 6 p.m., 7 p.m., 8 p.m., 9 p.m., 10 p.m., 11 p.m., Midnight, and Mean. Rows list various cities such as Abilene, Tex; Albany, N. Y; Alpena, Mich; Amarillo, Tex; Atlanta, Ga; Augusta, Ga; Baker City, Oreg; Baltimore, Md; Bismarck, N. Dak; Boston, Mass; Buffalo, N. Y; Charleston, S. C; Charlotte, N. C; Cheyenne, Wyo; Chicago, Ill; Cincinnati, Ohio; Cleveland, Ohio; Columbus, Ohio; Denver, Colo; Des Moines, Iowa; Detroit, Mich; Dodge City, Kans; Duluth, Minn; Eastport, Me; El Paso, Tex; Fort Smith, Ark; Galveston, Tex; Grand Haven, Mich; Havre, Mont; Helena, Mont; Huron, S. Dak; Independence, Cal; Indianapolis, Ind; Jacksonville, Fla; Kansas City, Mo; Key West, Fla; Knoxville, Tenn; Lander, Wyo; Little Rock, Ark; Louisville, Ky; Lynchburg, Va; Marquette, Mich; Memphis, Tenn; Milwaukee, Wis; Montgomery, Ala; Moorhead, Minn; Nantucket, Mass; Nashville, Tenn; Nashua, N. H; New Haven, Conn; New Orleans, La; New York, N. Y; Norfolk, Va; North Platte, Nebr; Omaha, Nebr; Parkersburg, W. Va; Philadelphia, Pa; Pittsburg, Pa; Portland, Oreg; Rapid City, S. Dak; Red Bluff, Cal; Rochester, N. Y; Roseburg, Oreg; St. Louis, Mo; St. Paul, Minn; Salt Lake City, Utah; San Diego, Cal; San Francisco, Cal; Santa Fe, N. Mex; Sault Ste. Marie, Mich; Savannah, Ga; Seattle, Wash; Shreveport, La; Spokane, Wash; Titusville, Fla; Toledo, Ohio; Tucson, Ariz; Vicksburg, Miss; Washington, D. C; Williston, N. Dak; Wilmington, N. O; Winnemucca, Nev; Yuma, Ariz.

TABLE VI.—Mean pressure for each hour of seventy-fifth meridian time, December, 1894.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex	28.383	.377	.374	.375	.373	.370	.374	.381	.389	.396	.406	.407	.394	.366	.345	.333	.329	.332	.337	.347	.365	.378	.384	.389	.371
Albany, N. Y.	30.053	.057	.050	.047	.044	.047	.053	.057	.064	.059	.042	.024	.006	.000	.000	.013	.022	.032	.042	.045	.047	.054	.054	.050	.040
Alpena, Mich	29.350	.350	.358	.356	.349	.349	.357	.355	.357	.359	.352	.330	.314	.301	.298	.305	.311	.317	.323	.325	.333	.337	.341	.342	.336
Atlanta, Ga	28.993	.993	.997	.994	.992	.995	.006	.017	.025	.040	.039	.024	.999	.978	.969	.968	.974	.980	.987	.990	.994	.998	.000	.995	.998
Augusta, Ga	30.010	.006	.006	.006	.005	.010	.015	.021	.030	.039	.033	.020	.995	.977	.969	.968	.971	.976	.985	.992	.001	.008	.013	.013	.003
Baltimore, Md	29.955	.955	.951	.944	.943	.944	.955	.962	.973	.977	.970	.949	.935	.925	.926	.931	.937	.945	.955	.960	.967	.968	.967	.958	.952
Bismarck, N. Dak.	28.219	.213	.214	.217	.219	.216	.218	.221	.228	.238	.244	.243	.229	.211	.201	.194	.197	.206	.214	.219	.222	.221	.220	.220	.218
Boston, Mass	29.970	.984	.976	.969	.969	.976	.983	.988	.987	.989	.970	.953	.935	.935	.939	.945	.955	.961	.968	.969	.975	.976	.978	.972	.968
Buffalo, N. Y.	29.326	.325	.330	.325	.319	.319	.323	.330	.335	.344	.340	.347	.312	.303	.304	.306	.311	.319	.327	.327	.328	.329	.329	.327	.323
Charleston, S. C.	30.162	.158	.159	.156	.157	.162	.173	.182	.191	.200	.198	.175	.154	.133	.126	.125	.131	.139	.149	.159	.161	.163	.163	.161	.160
Chicago, Ill	29.189	.186	.193	.189	.183	.182	.188	.193	.198	.205	.213	.205	.185	.172	.166	.170	.173	.180	.183	.188	.187	.190	.190	.193	.188
Cincinnati, Ohio	29.474	.472	.473	.473	.468	.470	.480	.487	.497	.504	.503	.490	.468	.455	.447	.451	.459	.465	.474	.476	.480	.480	.485	.483	.476
Cleveland, Ohio	29.287	.289	.297	.295	.296	.299	.303	.302	.308	.315	.315	.299	.281	.270	.268	.271	.276	.286	.294	.298	.293	.290	.289	.288	.292
Columbus, Ohio	29.261	.259	.263	.261	.257	.262	.268	.272	.279	.285	.285	.270	.252	.239	.234	.235	.240	.245	.256	.261	.261	.262	.267	.266	.260
Denver, Colo	24.794	.785	.775	.775	.773	.765	.761	.762	.773	.785	.798	.806	.795	.777	.760	.751	.754	.758	.768	.778	.787	.792	.795	.795	.791
Des Moines, Iowa	29.184	.183	.190	.195	.195	.195	.195	.196	.199	.206	.213	.208	.188	.168	.156	.153	.152	.155	.160	.168	.173	.177	.181	.183	.182
Detroit, Mich	29.290	.288	.295	.295	.292	.290	.296	.304	.309	.314	.312	.296	.276	.264	.258	.252	.268	.275	.283	.288	.289	.291	.290	.290	.288
Dodge City, Kans.	27.509	.503	.496	.500	.498	.494	.489	.495	.508	.516	.527	.532	.516	.485	.465	.458	.461	.464	.474	.482	.493	.502	.509	.510	.495
Duluth, Minn	29.267	.268	.272	.270	.264	.264	.264	.266	.270	.271	.271	.262	.244	.234	.233	.240	.251	.261	.267	.272	.273	.268	.266	.268	.262
Eastport, Me	29.963	.966	.962	.959	.962	.969	.979	.993	.998	.992	.975	.956	.940	.935	.937	.939	.945	.955	.959	.958	.958	.955	.957	.955	.961
El Paso, Tex	26.311	.305	.297	.296	.297	.293	.295	.305	.320	.333	.337	.345	.336	.307	.284	.265	.261	.260	.263	.273	.287	.296	.304	.310	.299
Galveston, Tex	30.182	.178	.176	.177	.175	.176	.183	.195	.208	.221	.229	.220	.199	.171	.154	.148	.147	.149	.154	.166	.176	.185	.190	.193	.181
Grand Haven, Mich.	29.367	.366	.373	.376	.363	.360	.361	.365	.370	.374	.379	.370	.353	.338	.331	.328	.340	.344	.350	.352	.354	.357	.358	.358	.358
Havre, Mont	27.355	.352	.352	.349	.352	.345	.343	.349	.346	.357	.370	.377	.376	.362	.344	.333	.329	.328	.330	.328	.335	.342	.344	.348	.347
Helena, Mont	25.839	.839	.835	.838	.845	.844	.842	.844	.848	.852	.862	.866	.859	.839	.828	.821	.818	.823	.828	.827	.830	.831	.834	.833	.838
Huron, S. Dak	28.666	.650	.649	.656	.651	.647	.645	.648	.642	.647	.658	.659	.645	.628	.618	.612	.617	.628	.639	.643	.644	.646	.653	.658	.643
Independence, Cal.	26.066	.067	.059	.055	.055	.052	.049	.050	.062	.075	.084	.096	.097	.078	.068	.061	.022	.015	.012	.015	.028	.039	.050	.062	.053
Indianapolis, Ind.	29.298	.297	.299	.301	.300	.302	.310	.314	.320	.326	.326	.313	.295	.281	.276	.278	.283	.285	.292	.295	.298	.300	.301	.298	.299
Jacksonville, Fla.	30.142	.140	.138	.138	.137	.144	.157	.167	.180	.185	.177	.158	.129	.114	.105	.106	.113	.120	.131	.137	.143	.146	.151	.148	.142
Kansas City, Mo.	29.134	.135	.136	.143	.139	.136	.141	.150	.156	.166	.175	.174	.154	.129	.109	.104	.107	.109	.115	.121	.128	.133	.134	.138	.136
Key West, Fla	30.128	.118	.111	.107	.108	.114	.125	.141	.156	.164	.161	.145	.120	.101	.093	.087	.093	.101	.108	.124	.133	.138	.147	.132	.123
Knoxville, Tenn	29.142	.140	.140	.137	.138	.139	.148	.155	.162	.172	.174	.158	.133	.113	.105	.109	.110	.118	.127	.135	.137	.140	.144	.143	.138
Little Rock, Ark	29.871	.864	.868	.870	.866	.869	.880	.894	.907	.923	.936	.931	.904	.879	.864	.856	.854	.857	.868	.876	.882	.884	.880	.882	.882
Louisville, Ky	29.586	.581	.585	.585	.581	.585	.592	.600	.608	.615	.618	.606	.584	.568	.560	.560	.565	.571	.578	.586	.587	.590	.593	.593	.587
Lynchburg, Va	29.427	.439	.428	.427	.427	.430	.440	.447	.456	.460	.453	.431	.405	.392	.388	.391	.395	.402	.413	.417	.421	.424	.425	.421	.423
Marquette, Mich	29.165	.163	.171	.165	.159	.154	.157	.158	.158	.160	.164	.153	.140	.131	.131	.140	.148	.156	.159	.163	.162	.163	.163	.163	.156
Memphis, Tenn	29.849	.847	.846	.849	.847	.851	.860	.876	.890	.903	.908	.901	.881	.861	.845	.841	.847	.854	.861	.867	.868	.866	.868	.868	.861
Milwaukee, Wis	29.318	.319	.326	.329	.323	.324	.328	.329	.331	.337	.343	.335	.319	.307	.303	.306	.311	.315	.315	.320	.320	.318	.316	.314	.321
Moorhead, Minn	28.985	.986	.986	.991	.990	.985	.990	.993	.994	.997	.008	.014	.999	.989	.976	.979	.985	.993	.996	.997	.996	.991	.988	.990	.992
Nantucket, Mass	30.103	.106	.107	.101	.098	.103	.109	.115	.117	.117	.103	.085	.074	.069	.070	.076	.081	.087	.097	.098	.098	.101	.100	.097	.096
Nashville, Tenn	29.592	.592	.598	.598	.594	.596	.606	.608	.616	.625	.631	.613	.589	.578	.570	.573	.577	.584	.589	.594	.595	.597	.599	.599	.597
New Haven, Conn.	30.027	.026	.025	.028	.028	.029	.030	.031	.032	.036	.039	.038	.031	.025	.025	.026	.027	.028	.029	.030	.031	.031	.031	.031	.030
New Orleans, La	30.139	.136	.133	.131	.132	.133	.142	.153	.166	.180	.177	.163	.141	.117	.107	.106	.108	.114	.125	.138	.147	.151	.154	.148	.139
New York, N. Y.	29.942	.941	.936	.928	.922	.924	.928	.935	.936	.940	.925	.910	.898	.895	.900	.906	.915	.927	.935	.942	.945	.947	.946	.940	.928
Norfolk, Va	30.098	.095	.094	.089	.091	.098	.110	.120	.133	.139	.129	.110	.085	.073	.069	.069	.075	.081	.090	.095	.098	.102	.103	.098	.098
Omaha, Neb	28.944	.943	.946	.951	.948	.944	.941	.940	.943	.942	.945	.944	.932	.914	.903	.898	.902	.905	.914	.922	.931	.933	.938	.944	.932
Parkersburg, W. Va.	29.482	.483	.485	.484	.480	.485	.493	.501	.511	.519	.517	.502	.485	.474	.468	.468	.475	.481	.482	.486	.488	.490	.489	.488	.488
Philadelphia, Pa	30.028	.028	.024	.019	.016	.020	.024	.030	.040	.045	.036	.021	.008	.001	.003	.005	.010	.016	.027	.031	.035	.037	.035	.025	.023
Pittsburg, Pa	29.253	.252	.255	.255	.250																				

