Table of miscellaneous meteorological data for October, 1888—Signal Service observations.

Stations and districts.	Elevation above sea-level, feet.	Atmospheric pressure, in inches and hundredths: Mean actual barometer.	Departure from normal.	Mean reduced barometer.	Extremes: Highest barometer.	Date.	Lowest barometer.	Date.	Monthly range of barometer.	Temperature of the air, in degrees Fahrenheit: Monthly mean. (8 a.m. and 8 p.m.)	Departure from normal.*	Extremes: Max.	Date.	Mean max.	Min.	Date.	Mean min.	Monthly range.	Daily ranges: Greatest.	Date.	Least.	Date.	Mean relative humidity, per cent.	Mean temperature of dew-point, degrees Fahrenheit.	Precipitation, in inches.	Departure from normal precipitation, in inches.	Winds: Total movement, miles.	Prevailing direction.	Maximum velocity: Miles p. h.	Direction.	Date.	No. of rainy days.	No. of cloudy days.	No. of fair days.	No. of clear days.
New England.										46.6	− 4.8														4.77	+ 0.66									
Eastport	53	29.80	−.15	29.86	30.51	26	29.08	8	1.43	43.4	− 3.3	62.3	7	49.0	31.0	15	38.4	31.3	16.3	15	3.5	13	80.4	37.3	7.95	+ 3.44	7,562	nw.	34	e.	13	15	17	8	6
Portland	99	29.78	−.15	29.89	30.50	26	29.26	8	1.24	43.3	− 5.6	61.0	5	49.9	28.8	23	36.8	32.2	28.0	5	3.9	6	82.4	38.0	7.47	+ 3.75	6,078	nw.	29	nw.	28	15	19	5	7
Manchester	247	29.67	....	29.93	30.52	26	29.34	8	1.18	42.7	....	66.7	5	51.3	26.4	1	36.8	40.3	25.1	31	3.3	6	76.7	35.4	5.47	....	4,651	nw.	30	nw.	8	17	14	12	5
Northfield	871	28.98	....	29.94	30.48	26	29.44	2	1.04	38.0	....	61.5	31	46.1	22.5	23	32.0	39.0	37.5	31	2.5	29	86.8	34.1	3.53	....	6,497	s.	42	n.	24	17	25	3	3
Boston	125	29.80	−.13	29.94	30.52	26	29.34	8	1.18	47.1	− 4.3	69.0	5	54.3	33.8	22	41.1	35.2	23.5	31	2.5	14	71.6	37.8	3.58	− 0.54	8,301	nw.	37	w.	29	13	15	9	7
Nantucket	14	29.92	....	29.93	30.46	26	29.34	8	1.12	48.8	....	64.0	5	55.3	35.0	22	43.6	29.0	21.0	22	5.0	3	85.5	44.6	4.99	....	8,615	nw.	33	nw.	24	13	13	6	12
Wood's Holl	22	29.92	....	29.94	30.46	26	29.37	8	1.09	48.6	....	62.8	6	54.3	34.2	22	44.0	28.6	20.2	1	4.5	24	78.5	41.8	3.61	+ 0.41	13,001	nw.	48	w.	29	10	13	9	9
Vineyard Haven	....	....	....	....	....	..	....	..	....	50.4	....	69.0	7	57.8	33.0	22	43.1	36.0	25.0	5	7.0	2	....	....	5.40	....	....	nw.	....	....	..	12	..	..	..
Block Island	26	29.92	−.16	29.95	30.46	26	29.41	8	1.05	49.7	− 5.3	62.3	7	54.7	34.1	22	44.7	28.2	17.6	19	3.5	2	79.8	43.6	2.37	− 2.36	13,104	nw.	52	e.	12	14	12	6	13
Narragansett Pier	22	....	....	....	....	..	....	..	....	47.8	....	65.0	7	55.9	28.0	22	39.7	37.0	24.0	4	6.0	24	....	....	2.98	− 1.60	....	nw.	....	....	..	16	..	..	..