TABLE VII.—Average wind movement for each hour of seventy-fifth meridian time, December, 1894.

Table with columns for Stations, 1 a. m., 2 a. m., 3 a. m., 4 a. m., 5 a. m., 6 a. m., 7 a. m., 8 a. m., 9 a. m., 10 a. m., 11 a. m., Noon, 1 p. m., 2 p. m., 3 p. m., 4 p. m., 5 p. m., 6 p. m., 7 p. m., 8 p. m., 9 p. m., 10 p. m., 11 p. m., Midnight, and Mean. Rows list various cities such as Abilene, Albany, Alpena, Amarillo, Atlanta, etc.

TABLE VII.—Average wind movement, etc.—Continued.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.	
Palestine, Tex.....	6.2	6.2	6.1	5.9	5.8	5.7	6.0	5.7	5.7	6.4	7.2	7.6	7.6	7.8	7.8	7.7	7.7	6.6	5.0	4.7	5.1	5.2	5.4	5.7	6.3	
Parkersburg, W. Va.....	4.4	4.6	4.6	4.2	4.4	4.4	4.9	5.5	5.8	6.0	6.9	6.9	7.4	7.8	8.0	7.8	6.6	6.1	5.8	5.9	5.3	4.7	4.9	4.7	5.7	
Pensacola, Fla.....	8.8	8.1	8.6	9.2	9.4	9.2	9.1	10.3	11.0	10.6	10.6	10.4	10.0	10.6	10.3	10.0	8.7	7.4	7.4	9.3	9.5	9.5	10.1	10.1	9.4	
Philadelphia, Pa.....	9.1	9.1	9.1	8.6	8.5	8.3	8.5	9.6	9.5	10.0	10.9	10.9	11.4	12.0	11.9	11.4	10.9	10.5	10.9	10.6	9.9	9.9	10.3	10.1	10.1	
Pierre, S. Dak.....	5.5	5.6	6.1	5.6	5.8	5.3	5.7	6.0	6.0	5.8	6.7	7.1	7.3	9.3	10.2	9.5	9.7	8.8	7.8	8.1	7.2	7.1	6.4	6.0	7.0	
Pittsburg, Pa.....	6.1	5.7	5.7	5.4	5.1	5.5	5.9	6.0	7.0	7.9	8.0	7.8	8.7	8.4	8.4	8.6	7.9	7.1	6.8	6.6	7.0	6.3	6.5	6.5	6.9	
Port Angeles, Wash.....	5.4	5.1	5.2	5.3	5.5	6.2	6.0	5.1	4.8	4.9	4.9	4.3	4.2	4.0	4.6	5.0	5.3	5.2	5.0	5.3	5.3	5.5	5.3	5.5	5.1	
Port Huron, Mich.....	11.6	11.9	11.9	11.9	12.5	13.0	13.6	13.6	13.4	13.9	15.0	14.8	15.2	15.4	15.3	14.4	14.1	13.4	13.3	13.6	14.0	13.6	13.6	13.3	13.0	13.6
Portland, Me.....	7.5	7.7	8.3	7.8	8.2	7.7	7.8	7.2	7.3	7.3	7.0	7.5	8.1	8.5	7.7	7.8	7.7	7.4	8.0	8.0	7.5	7.2	7.5	7.2	7.7	
Portland, Oreg.....	9.4	9.5	9.8	9.3	9.6	9.8	10.3	10.5	11.6	11.4	10.9	10.4	11.8	12.7	12.3	12.8	13.3	12.7	11.6	10.4	9.3	9.2	9.9	10.4	10.8	
Pueblo, Colo.....	5.7	5.0	5.8	5.2	5.9	5.6	5.9	5.0	4.9	5.1	6.1	6.5	7.5	8.5	8.8	10.2	10.3	9.5	8.3	7.3	6.5	6.4	6.1	5.7	6.7	
Raleigh, N. C.....	6.3	6.2	6.4	6.4	6.1	5.9	6.0	5.1	4.8	4.9	4.8	4.6	4.9	4.0	4.6	5.0	5.3	5.2	5.0	5.3	4.9	4.9	5.4	5.3	5.1	
Rapid City, S. Dak.....	8.2	7.6	7.0	8.0	7.7	8.2	8.0	7.6	7.7	6.6	7.0	6.1	7.3	8.8	11.4	12.4	11.6	10.0	7.8	7.4	8.6	8.6	8.8	8.6	8.6	
Red Bluff, Cal.....	8.5	7.9	7.7	7.2	7.5	8.0	8.3	8.7	8.1	8.5	8.3	8.4	8.9	9.9	10.3	10.6	10.2	9.8	9.9	9.5	8.6	8.8	8.9	8.5	8.8	
Rochester, N. Y.....	9.7	9.4	9.3	9.1	8.9	8.7	8.5	9.0	9.5	9.7	10.8	10.6	11.4	11.4	11.2	11.5	10.0	10.0	9.8	9.1	9.2	9.6	9.9	9.6	9.8	
Roseburg, Oreg.....	2.4	2.7	2.3	2.7	2.5	3.0	2.1	2.6	2.5	2.6	2.3	2.5	2.6	3.1	3.4	3.6	3.4	4.0	3.5	3.2	2.8	2.5	2.2	1.9	2.8	
Sacramento, Cal.....	10.8	10.8	10.6	10.0	10.7	10.7	10.8	12.1	11.8	11.8	11.1	11.5	11.5	12.2	12.2	11.8	11.1	10.6	9.9	10.2	10.5	10.6	10.8	10.7	11.0	
St. Louis, Mo.....	12.5	12.8	12.3	11.4	11.2	11.1	12.0	12.0	11.4	11.6	11.6	11.9	12.7	12.9	13.9	13.3	12.6	12.1	12.7	13.3	13.3	12.5	12.5	12.7	12.4	
St. Paul, Minn.....	6.9	6.7	6.9	6.8	7.2	7.8	7.9	7.9	7.9	8.0	8.4	8.9	8.2	9.7	9.9	10.2	9.5	8.6	7.9	7.8	8.8	8.4	8.2	7.4	8.2	
St. Vincent, Mian.....	7.0	7.2	7.4	7.3	7.9	8.1	8.6	9.0	8.9	8.7	9.5	10.3	10.7	11.2	10.7	10.2	9.3	8.7	7.3	7.4	7.2	7.0	7.0	6.9	8.4	
Salt Lake City, Utah.....	4.8	4.9	4.4	3.7	4.4	4.7	4.8	4.8	3.7	4.3	4.5	5.7	7.4	8.0	7.8	8.5	8.7	8.3	6.9	5.4	4.1	4.3	4.5	4.7	5.6	
San Antonio, Tex.....	4.9	5.3	4.7	5.2	5.3	4.9	5.2	5.1	4.3	5.0	6.1	6.8	7.7	7.4	6.9	7.1	7.2	7.0	6.9	6.2	6.1	5.9	6.4	5.8	6.0	
San Diego, Cal.....	3.7	3.8	3.5	3.1	3.1	3.4	3.4	3.5	3.4	3.5	3.3	2.6	3.5	4.5	5.9	6.7	6.8	6.5	6.1	5.4	4.6	4.4	4.1	4.1	4.3	
Sandusky, Ohio.....	9.9	9.3	9.2	9.3	9.4	8.8	9.6	10.2	10.5	10.7	11.5	11.5	11.0	11.1	10.6	11.0	10.4	9.6	10.0	9.7	9.8	10.0	10.0	9.5	10.1	
San Francisco, Cal.....	7.4	8.4	8.1	8.3	8.7	8.3	8.6	8.8	9.4	9.9	9.8	11.8	10.0	9.4	9.4	10.1	10.6	10.1	9.3	9.1	9.8	8.6	8.5	7.3	9.0	
San Luis Obispo, Cal.....	5.0	5.1	5.0	5.2	4.6	5.0	5.1	4.4	4.4	5.5	5.6	5.3	6.3	7.9	8.7	8.5	8.7	8.2	7.5	7.6	5.9	4.5	5.7	5.6	6.0	
Santa Fe, N. Mex.....	4.5	3.5	3.6	4.4	4.8	3.9	4.8	5.0	5.3	5.4	5.4	7.0	7.5	8.2	8.7	8.5	8.7	8.5	6.4	5.3	4.5	4.3	4.5	4.6	5.7	
Sault Ste. Marie, Mich.....	9.1	9.0	8.6	8.4	7.9	7.7	7.5	7.7	7.5	7.8	8.1	8.3	8.5	8.9	9.8	10.4	10.6	11.0	10.3	10.4	10.6	10.5	10.1	9.9	9.1	
Savannah, Ga.....	7.3	7.0	7.3	6.9	6.9	6.7	7.2	6.9	7.4	7.6	8.3	9.4	9.6	9.5	9.6	9.3	8.6	7.8	7.0	6.9	7.3	7.3	7.1	7.4	7.8	
Seattle, Wash.....	6.0	6.3	5.3	5.2	5.6	5.6	5.3	4.9	5.4	5.1	5.2	6.0	5.7	6.3	6.1	6.6	6.8	7.3	6.9	7.1	7.1	6.3	6.2	6.0	6.0	
Shreveport, La.....	6.7	6.3	6.3	6.1	6.3	6.2	6.0	6.0	6.1	6.5	7.3	7.3	7.0	7.0	7.1	7.2	7.5	7.2	6.7	6.5	6.7	7.1	6.8	6.8	6.7	
Sioux City, Iowa.....	7.7	8.4	8.5	9.3	9.4	9.6	9.3	9.6	9.7	10.7	11.2	12.3	12.8	13.3	13.1	13.7	13.0	11.2	9.0	8.7	8.1	8.4	9.2	8.2	10.2	
Spokane, Wash.....	5.2	5.6	5.5	5.4	4.9	5.3	5.1	4.9	5.0	5.4	5.5	5.6	6.2	6.8	6.9	7.1	6.9	6.5	5.9	5.5	4.9	5.1	5.7	6.2	5.7	
Springfield, Ill.....	10.5	10.3	10.1	10.0	9.8	9.6	9.5	10.0	10.2	10.8	11.2	11.5	12.0	12.1	12.3	12.4	11.3	10.0	9.5	10.1	11.1	11.1	11.3	11.2	10.5	
Springfield, Mo.....	10.9	10.8	11.0	10.2	10.3	10.5	10.0	9.8	9.3	9.4	10.3	11.0	11.6	12.3	12.5	12.3	12.1	10.6	9.8	10.5	10.6	10.5	10.5	10.7	10.7	
Tampa, Fla.....	5.0	5.1	5.4	4.8	5.0	4.8	4.7	5.2	5.7	6.4	6.6	7.4	7.3	7.3	7.3	7.3	6.6	5.5	4.9	4.6	4.9	4.9	4.6	4.8	5.7	
Tatoosh Island, Wash.....	18.3	19.5	20.2	20.4	21.6	21.9	20.4	21.9	22.0	22.5	23.0	23.6	22.2	22.1	20.4	20.4	20.3	20.2	18.1	19.2	19.2	20.4	20.4	19.0	20.7	
Titusville, Fla.....	9.6	10.0	9.6	9.9	10.0	8.7	9.1	8.9	9.4	10.5	13.0	13.6	15.2	15.2	15.8	15.7	14.9	13.2	12.3	11.4	10.2	10.9	10.2	9.2	11.5	
Toledo, Ohio.....	10.3	9.8	10.4	10.8	10.4	10.5	11.2	11.1	11.5	12.2	13.0	12.9	12.8	13.1	13.7	13.5	12.5	11.5	10.6	11.1	11.3	12.1	11.8	11.5	11.6	
Tucson, Ariz.....	3.8	3.5	3.3	4.3	3.7	3.6	3.4	3.3	3.3	3.6	3.5	3.6	4.5	5.1	5.0	5.3	5.3	4.1	3.5	3.3	3.3	3.6	3.6	3.2	3.9	
Valentine, Nebr.....	8.1	7.7	7.6	7.4	7.2	7.3	7.4	8.1	7.3	7.7	8.1	9.1	11.2	13.3	14.6	15.4	14.3	12.5	9.7	8.8	8.3	7.9	7.5	7.3	9.3	
Vicksburg, Miss.....	6.8	7.2	6.9	6.9	7.2	6.7	6.4	6.4	6.3	6.7	7.1	7.3	7.1	7.3	7.4	7.4	7.5	6.9	6.5	6.5	6.4	7.0	6.5	6.2	6.8	
Vineyard Haven, Mass.....	10.5	10.6	10.2	9.7	9.4	8.8	8.2	8.5	9.4	10.1	10.4	10.9	10.7	10.9	10.6	10.2	9.6	9.4	9.4	9.9	10.2	11.0	11.0	11.0	10.0	
Walla Walla, Wash.....	6.9	7.3	7.1	6.3	6.4	5.9	6.1	6.2	6.1	5.7	6.1	5.6	6.1	6.7	7.1	6.6	6.9	6.3	6.1	5.9	6.5	7.0	7.8	7.3	6.5	
Washington, D. C.....	4.9	5.0	4.7	4.2	4.5	5.2	4.6	4.7	5.6	6.7	7.4	8.1	8.5	8.5	9.1	8.4	7.2	6.1	6.5	6.1	6.2	6.1	5.8	5.4	6.2	
Wichita, Kans.....	9.0	8.6	8.9	9.1	9.1	9.3	9.7	9.7	9.5	9.9	10.3	11.0	12.2	12.5	12.4	11.9	11.8	9.7	8.2	7.8	8.4	8.5	8.7	9.0	9.8	
Williston, N. Dak.....	7.0	7.1	7.0	6.9	6.2	6.2	5.7	5.9	5.8	6.0	6.0	6.1	6.6	6.6	6.6	6.6	6.5	6.5	6.1	6.1	6.1	5.6	7.0	7.4	6.9	
Wilmington, N. C.....	6.8	6.9	7.0	7.0	7.3	7.5	7.4	7.0	8.3	9.1	9.3	9.3	9.													