New Haven	107	29.84	−.12	29.96	30.46	26	29.47	2	0.99	46.4	− 5.4	66.2	5	55.2	29.6	31	40.1	36.6	25.9	31	1.6	14	81.5	40.7	6.46	+ 2.76	5,366	nw.	28	nw.	24	15	13	10	8
New London	47	28.89	−.14	29.94	30.45	26	29.41	8	1.04	49.4	− 4.7	65.2	2	56.2	32.0	22	42.4	33.2	26.0	1	5.5	14	75.7	41.7	3.77	− 0.58	5,622	nw.	36	ne.	12	14	9	15	7
Mid. Atlantic States.										50.6	− 6.1														3.78	+ 0.66									
Albany	85	29.86	−.12	29.96	30.45	26	29.45	1	1.00	44.5	− 6.4	65.0	5	52.9	30.5	11	38.4	34.5	26.0	31	5.0	21	80.8	38.8	6.10	+ 2.95	3,688	nw.	34	w.	24	16	16	13	2
New York City	185	29.78	−.12	29.98	30.43	26	29.49	1	0.94	49.2	− 5.8	68.7	5	58.5	34.9	22	43.9	33.8	24.5	31	5.1	14	72.4	40.3	4.14	+ 0.84	8,127	w.	50	w.	24	15	11	18	2
Philadelphia	117	29.88	−.10	30.00	30.41	31	29.49	1	0.92	50.4	− 6.4	69.5	5	58.9	34.8	22	44.4	34.7	24.8	31	8.4	24	71.8	41.0	3.23	+ 0.48	7,778	nw.	44	ne.	12	16	12	10	9
Atlantic City	34	29.96	−.10	29.99	30.42	31	29.53	1	0.89	51.4	− 6.8	71.0	2	59.1	30.0	22	43.4	41.0	24.2	3	7.5	6	78.0	44.6	3.48	+ 0.24	8,138	w.	36	w.	24	11	9	11	11
Baltimore	45	29.96	−.10	30.00	30.40	31	29.51	1	0.89	51.4	− 6.3	73.8	19	60.2	36.0	22	45.2	37.8	25.4	16	4.5	26	68.8	41.0	2.99	+ 0.14	4,626	nw.	30	sw.	1	15	12	11	8
Washington City	103	29.91	−.09	30.03	30.42	30	29.55	1	0.87	50.5	− 5.4	75.0	19	60.9	35.2	22	44.3	39.8	27.8	31	5.0	26	76.8	43.1	3.27	+ 0.19	3,823	nw.	24	nw.	24	16	13	7	11
Cape Henry	....	....	....	....	....	..	....	..	....	57.8	....	76.4	6	65.2	43.0	22	50.5	33.4	24.0	1	4.0	26	....	....	2.48	− 1.29	....	nw.	....	....	..	13	..	..	..
Lynchburgh	658	29.34	−.08	30.05	30.45	31	29.64	2	0.81	50.8	− 6.0	78.0	19	65.6	32.7	10	42.3	45.3	35.3	17	6.3	26	73.4	41.8	4.41	+ 1.30	2,941	s.	22	nw.	8	12	6	16	9
Norfolk	69	29.97	−.11	30.04	30.45	31	29.48	11	0.97	55.8	− 5.9	75.8	6	65.1	40.8	22	49.1	35.0	26.2	1	5.8	26	79.0	49.2	3.94	+ 0.23	6,391	se.	36	s.	1	16	9	10	12
Harrisburg	361	29.61	....	30.00	30.39	31	29.44	1	0.95	47.6	....	69.0	1	55.5	34.9	31	42.2	34.1	27.2	5	6.4	24	75.6	39.7	2.04	....	5,534	nw.	30	nw.	24	16	16	7	8
S. Atlantic States.										61.6	− 3.5														5.77	+ 1.31									
Charlotte	808	29.22	−.04	30.07	30.42	31	29.51	11	0.91	54.3	− 4.7	78.0	17	67.5	37.0	21	47.1	41.0	36.5	1	5.3	26	82.1	48.6	5.87	+ 2.11	3,171	sw.	26	n.	11	11	10	4	17
Hatteras	11	30.06	−.02	30.08	30.45	31	29.65	11	0.80	60.8	− 5.8	76.0	11	66.4	48.2	22	56.1	27.8	23.0	11	4.6	7	79.3	54.2	3.99	− 2.86	9,570	n.	40	nw.	20	8	6	8	17
Kitty Hawk	....	....	....	....	....	..	....	..	....	60.2	....	78.6	2	68.9	42.9	21	51.4	35.7	26.6	1	6.3	26	....	....	5.42	+ 1.33	....	nw.	....	....	..	11	..	..	..
Raleigh	375	29.65	....	30.05	30.42	31	29.60	11	0.82	55.2	....	77.0	19	65.6	33.3	22	46.1	43.7	33.5	23	8.0	27	73.9	46.6	4.31	....	3,830	sw.	30	ne.	11	10	12	4	15
Southport	....	....	....	....	....	..	....	..	....	62.9	....	77.4	6	71.0	42.0	15	54.8	35.4	27.0	21	4.0	27	....	....	6.98	+ 2.00	....	sw.	....	....	..	7	..	..	..
Wilmington	52	29.99	−.06	30.05	30.38	31	29.45	11	0.93	59.7	− 3.4	79.2	6	70.8	44.7	15	54.3	34.5	25.7	19	6.8	25	81.6	53.9	5.65	+ 1.62	4,747	ne.	60	ne.	11	13	11	7	13
Charleston	52	30.01	−.04	30.06	30.32	31	29.37	11	0.95	64.2	− 2.0	81.1	17	73.2	50.2	21	58.7	30.9	20.6	17	5.2	25	80.0	57.6	4.83	+ 0.30	6,023	sw.	48	ne.	11	13	9	7	15
Columbia	....	....	....	....	....	..	....	..	....	59.0	....	82.5	6	70.8	42.5	21	51.5	40.0	29.5	1	7.0	26	79.4	52.1	4.29	....	....	....	....	....	..	10	8	8	15
Augusta	183	29.89	−.04	30.08	30.37	31	29.57	11	0.80	58.0	− 3.8	83.6	19	73.0	41.6	4	51.4	42.0	32.2	1	3.9	26	84.0	52.9	6.37	+ 3.98	2,671	w.	36	n.	11	11	11	5	15
Savannah	87	29.97	−.04	30.06	30.31	31	29.50	11	0.81	63.5	− 2.4	82.3	26	74.2	49.0	1	57.0	33.3	26.0	19	7.9	27	80.0	56.9	6.81	+ 3.02	4,654	w.	50	ne.	11	8	9	5	17
Jacksonville	43	30.01	−.02	30.06	30.27	18	29.64	10	0.63	67.5	− 2.1	86.0	23	78.9	49.9	1	60.9	36.1	25.1	1	7.0	10	83.0	62.0	6.00	+ 0.27	3,957	ne.	38	n.	11	10	4	13	14
Florida Peninsula.										74.8	− 1.0														2.92	− 1.44									
Titusville	12	30.04	....	30.05	30.26	18	29.65	10	0.61	72.5	....	87.5	28	80.4	53.0	13	65.0	34.5	24.4	20	6.0	29	83.8	67.2	3.75	....	5,765	se.	28	s.	10	8	7	6	18
Cedar Keys	22	30.02	−.01	30.04	30.26	18	29.46	10	0.80	70.0	− 1.4	82.6	21	77.3	56.0	15	65.8	26.6	21.1	30	4.1	27	80.8	63.4	2.43	− 0.58	6,069	ne.	75	s.	10	8	9	1	21
Key West	22	30.00	+.03	30.02	30.17	18	29.75	10	0.42	79.1	− 0.6	85.4	8	82.4	65.6	10	74.5	19.8	18.8	10	4.5	7	80.9	72.6	3.42	− 2.30	6,981	e.	36	sw.	11	12	10	7	14
Jupiter	28	30.00	....	30.03	30.19	18	29.72	10	0.47	76.5	....	86.1	26	82.4	61.2	13	71.1	24.9	20.2	9	5.4	31	80.2	69.7	3.78	....	6,422	se.	26	se.	10	6	5	9	17
Micco	....	....	....	....	....	..	....	..	....	73.9	....	89.0	28	82.0	53.0	13	65.8	36.0	26.8	13	8.1	5	....	....	4.95	....	....	e.	....	....	..	10	..	..	..