TABLE VIII.—Prevailing and resultant winds from self-registers for December, 1894.

Number.	Station.	Prevailing wind.		Total movement.		Resultant direction.			Resultant movement.		Azimuth of movement minus direction.	Ratio of resultant movement to total movement.
		Direction from.	Duration.	Monthly.	Hourly average.	Direction from.	Duration.	Average hourly velocity.	Direction from.	Amount.		
	(1)	(2)	(3) Hours.	(4) Miles.	(5) Miles.	(6)	(7) Hours.	(8) Miles.	(9)	(10) Miles.	(11) °	(12)
1	Eastport, Me.	nw.	199	9,253	12.4	n. 78 w.	311	11.7	n. 69 w.	3,652	+ 9	0.395
2	Portland, Me.	nw.	173	5,701	7.7	n. 64 w.	351	7.4	n. 55 w.	2,595	+ 9	0.455
4	Boston, Mass.	w.	215	8,465	11.4	n. 72 w.	377	11.4	n. 70 w.	4,310	+ 2	0.509
5	Nantucket, Mass.	n.	175	5,000	12.1	n. 22 w.	214	11.8	n. 3 w.	2,521	+ 19	0.280
6	New Haven, Conn.	n.	199	7,102	9.5	n. 30 w.	308	11.0	n. 21 w.	3,385	+ 9	0.477
10	Albany, N. Y.	s.	274	5,496	7.4	s. 42 w.	108	10.7	s. 55 w.	1,158	+ 13	0.211
11	New York, N. Y.	nw.	202	5,061	10.8	n. 52 w.	287	12.7	n. 38 w.	3,633	+ 14	0.451
13	Philadelphia, Pa.	nw.	212	7,499	10.1	n. 45 w.	248	12.2	n. 37 w.	3,022	+ 9	0.404
15	Baltimore, Md.	nw.	156	5,054	6.8	n. 59 w.	159	11.8	n. 53 w.	1,881	+ 6	0.372
16	Washington, D. C.	nw.	178	4,632	6.2	n. 56 w.	209	9.9	n. 49 w.	2,064	+ 7	0.446
17	Lynchburg, Va.	sw.	202	3,221	4.3	n. 80 w.	193	6.9	n. 63 w.	1,335	+ 17	0.414
18	Norfolk, Va.	w.	254	6,307	8.5	n. 53 w.	183	8.9	n. 65 w.	1,622	+ 12	0.257
24	Wilmington, N. C.	nw.	225	5,676	7.6	n. 40 w.	256	7.9	n. 40 w.	2,012	+ 0	0.354
26	Augusta, Ga.	nw.	226	3,296	4.4	n. 37 w.	167	7.0	n. 53 w.	1,168	+ 16	0.354
27	Savannah, Ga.	nw.	183	5,772	7.8	n. 49 w.	103	14.4	n. 57 w.	1,481	+ 8	0.257
28	Jacksonville, Fla.	ne.	189	4,922	6.6	n. 4 w.	225	5.5	n. 18 w.	1,235	+ 14	0.251
30	Key West, Fla.	ne.	336	9,500	12.8	n. 41 e.	537	14.1	n. 32 e.	7,556	+ 9	0.795
33	Atlanta, Ga.	nw.	218	7,548	10.1	w.	85	23.3	n. 81 w.	1,982	+ 9	0.263
38	Vicksburg, Miss.	n.	143	5,096	6.8	n. 46 e.	57	3.0	s. 36 w.	170	+ 170	0.033
39	New Orleans, La.	n.	192	6,547	8.8	n. 45 e.	190	10.4	n. 17 e.	1,974	+ 28	0.302
42	Little Rock, Ark.	nw.	128	5,130	6.9	n. 66 w.	73	15.8	n. 40 w.	1,151	+ 26	0.224
44	Galveston, Tex.	ne.	169	8,308	11.2	n. 83 e.	206	10.8	n. 47 e.	2,229	+ 36	0.268
48	Knoxville, Tenn.	sw.	214	3,676	4.9	s. 54 w.	100	10.6	s. 69 w.	1,063	+ 15	0.289
49	Memphis, Tenn.	nw.	148	5,488	7.4	n. 62 w.	94	11.2	n. 66 w.	1,048	+ 4	0.190
50	Nashville, Tenn.	nw.	206	4,808	6.5	n. 80 w.	166	8.1	s. 80 w.	1,338	+ 20	0.278
52	Louisville, Ky.	s.	212	6,250	8.4	s. 18 w.	217	8.6	s. 41 w.	1,868	+ 23	0.299
53	Indianapolis, Ind.	s.	166	5,621	7.6	s. 46 w.	224	7.7	s. 57 w.	1,733	+ 11	0.308
54	Cincinnati, Ohio.	se.	184	6,070	8.2	s. 14 w.	149	9.9	s. 69 w.	1,474	+ 55	0.243
55	Columbus, Ohio.	s.	164	5,378	7.2	s. 17 w.	217	6.5	s. 19 w.	1,407	+ 2	0.262
56	Pittsburg, Pa.	w.	195	5,113	6.9	s. 72 w.	309	7.1	s. 70 w.	2,182	+ 2	0.427
58	Buffalo, N. Y.	nw.	204	11,375	15.3	s. 81 w.	292	22.3	s. 87 w.	6,520	+ 6	0.573
60	Rochester, N. Y.	sw.	271	7,312	9.8	s. 61 w.	287	12.4	s. 68 w.	3,559	+ 7	0.487
62	Cleveland, Ohio.	se.	227	11,554	15.5	s. 19 w.	277	16.6	s. 22 w.	4,610	+ 3	0.399
64	Toledo, Ohio.	sw.	262	8,659	11.6	s. 75 w.	354	12.0	s. 72 w.	4,258	+ 6	0.492
65	Detroit, Mich.	sw.	330	9,471	12.7	s. 73 w.	377	14.5	s. 67 w.	5,455	+ 6	0.576
66	Alpena, Mich.	sw.	225	7,834	10.5	s. 58 w.	336	9.1	s. 65 w.	3,058	+ 7	0.390
67	Grand Haven, Mich.	sw.	201	9,808	13.2	s. 62 w.	216	17.7	s. 69 w.	3,824	+ 2	0.396
68	Marquette, Mich.	nw.	202	8,084	10.9	s. 85 w.	346	10.1	s. 83 w.	3,507	+ 2	0.434
70	Sault Ste. Marie, Mich.	se.	273	6,778	9.1	s. 27 e.	209	7.1	s. 1 e.	1,493	+ 26	0.220
71	Chicago, Ill.	sw.	233	14,151	19.0	s. 77 w.	288	21.2	s. 67 w.	6,110	+ 10	0.432
72	Milwaukee, Wis.	w.	202	8,791	11.8	s. 82 w.	402	11.4	s. 80 w.	4,583	+ 2	0.533
74	Duluth, Minn.	w.	200	4,824	6.5	n. 74 w.	306	7.4	n. 67 w.	2,257	+ 7	0.468
75	Moorhead, Minn.	s.	208	7,914	10.6	s. 78 w.	131	11.4	s. 79 w.	1,495	+ 1	0.189
77	Bismarck, N. Dak.	nw.	282	5,848	7.9	n. 44 w.	250	13.7	n. 39 w.	3,435	+ 5	0.587
79	Saint Paul, Minn.	se.	210	6,079	8.2	s. 43 w.	253	8.7	s. 69 w.	2,205	+ 26	0.363
81	Davenport, Iowa.	sw.	248	7,514	10.1	s. 67 w.	333	11.1	s. 64 w.	3,702	+ 3	0.493
82	Des Moines, Iowa.	sw.	180	6,383	8.6	n. 79 w.	271	9.4	n. 88 w.	2,539	+ 9	0.397
88	Saint Louis, Mo.	nw.	137	9,189	12.4	s. 74 w.	208	14.7	s. 67 w.	3,050	+ 7	0.332
90	Kansas City, Mo.	nw.	182	7,533	10.1	s. 59 w.	146	10.3	s. 48 w.	1,593	+ 11	0.120
92	Omaha, Nebr.	nw.	207	5,734	7.7	s. 85 w.	233	7.1	s. 87 w.	1,663	+ 2	0.290
96	Huron, S. Dak.	nw.	208	9,687	13.0	s. 70 w.	201	12.9	s. 77 w.	2,592	+ 7	0.268
98	Havre, Mont.	w.	208	6,476	8.7	n. 73 w.	303	13.1	s. 78 w.	3,967	+ 29	0.612
100	Helena, Mont.	sw.	323	3,915	5.3	s. 83 w.	460	6.3	s. 68 w.	2,881	+ 15	0.736
107	Denver, Colo.	s.	212	5,142	6.9	s. 30 w.	225	6.5	s. 40 w.	1,463	+ 10	0.284
111	Dodge City, Kans.	nw.	174	8,054	10.8	n. 34 w.	175	4.1	n. 14 w.	710	+ 20	0.088
114	Abilene, Tex.	s.	175	7,336	9.9	s. 52 w.	163	12.7	s. 66 w.	2,068	+ 14	0.282
116	El Paso, Tex.	nw.	188	8,398	11.3	n. 6 w.	209	13.4	n. 10 w.	2,798	+ 4	0.333
117	Santa Fe, N. Mex.	ne.	178	4,264	5.7	n. 67 e.	51	10.0	n. 2 w.	510	+ 69	0.120
119	Yuma, Ariz.	n.	204	3,943	5.3	n. 1 e.	320	5.9	n. 16 w.	1,886	+ 17	0.478
122	Salt Lake City, Utah.	se.	290	4,132	5.6	s. 15 e.	279	6.1	s. 12 e.	1,690	+ 3	0.409
125	Spokane, Wash.	ne.	153	4,250	5.7	n. 83 e.	239	7.0	s. 56 e.	1,474	+ 41	0.347
130	Seattle, Wash.	s.	222	4,468	6.0	s. 50 e.	218	9.5	s. 28 e.	2,064	+ 22	0.462
132	Portland, Oregon.	se.	189	8,030	10.8	s. 34 e.	252	13.7	s. 30 e.	3,450	+ 4	0.430
133	Roseburg, Oregon.	sw.	95	2,059	2.8	s. 8 w.	118	7.3	s. 4 e.	861	+ 12	0.418
137	San Francisco, Cal.	se.	224	6,704	9.0	s. 56 e.	166	14.3	s. 39 e.	2,375	+ 17	0.354
140	San Diego, Cal.	ne.	162	3,197	4.3	n. 26 e.	161	2.5	n. 13 e.	405	+ 13	0.127