Eastern Gulf States.										63.4	− 3.0														4.11	+ 1.03									
Atlanta	1,129	28.89	−.06	30.08	30.34	31	29.64	11	0.70	55.8	− 4.8	79.2	19	66.6	40.5	21	49.8	38.7	25.0	29	3.6	25	77.0	48.1	3.99	+ 1.44	6,494	nw.	35	w.	13	10	9	9	13
Pensacola	56	29.98	−.07	30.04	30.28	29	29.74	10	0.54	67.2	− 2.0	83.0	6	76.3	51.4	8	61.8	31.6	24.1	8	4.0	10	80.0	60.7	2.49	− 1.20	6,560	ne.	30	se.	25	7	8	5	18
Mobile	35	30.02	−.03	30.06	30.32	29	29.78	10	0.54	65.2	− 2.5	86.0	6	76.4	48.0	4	58.6	38.0	30.0	4	7.8	22	83.5	59.8	2.48	− 0.91	4,718	n.	24	nw.	7	11	7	15	9
Montgomery	217	29.82	−.05	30.05	30.31	29	29.73	11	0.58	62.3	− 3.9	84.3	6	74.0	43.0	21	54.2	41.3	30.8	4	5.5	11	74.4	53.4	5.39	+ 2.98	3,204	n.	18	w.	12	8	9	7	15
Vicksburg	222	29.81	−.07	30.05	30.33	29	29.82	11	0.51	62.0	− 3.4	85.3	17	73.9	44.0	29	55.4	41.3	29.5	30	2.8	23	78.0	54.4	2.97	− 0.21	3,655	se.	15	e.	4	8	13	12	6
University	....	....	....	....	....	..	....	..	....	60.6	....	80.8	18	70.0	41.5	21	51.3	39.3	27.6	20	8.0	22	....	....	1.60	....	....	nw.	....	....	..	12	..	..	..
New Orleans	52	29.97	−.04	30.03	30.29	29	29.79	10	0.50	68.0	− 1.2	87.0	16	78.9	54.7	12	62.7	32.3	23.0	15	5.8	24	79.3	61.0	7.36	+ 4.10	5,349	n.	26	w.	11	7	6	8	17
Auburn	....	....	....	....	....	..	....	..	....	62.2	....	81.0	6	70.9	43.0	21	53.5	38.0	26.0	15	8.0	25	....	....	4.39	....	....	nw.	....	....	..	9	..	..	..
Port Eads	....	30.00	....	....	....	..	....	..	....	73.5	....	81.4	6	78.8	58.2	12	68.2	23.0	17.8	12	7.7	8	79.2	65.3	3.93	....	....	ne.	....	....	..	10	10	14	6
Western Gulf States.										64.9	− 1.6														2.78	− 0.72									
Shreveport	249	29.78	−.07	30.04	30.33	29	29.82	26	0.51	63.4	− 2.4	87.4	17	75.6	43.5	29	55.7	43.9	34.8	29	3.5	22	77.2	55.4	2.73	− 0.94	4,314	s.	30	nw.	11	8	7	10	14
Fort Smith	470	29.55	−.03	30.05	30.34	29	29.77	26	0.57	56.2	− 4.1	84.5	18	71.4	34.0	24	48.4	50.5	37.6	29	5.5	21	74.0	47.2	3.57	+ 0.08	3,454	se.	18	w.	1	9	6	4	21
Little Rock	309	29.73	−.04	30.06	30.33	29	29.83	26	0.50	57.0	− 6.2	82.5	1	67.8	37.0	24	49.7	45.5	32.6	29	3.4	6	77.1	49.2	2.39	− 0.25	3,469	nw.	24	nw.	15	12	11	6	14
Corpus Christi	20	29.99	−.06	30.01	30.24	29	29.82	21	0.42	72.6	− 1.2	85.3	10	78.5	50.0	23	67.2	35.3	21.8	10	4.0	23	84.8	67.6	2.91	....	7,908	se.	36	ne.	2	4	3	15	13
Galveston	44	29.98	−.05	30.02	30.26	29	29.84	21	0.42	72.2	+ 0.1	85.0	6	77.4	53.8	24	68.8	31.2	15.2	11	4.4	22	79.0	65.0	5.67	+ 0.44	8,248	s.	40	ne.	23	8	7	11	13
Palestine	511	29.51	−.03	30.06	30.33	29	29.85	26	0.48	65.4	+ 1.0	90.2	17	79.8	36.7	24	56.2	53.5	40.1	29	8.1	22	82.4	59.6	1.51	− 2.24	4,147	s.	22	s.	15	6	7	8	16
San Antonio	781	29.22	−.03	30.03	30.29	29	29.86	25	0.43	67.2	+ 1.4	87.6	17	80.6	40.0	25	60.2	47.6	37.6	25	6.8	8	77.2	59.0	0.82	− 1.42	5,503	se.	25	s.	21	8	12	10	9
Rio Grande Valley.										72.5	+ 0.8														1.81	− 2.06									
Rio Grande City	230	29.81	−.05	30.05	30.30	29	29.85	21	0.45	72.1	+ 1.3	93.8	21	86.0	52.6	25	66.6	41.2	28.4	25	2.2	23	86.2	67.0	1.57	− 0.55	3,787	se.	23	se.	18	8	16	6	9
Brownsville	57	29.94	−.04	30.00	30.22	29	29.84	21	0.38	72.9	+ 0.4	88.0	5	83.9	52.0	24	69.0	36.0	29.2	25	8.4	23	88.6	69.4	2.05	− 3.56	5,657	s.	26	s.	21	10	5	7	19
Ohio Val. & Tenn.										51.8	− 5.6														3.86	+ 0.89									
Chattanooga	783	29.24	−.07	30.07	30.36	31	29.71	11	0.65	55.2	− 4.7	82.2	19	67.5	36.6	21	47.1	45.6	34.3	18	6.8	12	80.6	48.9	5.17	+ 1.91	3,887	w.	23	sw.	19	13	9	9	13
Knoxville	980	29.03	−.08	30.08	30.37	31	29.73	11	0.64	52.1	− 6.3	78.1	19	63.7	35.6	21	45.7	42.5	33.7	18	3.8	12	78.4	45.0	6.11	+ 3.02	4,060	w.	30	sw.	1	16	10	8	13
Memphis	320	29.71	−.06	30.05	30.33	29	29.81	11	0.52	56.9	− 5.0	82.6	18	67.6	40.0	21	50.5	42.6	30.5	29	3.2	23	77.1	49.2	3.51	+ 0.18	3,942	n.	24	sw.	1	10	14	3	14
Nashville	549	29.46	−.06	30.04	30.32	29	29.74	1	0.58	53.9	− 5.6	80.7	18	65.5	36.0	21	47.3	44.7	35.5	18	3.9	12	77.9	46.3	2.82	+ 0.02	4,329	nw.	24	se.	15	14	11	9	11
Louisville	551	29.44	−.08	30.03	30.36	21	29.60	1	0.76	52.5	− 6.0	77.4	1	63.4	32.5	21	44.5	44.9	33.3	29	8.1	6	72.6	43.5	2.84	− 0.31	5,304	w.	24	w.	1	14	16	5	10
Indianapolis	766	29.19	−.08	30.01	30.37	21	29.59	1	0.78	48.5	− 4.5	78.4	1	58.5	32.0	3	42.5	46.4	28.3	7	3.5	23	71.6	38.8	4.03	+ 0.95	3,115	se.	22	w.	28	14	15	6	10
Terre Haute	....	....	....	....	....	..	....	..	....	52.4	....	79.5	1	62.8	28.8	21	42.1	50.7	33.9	1	6.8	23	....	....	2.22	....	....	w.	....	....	..	14	..	..	..