TABLE IX.—Resultant winds from observations at 8 a. m. and 8 p. m., daily, during December, 1894.

Number.	Station.	Component direction from—				Resultant.		Number.	Station.	Component direction from—				Resultant.	
		N.	S.	E.	W.	Direction from—	Duration.			N.	S.	E.	W.	Direction from—	Duration.
<i>New England.</i>															
1	Eastport, Me.	Hours.	Hours.	Hours.	Hours.	°	Hours.	71	Chicago, Ill.	Hours.	Hours.	Hours.	Hours.	°	Hours.
2	Portland, Me.	23	16	6	32	n. 75 w.	27	72	Milwaukee, Wis.	16	21	8	34	s. 79 w.	26
3	Northfield, Vt.	26	13	4	35	n. 67 w.	34	73	Green Bay, Wis.	15	18	4	37	s. 85 w.	33
4	Boston, Mass.	20	39	5	19	s. 54 w.	17	74	Duluth, Minn.	12	32	2	25	s. 52 w.	33
5	Nantucket, Mass.	18	13	6	36	n. 81 w.	30			17	11	11	37	n. 77 w.	27
6	Woods Holl, Mass.	31	12	15	19	n. 12 w.	19	<i>North Dakota.</i>							
7	Block Island, R. I.	14	6	4	14	n. 51 w.	13	75	Moorhead, Minn.	22	23	10	20	s. 84 w.	10
8	New Haven, Conn.	26	8	15	29	n. 38 w.	23	76	Saint Vincent, Minn.	22	23	12	17	s. 79 w.	5
9	New London, Conn.	36	7	8	25	n. 37 w.	36	77	Bismarck, N. Dak.	29	11	12	26	n. 38 w.	23
<i>Middle Atlantic States.</i>								78	Williston, N. Dak.	15	29	9	21	s. 41 w.	18
10	Albany, N. Y.	21	27	9	13	s. 34 w.	7	<i>Upper Mississippi Valley.</i>							
11	New York, N. Y.	29	11	11	28	n. 43 w.	25	79	Saint Paul, Minn.	14	25	16	29	s. 47 w.	18
12	Harrisburg, Pa.	21	9	20	23	n. 14 w.	12	80	La Crosse, Wis.	16	35	3	15	s. 32 w.	22
13	Philadelphia, Pa.	28	12	11	28	n. 47 w.	23	81	Davenport, Iowa.	12	22	10	31	s. 65 w.	23
14	Atlantic City, N. J.	27	10	8	28	n. 50 w.	26	82	Des Moines, Iowa.	25	17	8	30	n. 70 w.	23
15	Baltimore, Md.	22	15	14	23	n. 52 w.	11	83	Keokuk, Iowa.	19	21	6	30	s. 85 w.	23
16	Washington, D. C.	28	15	11	20	n. 35 w.	16	84	Cairo, Ill.	22	26	6	16	s. 68 w.	11
17	Lynchburg, Va.	23	17	10	29	n. 72 w.	20	85	Springfield, Ill.	23	22	7	23	n. 87 w.	16
18	Norfolk, Va.	16	7	17	25	n. 42 w.	12	86	Hannibal, Mo.	17	20	7	28	s. 82 w.	21
<i>South Atlantic States.</i>								87	Saint Louis, Mo.	17	24	8	24	s. 66 w.	18
19	Charlotte, N. C.	16	21	18	23	s. 45 w.	7	<i>Missouri Valley.</i>							
20	Hatteras, N. C.	34	11	6	19	n. 29 w.	26	89	Columbia, Mo.	9	10	4	15	s. 85 w.	11
21	Kittyhawk, N. C.	27	9	20	24	n. 13 w.	18	90	Kansas City, Mo.	22	27	13	17	s. 39 w.	6
22	Raleigh, N. C.	27	16	10	23	n. 50 w.	17	91	Springfield, Mo.	22	25	11	17	s. 63 w.	7
23	Wilmington, N. C.	26	15	16	23	n. 32 w.	13	92	Omaha, Nebr.	20	21	6	29	s. 88 w.	23
24	Charleston, S. C.	24	15	22	18	n. 24 e.	10	93	Valentine, Nebr.	16	16	4	42	w.	38
25	Augusta, Ga.	29	11	16	24	n. 24 w.	20	94	Sioux City, Iowa.	24	24	9	19	w.	10
26	Savannah, Ga.	24	20	13	20	n. 60 w.	8	95	Pierre, S. Dak.	20	18	10	26	n. 83 w.	16
27	Jacksonville, Fla.	33	12	16	17	n. 3 w.	21	96	Huron, S. Dak.	18	21	11	28	s. 80 w.	17
<i>Florida Peninsula.</i>								<i>Northern Slope.</i>							
29	Jupiter, Fla.	31	8	21	20	n. 2 e.	23	98	Havre, Mont.	17	11	11	35	n. 76 w.	25
30	Key West, Fla.	40	5	31	1	n. 41 e.	46	99	Miles City, Mont.	12	34	14	20	s. 15 w.	23
31	Tampa, Fla.	40	8	18	10	n. 14 e.	33	100	Helena, Mont.	15	20	2	43	s. 83 w.	41
32	Titusville, Fla.	31	9	11	23	n. 29 w.	25	101	Rapid City, S. Dak.	10	15	5	41	s. 82 w.	36
<i>Eastern Gulf States.</i>								102	Cheyenne, Wyo.	29	10	1	37	n. 62 w.	41
33	Atlanta, Ga.	19	17	19	24	n. 68 w.	5	103	Lander, Wyo.	12	29	12	22	s. 30 w.	20
34	Pensacola, Fla.	29	19	17	14	n. 17 e.	10	104	North Platte, Nebr.	17	17	7	36	w.	29
35	Mobile, Ala.	32	19	7	13	n. 25 w.	14	<i>Middle Slope.</i>							
36	Montgomery, Ala.	26	14	17	19	n. 9 w.	12	107	Denver, Colo.	15	32	9	18	s. 28 w.	19
37	Meridian, Miss.	27	20	15	12	n. 23 e.	8	108	Pueblo, Colo.	33	10	9	27	n. 38 w.	29
38	Vicksburg, Miss.	23	19	18	14	n. 45 e.	6	109	Concordia, Kans.	17	23	8	23	s. 68 w.	16
39	New Orleans, La.	30	16	21	7	n. 45 e.	20	110	Dodge City, Kans.	28	13	13	23	n. 34 w.	18
<i>Western Gulf States.</i>								111	Wichita, Kans.	28	25	9	13	n. 53 w.	5
40	Shreveport, La.	21	23	18	13	s. 68 e.	5	112	Oklahoma, Okla.	23	29	7	14	s. 49 w.	9
41	Fort Smith, Ark.	18	11	29	14	n. 65 e.	17	<i>Southern Slope.</i>							
42	Little Rock, Ark.	23	20	12	20	n. 69 w.	8	114	Abilene, Tex.	20	27	10	16	s. 41 w.	9
43	Corpus Christi, Tex.	28	12	28	8	n. 51 e.	26	115	Amarillo, Tex.	22	29	6	15	s. 52 w.	11
44	Galveston, Tex.	24	19	26	8	n. 74 e.	19	<i>Southern Plateau.</i>							
45	Palestine, Tex.	18	24	8	22	s. 67 w.	15	116	El Paso, Tex.	22	6	25	25	n.	16
46	San Antonio, Tex.	22	16	30	9	n. 74 e.	22	117	Santa Fe, N. Mex.	25	18	26	13	n. 62 e.	15
<i>Ohio Valley and Tennessee.</i>								118	Tucson, Ariz.	15	22	18	18	s.	7
47	Chattanooga, Tenn.	19	22	14	17	s. 45 w.	4	119	Yuma, Ariz.	34	5	16	15	n. 2 e.	29
48	Knoxville, Tenn.	24	14	21	19	n. 11 e.	10	<i>Middle Plateau.</i>							
49	Memphis, Tenn.	25	20	13	16	n. 31 w.	6	121	Carson City, Nev.	14	32	12	23	s. 31 w.	21
50	Nashville, Tenn.	23	18	10	25	n. 72 w.	16	122	Winnemucca, Nev.	18	12	31	10	n. 74 e.	22
51	Lexington, Ky.	11	24	11	26	e. 49 w.	20		Salt Lake City, Utah.	9	30	24	16	s. 21 e.	22