Cincinnati	628	29.34	−.09	30.02	30.35	21	29.57	1	0.78	50.5	− 6.0	79.2	1	60.3	33.9	21	43.6	45.3	38.1	31	6.6	20	73.9	41.9	3.05	+ 0.38	5,263	se.	35	sw.	1	15	16	6	9
Columbus	812	29.14	−.09	30.02	30.38	21	29.55	1	0.83	47.4	− 6.3	76.1	1	56.3	31.3	3	41.1	44.8	29.9	31	5.5	2	75.3	39.4	3.77	+ 0.85	5,914	nw.	46	sw.	1	14	14	9	8
Pittsburgh	847	29.09	−.10	29.98	30.35	21	29.48	1	0.87	49.0	− 6.2	73.8	1	57.1	32.7	10	42.5	41.1	29.4	31	5.3	21	72.8	40.2	3.46	+ 1.02	4,663	nw.	29	nw.	16	18	20	7	4
Parkersburgh	638	29.34	....	30.04	30.37	21	29.53	1	0.84	47.6	....	74.3	1	57.6	28.3	10	40.5	46.0	36.1	31	4.2	20	78.8	40.8	4.95	....	3,964	se.	36	sw.	1	16	13	6	12
Lexington	....	28.92	....	....	....	..	....	..	....	50.4	....	74.0	1	59.4	32.0	21	42.7	42.0	31.0	29	6.2	2	74.9	42.0	3.02	....	7,991	se.	48	s.	1	15	16	8	7
Lower lake region.										45.7	− 6.1														2.95	− 0.23									
Buffalo	690	29.22	−.08	29.97	30.38	22	29.38	1	1.00	45.0	− 5.9	66.2	31	50.9	30.8	22	39.3	35.4	27.2	31	3.1	6	76.0	37.4	5.43	+ 1.61	8,642	w.	41	sw.	16	20	22	7	2
Oswego	335	29.58	−.11	29.95	30.35	22	29.36	1	0.99	44.0	− 5.9	70.5	31	50.2	29.7	11	38.0	40.8	37.0	31	4.3	18	75.0	36.0	3.24	− 0.08	9,062	nw.	32	n.	8	19	23	6	2
Rochester	621	29.29	−.10	29.96	30.39	22	29.35	1	1.04	43.6	− 6.8	71.6	31	50.7	29.0	22	37.6	42.6	35.6	31	3.7	21	79.6	37.1	3.22	+ 0.17	8,040	w.	36	w.	24	19	15	13	3
Erie	714	29.19	−.14	29.96	30.36	21	29.42	1	0.94	46.6	− 6.6	72.0	31	54.2	33.8	21	40.7	38.2	30.5	31	7.2	6	75.6	38.7	3.17	− 1.18	9,320	nw.	42	se.	26	21	24	2	5
Cleveland	678	29.24	−.09	29.98	30.38	21	29.48	1	0.90	47.8	− 6.0	74.8	31	54.4	31.0	10	41.6	43.8	31.8	31	3.6	21	69.4	37.6	2.90	+ 0.03	7,255	se.	28	nw.	28	12	18	7	6
Sandusky	629	29.30	−.09	29.99	30.36	21	29.48	1	0.88	47.0	− 6.1	76.0	1	54.2	32.7	10	41.6	43.3	31.7	31	3.6	5	73.8	38.6	1.89	− 0.90	7,578	sw.	35	nw.	1	13	17	9	5
Toledo	673	29.26	−.10	29.99	30.38	21	29.48	1	0.90	46.2	− 5.4	76.0	31	55.1	28.8	9	40.1	47.2	34.9	1	4.3	15	73.4	37.6	1.64	− 1.04	7,688	sw.	36	w.	1	13	19	4	8
Detroit	662	29.27	−.07	29.99	30.40	21	29.42	1	0.98	45.2	− 6.2	72.5	31	53.6	30.2	3	40.1	42.3	30.5	31	3.8	12	79.4	38.8	2.09	− 0.47	7,366	sw.	35	w.	16	14	17	5	9