52	Louisville, Ky.	19	11	16	19	s. 11 w.	16	<i>Northern Plateau.</i>							
53	Indianapolis, Ind.	16	28	9	24	s. 51 w.	19	123	Baker City, Oreg.	6	38	29	9	s. 32 e.	38
54	Cincinnati, Ohio	19	23	14	23	s. 66 w.	10	124	Idaho Falls, Idaho.	26	20	4	28	n. 76 w.	25
55	Columbus, Ohio	13	30	13	19	s. 19 w.	18	125	Spokane, Wash.	20	18	30	5	n. 85 e.	25
56	Pittsburg, Pa.	10	26	11	27	s. 45 w.	23	126	Walla Walla, Wash.	4	39	13	13	s.	35
57	Parkersburg, W. Va.	6	28	21	18	s. 8 e.	22	<i>North Pacific Coast Region.</i>							
<i>Lower Lake Region.</i>								127	Fort Canby, Wash.	11	14	38	10	s. 84 e.	28
58	Buffalo, N. Y.	16	20	10	32	s. 80 w.	22	129	Port Angeles, Wash.	3	42	16	13	s. 4 e.	39
59	Oswego, N. Y.	12	35	13	16	s. 7 w.	23	130	Seattle, Wash.	22	26	21	6	s. 75 e.	16
60	Rochester, N. Y.	13	26	8	30	s. 60 w.	26	131	Tatoosh Island, Wash.	4	16	44	10	s. 71 e.	36
61	Erie, Pa.	8	32	9	26	s. 35 w.	29	132	Portland, Oreg.	12	31	20	12	s. 23 e.	21
62	Cleveland, Ohio	11	27	19	25	s. 21 w.	17	133	Roseburg, Oreg.	10	22	19	21	s. 9 w.	12
63	Sandusky, Ohio	10	25	10	30	s. 53 w.	25	<i>Middle Pacific Coast Region.</i>							
64	Toledo, Ohio	16	22	6	34	s. 78 w.	29	134	Eureka, Cal.	13	23	33	12	s. 65 e.	23
65	Detroit, Mich.	12	23	8	35	s. 68 w.	29	135	Red Bluff, Cal.	27	20	12	17	n. 36 w.	9
<i>Upper Lake Region.</i>								136	Sacramento, Cal.	27	25	20	5	n. 82 e.	15
66	Alpena, Mich.	12	24	10	31	s. 60 w.	24	137	San Francisco, Cal.	18	20	23	17	s. 72 e.	6
67	Grand Haven, Mich.	16	22	14	28	s. 67 w.	15	<i>South Pacific Coast Region.</i>							
68	Marquette, Mich.	17	20	3	33	s. 84 w.	30	138	Fresno, Cal.	13	17	30	17	s. 73 e.	14
69	Port Huron, Mich.	9	26	6	36	s. 60 w.	34	139	Los Angeles, Cal.	21	2	27	20	n. 20 e.	20
70	Sault Ste. Marie, Mich.	12	24	6	18	s. 34 e.	14	140	San Diego, Cal.	24	12	22	19	n. 14 e.	12
								141	San Luis Obispo, Cal.	20	22	17	16	s. 27 e.	2

TABLE Xa.—Temperature data for selected voluntary stations, Dec., 1894.

State and station.	Normal for month.	Length of record.	Mean, Dec., 1894.	Departure from the normal.	Extreme monthly means.			
					Highest.	Year.	Lowest.	Year.
Arizona.	o	Years	o	o	o	o	o	o
Fort Apache	37.7	23	41.6	+ 3.9	45.0	1889	27.6	1891
Whipple Barracks	37.7	22	39.1	+ 1.4	42.2	1889	31.4	1891
Arkansas.								
Keesee Ferry	39.8	13	41.4	+ 1.6	55.3	1889	29.1	1884
California.								
Riverside	52.8	12	53.2	+ 0.4	56.5	1882	48.3	1891
Colorado.								
Las Animas	30.9	11	30.2	- 0.7	41.9	1889	19.5	1884
Florida.								
Merritts Island	63.5	12	64.0	+ 0.5	68.0	1891	58.0	1885
Georgia.								
Forsyth	50.2	20	51.8	+ 1.6	61.3	1889	39.8	1876
Idaho.								
Boise Barracks	33.2	19	31.2	- 2.0	37.7	1886	28.1	1884
Fort Sherman	30.9	11	29.7	- 1.2	37.9	1890	16.0	1884
Indiana.								
Lafayette	30.0	13	33.4	+ 3.4	43.8	1889	21.3	1880
Iowa.								
Cresco	17.7	23	26.4	+ 8.7	34.0	1877	4.5	1876
Kansas.								
Eureka Ranch	32.9	11	29.6	- 3.3	43.6	1889	21.3	1884
Independence	35.3	22	37.2	+ 1.9	49.3	1889	25.4	1884
Salina	32.8	11	.....	.....	44.4	1889	23.2	1885
Louisiana.								
Grand Coteau	56.0	12	56.1	+ 0.1	65.0	1889	51.8	1887
Maine.								
Orono	21.0	24	21.4	+ 0.4	31.6	1891	11.4	1890
Maryland.								
Cumberland	32.2	23	33.0	+ 0.8	43.2	1889	26.0	1880
Michigan.								
Kalamazoo	29.4	18	32.6	+ 3.2	40.2	1889	16.7	1876
Missouri.								
Sedalia	36.2	9	.....	.....	49.4	1889	25.7	1886
Montana.								
Fort Custer	23.9	14	.....	.....	33.1	1885	5.6	1884
Nebraska.								
Fort Robinson	28.8	10	29.8	+ 1.0	38.0	1889	12.4	1884
Genoa (near)	23.8	19	30.7	+ 6.9	35.4	1889	11.8	1879
Nevada.								
Carson City	34.2	17	29.3	- 4.9	40.8	1886	29.1	1891
New Hampshire.								
Hanover	20.7	23	23.1	+ 2.4	30.5	1881	10.2	1872
New Mexico.								
Fort Wingate	33.0	23	35.2	+ 2.2	41.0	1889	23.7	1887
New York.								
Cooperstown	26.9	23	27.3	+ 0.4	33.9	1891	14.7	1876
Plattsburg Barracks	21.6	23	24.2	+ 2.6	33.8	1891	11.3	1890
North Carolina.								
Lenoir	38.5	22	38.7	+ 0.2	48.9	1889	29.1	1876
Oklahoma.								
Fort Reno	40.0	11	39.7	- 0.3	52.6	1889	27.9	1884
Fort Sill	40.5	22	42.8	+ 2.3	52.3	1889	31.0	1884
Fort Supply	37.6	14	.....	.....	49.2	1889	29.9	1887, 1892
Oregon.								
Bandon	46.8	10	44.8	- 2.0	52.5	1888	43.6	1884
Pennsylvania.								
Dyberry	25.6	23	26.8	+ 1.2	34.6	1891	17.3	1876
Gramplan	26.0	23	28.8	+ 2.8	37.0	1877	16.0	1876
Wellsboro	29.4	15	28.2	- 1.2	39.5	1881	22.2	1890
South Carolina.								
Statesburg	48.0	13	48.7	+ 0.7	56.6	1889	43.6	1882
South Dakota.								
Fort Sully	19.2	23	.....	.....	30.0	1881	2.9	1879
Texas.								
Austin	50.5	22	50.8	+ 0.3	65.5	1889	42.1	1872
Silver Falls	45.2	8	44.7	- 0.5	56.1	1889	37.6	1892
Utah.								
Terrace	28.1	22	24.8	- 3.3	37.0	1888	17.0	1878
Vermont.								
Strafford	21.9	21	22.4	+ 0.5	31.2	1891	13.4	1890
Virginia.								
Dale Enterprise	38.2	14	35.0	- 3.2	49.0	1889	28.4	1882
Washington.								
Fort Townsend	41.1	19	35.4	- 5.7	45.6	1893	33.0	1884
Wisconsin.								
Madison	22.9	22	29.0	+ 6.1	38.4	1877	10.8	1876
Wyoming.								
Fort Washakie	23.3	11	20.4	- 2.9	29.6	1889	16.4	1892