Upper lake region.										43.9	− 3.7														2.20	− 1.28									
Alpena	609	29.28	−.08	29.95	30.40	21	29.36	1	1.04	41.6	− 3.4	66.0	31	48.6	26.0	9	36.3	40.0	23.2	4	3.0	23	84.6	37.2	2.90	− 1.53	7,435	w.	40	e.	19	19	28	2	1
Escanaba	608	....	....	....	....	..	....	..	....	44.2	....	72.0	7	52.0	24.0	9	36.5	48.0	36.0	9	5.5	15	....	....	2.01	− 1.77	....	n.	....	....	..	15	..	..	..
Grand Haven	620	29.29	−.07	29.96	30.38	21	29.40	1	0.98	45.4	− 4.2	64.0	26	52.1	29.5	9	39.4	34.5	25.0	4	5.0	16	77.0	38.1	2.00	− 1.88	9,198	ne.	42	w.	19	13	19	2	10
Lansing	883	29.02	....	29.98	30.38	21	29.42	1	0.96	43.5	....	73.0	31	53.4	25.0	30	37.1	48.0	33.3	10	4.7	12	89.6	40.4	2.97	....	4,893	sw.	28	sw.	19	14	19	8	4
Manistee	....	29.28	....	29.96	30.40	21	29.40	1	1.00	43.8	....	61.2	25	48.9	28.2	10	38.2	33.0	22.3	10	3.0	17	78.4	37.3	2.39	....	6,619	s.	36	sw.	19	13	21	7	3
Marquette	672	29.22	−.04	29.96	30.40	21	29.48	1	0.92	40.0	− 3.9	65.9	25	48.3	29.1	9	35.9	36.8	30.4	10	4.6	20	78.8	33.9	2.40	− 1.20	6,366	nw.	35	s.	30	17	22	6	3
Port Huron	639	29.28	−.08	29.98	30.41	21	29.39	1	1.02	44.0	− 4.9	72.0	31	51.6	27.3	10	38.6	44.7	31.4	31	3.1	12	76.6	36.9	2.52	− 0.40	8,157	sw.	36	sw.	19	15	18	6	7
Chicago	715	29.21	−.07	29.98	30.36	21	29.49	1	0.87	48.4	− 4.9	76.3	31	55.9	31.5	20	42.3	44.8	32.3	7	2.8	22	68.7	38.0	2.95	− 0.63	8,210	sw.	34	sw.	19	11	11	11	9
Milwaukee	697	29.21	−.07	29.96	30.40	21	29.42	1	0.98	45.8	− 3.4	72.6	7	54.4	30.1	21	40.7	42.5	30.2	7	3.8	18	74.0	37.6	1.18	− 1.56	7,738	w.	38	w.	19	8	12	12	7
Green Bay	616	29.29	....	29.97	30.41	21	29.45	1	0.96	43.0	....	68.9	31	51.6	25.4	21	37.5	43.5	33.0	14	3.1	2	84.8	38.0	1.45	....	6,097	n.	30	n.	2	10	17	10	4
Duluth	672	29.22	−.04	29.96	30.31	21	29.60	26	0.71	42.2	− 1.4	73.0	7	49.3	27.2	20	38.0	45.8	24.2	6	4.1	18	80.2	36.2	1.68	− 1.29	5,018	nw.	24	nw.	13	7	18	8	5
Sault de St. Marie	....	29.23	....	29.94	30.38	20	29.41	1	0.97	39.2	....	60.4	11	46.9	22.0	21	34.7	38.4	27.4	11	1.6	1	86.4	35.2	2.37	....	4,614	se.	30	se.	19	16	20	5	6
Extreme northwest.										39.9	+ 0.4														1.67	− 0.51									