TABLE Xb.—Precipitation data for selected voluntary stations, Dec., 1894.

State and station.	Normal for month.	Length of record.	Total, Dec., 1894.	Departure from the normal.	Extremes.			
					Greatest.		Least.	
					Am't.	Year.	Am't.	Year.
Arizona.	Inches.	Years	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
Fort Apache	1.56	18	2.81	+ 1.25	5.52	1884	0.08	1882
Whipple Barracks	1.74	22	3.43	+ 1.69	7.38	1889	0.00	.....
Arkansas.								
Keesee Ferry	3.20	13	2.40	- 0.80	11.37	1884	1.15	1889
California.								
Riverside	2.00	14	5.18	+ 3.18	6.87	1889	0.17	1886
Colorado.								
Las Animas	0.43	12	1.15	+ 0.72	1.68	1883	0.00	1889
Florida.								
Merritts Island	2.46	16	1.30	- 1.16	8.55	1888	0.00	1889
Georgia.								
Forsyth	4.26	20	4.75	+ 0.49	7.56	1887	0.79	1889
Idaho.								
Boise Barracks	2.10	21	1.98	- 0.12	5.96	1877	0.01	1877
Fort Sherman	3.45	11	1.30	- 2.15	5.85	1889	1.30	1894
Indiana.								
Lafayette	2.56	14	2.33	- 0.23	6.27	1884	0.23	1890
Iowa.								
Cresco	1.40	23	1.07	- 0.33	3.44	1891	0.30	1874
Kansas.								
Eureka Ranch	0.69	11	1.33	+ 0.64	1.61	1884	0.00	1889
Independence	2.13	22	1.82	- 0.31	5.17	1879	0.49	1893
Salina	0.84	11	.....	.....	2.52	1892	T.	1889, 1890
Louisiana.								
Grand Coteau	5.20	11	1.44	- 3.76	14.43	1884	1.44	1894
Maine.								
Orono	3.92	24	1.75	- 2.17	7.92	1878	1.50	1875
Maryland.								
Cumberland	2.17	23	2.63	+ 0.46	4.50	1881	0.70	1871
Michigan.								
Kalamazoo	2.76	18	1.08	- 1.68	7.14	1884	1.08	1894
Missouri.								
Sedalia	1.94	16	.....	.....	4.77	1884	0.53	1886
Montana.								
Fort Custer	0.79	14	0.40	- 0.39	1.87	1883	0.09	1885
Nebraska.								
Fort Robinson	0.72	11	0.44	- 0.28	1.97	1883	0.01	1890
Genoa (near)	0.89	19	0.97	+ 0.08	2.04	1893	0.00	1875, 1890
Nevada.								
Carson City	2.09	17	3.23	+ 1.14	5.43	1891	0.00	1876
New Hampshire.								
Hanover	2.55	23	2.45	- 0.10	4.69	1878	0.78	1875
New Mexico.								
Fort Wingate	0.90	23	2.32	+ 1.42	2.32	1894	0.10	1886
New York.								
Cooperstown	2.70	23	2.33	- 0.37	6.02	1881	0.97	1877
Plattsburg Barracks	1.96	23	2.55	+ 0.59	3.92	1893	0.17	1886
North Carolina.								
Lenoir	3.48	20	6.21	+ 2.73	8.70	1877	0.50	1889
Oklahoma.								
Fort Reno	1.42	11	0.10	- 1.32	4.40	1892	0.00	1886
Fort Sill	1.72	22	0.65	- 1.07	4.07	1874	0.00	1889
Fort Supply	0.73	14	.....	.....	3.19	1885	0.00	1886, 1889
Oregon.								
Bandon	11.52	16	16.13	+ 4.61	17.17	1892	4.93	1878
Pennsylvania.								
Dyberry	2.77	23	3.89	+ 1.12	5.29	1890	1.20	1874
Gramplan	3.62	17	3.85	+ 0.23	5.15	1891	1.36	1892
Wellsboro	4.34	15	4.07	- 0.27	9.57	1881	0.40	1892
South Carolina.								
Statesburg	2.90	13	2.90	0.00	5.87	1884	0.75	1889
South Dakota.								
Fort Sully	0.48	23	.....	.....	2.48	1877	0.00	1881
Texas.								
Austin	2.98	21	0.00	- 2.98	9.00	1891	0.00	1894
Silver Falls	0.71	7	T.	- 0.71	2.03	1891	0.00	1889
Utah.								
Terrace	0.74	21	0.96	+ 0.22	2.12	1877	0.00	1874, 1878
Vermont.								
Strafford	3.28	21	3.00	- 0.28	5.90	1878	0.15	1875
Virginia.								
Dale Enterprise	2.63	14	2.45	- 0.18	6.81	1881	0.13	1882
Washington.								
Fort Townsend	2.82	20	3.55	+ 0.73	5.34	1891	1.14	1879
Wisconsin.								
Madison	1.98	22	0.67	- 1.31	5.73	1884	0.45	1874
Wyoming.								
Fort Washakie	0.48	11	0.00	- 0.48	2.29	1886	0.00	1890, 1894

*Frequently.

TABLE XI.—Thunderstorms and auroras, December, 1894.

States.	No. of stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total.		
Alabama	50								1		6	8	3																				18		
Arizona	49																																1		
Arkansas	39	1	2							4															1								8		
Colorado	85																																0		
California	330					4	1		2			1									1	3	1				1					13			
Connecticut	22																																0		
Delaware	7												2																				2		
District of Columbia	4																																0		
Florida	35						1				1	15	11																				28		
Georgia	50										6	8	7										7										21		
Idaho	26																																0		
Illinois	60	4						1	4	1																							10		
Indiana	40								10		1	2	1	2																			13		
Indian Territory	6																																0		
Iowa	84																																	0	
Kansas	73	2		1						1						1	1																1		
Kentucky	42								2		1	3	3																				6		
Louisiana	47		2	3	1				3	9	5	6															1						30		
Maine	15																																0		
Maryland	35												3																				3		
Massachusetts	83																																0		
Michigan	80						1		9																								1		
Minnesota	65																																	10	
Mississippi	47		1							3	4	4															1						13		
Missouri	98	12	2				1	1	7	3																8	1						35		
Montana	30																																	0	
Nebraska	120					1																												0	
Nevada	46																																	0	
New Hampshire	25						2	1																			1							4	
New Jersey	60												5																					5	
New Mexico	27																																	0	
New York	86												2																					2	
North Carolina	54										8	12	15														1	1	6					43	
North Dakota	38																																	1	
Ohio	147							1	32				1																					34	
Oklahoma	16	1								1																								2	
Oregon	63									2																								3	
Pennsylvania	84												5				1																	7	
Rhode Island	8																																	0	
South Carolina	37																																	16	
South Dakota	44																																	0	
Tennessee	39																																	2	
Texas	82			1							5	1																						7	
Utah	39																																	1	
Vermont	15																																	0	
Virginia	40												3	3																				9	
Washington	51																																	1	
West Virginia	40									4																								4	
Wisconsin	66																																		0
Wyoming	11																																		0
Sums	2,740	T. A.	20	7	4	1	0	9	5	73	31	38	67	66	0	1	1	2	1	0	0	9	4	1	0	9	6	10	1	0	1	0	367	T. A.	
			0	0	1	1	1	2	1	2	1	2	0	0	0	3	1	1	0	3	2	1	3	0	2	2	0	1	1	2	1	1	1	35	A.

TABLE XII.—Climatological data from the monthly reports of the State Weather Services, December, 1894.

State.	Temperature.				Precipitation.				Director.	
	Mean departure.	Maximum.	Monthly ranges.		Mean departure.	Maximum.	Minimum.	Amount.		
			Station.	Date.						Station.	Date.
Alabama.....	+1.6	81	Station.	Station.	Inches	Station.	Station.	Inches	F. P. Chaffee.	
Alaska.....	+0.4	86	Marion	Citronelle	+0.14	76	Jasper	Ozanna	0.75	Not yet organized.
Arizona.....	+5.1	85	Buckeye	Peoria	+0.89	59	Buckeye	Flagstaff	0.40	W. Burrows.
Arkansas.....	+5.0	82	Dee Branch	Pocahontas	-0.96	81	Pocahontas	Helena	1.45	F. H. Clarke.
California.....	-5.7	80	Florence	Greenville	+5.01	49	Yreka	Forcyce Dam	1.03	J. A. Barwick.
Colorado.....	-2.3	78	Las Animas	Crook	-0.38	102	Las Animas	Ruby	T.	F. H. Brandenburg.
Connecticut.....	+0.1	87	N. Grosvenor Dale	N. Grosvenor Dale	+0.46	63	N. Grosvenor Dale	New Haven	1.33	J. W. Allen Smith.
Delaware.....	+0.1	88	Seaford	Newark	-0.46	59	Seaford	Wilmington	2.37	C. P. Cronk.
District of Columbia.....	+0.4	86	Kissimmee	Tallahassee	-2.49	70	Archer	Moseley Hall	0.09	See Maryland.
Florida.....	+2.0	81	Darien	Toccoa	-0.06	72	Brag	Toccoa	0.40	E. R. Demast.
Georgia.....	+5.0	81	Idaho City	Chesterfield	-0.25	78	Paris	Golconda	0.35	George E. Hunt.
Idaho.....	+2.4	86	Huntingburg	Marengo	+0.13	74	Marengo	Marengo	0.33	D. F. McCallum.
Illinois.....	+0.9	85	Knoxville	Rock Rapids	-0.70	78	Knoxville	Decorah	0.25	Prof. W. L. Moore.
Indiana.....	+0.3	89	Bowling Green	Sandy Hook	+0.05	100	Kiowa	Blaine	2.44	See Oklahoma.
Iowa.....	+0.4	85	Portland	Sugartown	-0.72	76	Liberty Hill	Dalhart	0.50	J. R. Sage.
Kansas.....	+0.2	74	Denton	Deer Park	-0.34	75	Sunnyside	Sunnyside	1.75	T. B. Jennings.
Kentucky.....	+0.5	80	Tannton	Deer Lodge City	+0.14	79	Deer Lodge City	Provincetown	0.31	Frank Burk.
Louisiana.....	+3.8	77	Weeping Water	Agassiz	-0.31	81	Elko	Sault Ste. Marie	0.70	R. E. Kerkam.
Maine.....	+4.6	84	Golconda	Stofel	+0.53	87	Tyoo	Two Harbors	0.44	J. Warren Smith.
Massachusetts.....	+1.8	86	West Milan	West Milan	-0.08	89	West Milan	Briers	0.60	C. P. Cronk.
Michigan.....	+2.8	72	Lebanon	Unionville	-0.03	80	New Boston	Gordonville	T.	J. Warren Smith.
Minnesota.....	+3.8	77	Hillings	Deer Lodge City	+0.14	79	Virginia City	Troy	0.07	K. M. Crawford.
Mississippi.....	+4.6	84	Weeping Water	Agassiz	-0.31	81	Elko	Callaway	0.00	Prof. G. D. Swezey.
Missouri.....	+2.2	80	Golconda	Stofel	+0.53	87	Tyoo	Hawthorne	0.44	Prof. C. W. Friend.
Montana.....	+3.8	77	West Milan	West Milan	-0.08	89	West Milan	Wolfboro	1.59	J. Warren Smith.
Nebraska.....	+2.3	86	Whiting	River Vale	+0.74	65	Somerville	Toms River	1.64	E. W. McGann.
Nevada.....	+1.0	87	Eddy	Halls Peak	-0.24	44	Calistoga	Chama	T.	H. B. Hersey.
New Hampshire.....	+8.6	70	Marlboro	Carleton	-0.47	95	Carleton	Fort Jervis	0.93	Prof. E. A. Fierste.
New Jersey.....	+1.3	70	Southern Pines	Highlands	-0.47	96	Southern Pines	Fiat Rock	0.72	Dr. H. B. Battle.
New Mexico.....	+5.8	85	Napoleon	Woodbridge	-0.08	95	Napoleon	Churchs Ferry	T.	B. H. Bronson.
New York.....	+1.2	88	Celina	Coalton	+0.48	92	New Waterford	New Alexandria	1.18	L. N. Bonham.
North Carolina.....	+5.8	85	Sacand Fox Agency	Alva	-1.79	87	Alva	Purcell	0.10	J. I. Widmeyer.
North Dakota.....	+0.4	66	Lycippus	Wellisboro	+0.77	86	Wellisboro	Confuence	2.27	W. P. Tatham.
Ohio.....	+1.2	88	Pawtucket	Providence	+1.50	51	Providence	Kingston	5.21	J. Warren Smith.
Oklahoma.....	+0.9	85	Trial	Flint Hill	-0.86	74	Trial	Central	0.43	J. W. Bauer.
Oregon.....	+7.7	72	Rapid City	Ashcroft	-0.50	95	Ashcroft	Vermillion	T.	S. W. Glenn.
Pennsylvania.....	+0.5	75	Lynnville	Bristol	+1.01	61	Bristol	Nashville	2.81	J. B. Marbury.
Rhode Island.....	+0.7	80	Midland	Harley	-1.45	83	Harley	Austin	0.00	D. D. Bryan.
South Carolina.....	+8.2	65	Cisco	Koonsham	-0.03	22	Fort DuChesne	Soldiers Summit	0.50	J. H. Smith.
South Dakota.....	+0.7	83	Cornwall	Woodstock	-0.23	59	Woodstock	Irasburg	1.91	J. Warren Smith.
Tennessee.....	+3.9	82	Callville	Hot Springs	-0.23	72	Date Enterprise	Big Stone Gap	1.52	Dr. E. A. Craighill.
Texas.....	+3.0	80	Walla Walla	Waterville	-1.59	11	Tatoost Island	Neah Bay	0.55	G. N. Salisbury.
Utah.....	+3.5	80	Morgantown	Watersboro	-0.97	96	Morgantown	Beverly	2.31	W. W. Dent.
Vermont.....	+1.0	80	Onkosh	Menomonie	-0.97	71	Menomonie	New Holstein	0.20	S. C. Emery.
Virginia.....	+1.3	84	Fort Laramie	Saratoga	-0.23	82	Fort Laramie	Sundance	0.00	E. M. Ravenscraft.
Washington.....	+1.3	84	Fort Laramie	Saratoga	-0.23	82	Fort Laramie	Sundance	0.00	
West Virginia.....	+1.3	84	Fort Laramie	Saratoga	-0.23	82	Fort Laramie	Sundance	0.00	
Wisconsin.....	+1.3	84	Fort Laramie	Saratoga	-0.23	82	Fort Laramie	Sundance	0.00	
Wyoming.....	+1.3	84	Fort Laramie	Saratoga	-0.23	82	Fort Laramie	Sundance	0.00	

* Two or more days. † At other points in the State.