Moorhead	926	28.94	−.04	29.96	30.35	2	29.52	24	0.83	41.0	0.0	77.3	7	53.5	20.5	5	32.5	56.8	49.0	3	5.5	1	72.6	32.0	2.22	− 0.35	6,479	n.	36	se.	24	12	20	1	10
Saint Vincent	804	29.05	−.07	29.94	30.36	2	29.35	24	1.01	38.4	+ 1.2	76.0	7	50.4	19.0	5	31.9	57.0	42.7	6	3.2	11	79.8	31.9	1.32	− 0.69	6,458	s.	30	sw.	25	8	16	7	8
Bismarck	1,681	28.17	−.01	29.99	30.32	2	29.38	24	0.94	40.0	− 0.6	79.0	8	55.7	20.0	13	31.2	59.0	46.8	3	4.0	19	76.3	32.0	1.02	− 0.17	7,111	nw.	50	nw.	19	8	12	5	14

Table of miscellaneous meteorological data for October, 1888—Signal Service observations—Continued.

Stations and districts.	Elevation above sea-level, feet.	Atmospheric pressure: Mean actual barometer.	Atmospheric pressure: Departure from normal.	Atmospheric pressure: Mean reduced barometer.	Extremes: Highest barometer.	Date.	Extremes: Lowest barometer.	Date.	Monthly range of barometer.	Temperature: Monthly mean. (8 a.m. and 8 p.m.)	Temperature: Departure from normal.*	Extremes: Max.	Date.	Mean max.	Min.	Date.	Mean min.	Monthly range.	Daily ranges: Greatest.	Date.	Least.	Date.	Mean relative humidity, per cent.	Mean temperature of dew-point, degrees Fahrenheit.	Precipitation, in inches.	Departure from normal precipitation, in inches.	Winds: Total movement, miles.	Prevailing direction.	Maximum velocity: Miles p. h.	Direction.	Date.	No. of rainy days.	No. of cloudy days.	No. of fair days.	No. of clear days.
Ex. northwest—Con.																																			
Fort Buford	1,900	27.90	—.06	29.94	30.28	12	29.28	24	1.00	41.6	+ 1.8	75.8	3	55.2	21.8	25	32.3	54.0	42.5	7	3.4	4	70.8	31.1	0.62	— 0.37	6,969	nw.	60	nw.	24	9	14	14	3
Fort Totten	1,487	28.32	—.06	29.96	30.33	2	29.41	24	0.92	38.4	— 0.4	78.0	7	51.1	19.0	13	32.1	59.0	38.6	3	3.0	19	77.0	30.8	0.87	— 0.06	10,088	nw.	48	nw.	25	7	13	8	10
Fort Yates	.....	.....	....	.....	.....	.	.....	..	....	46.5	.....	81.7	8	60.6	21.2	13	32.4	60.5	49.5	7	10.1	19	....	.....	0.39	— 0.23	.....	nw.	...	.....	..	8	..	..	..
Upper Miss. Valley.										47.9	— 3.7														2.06	— 1.02									
Saint Paul	831	29.04	—.06	29.95	30.29	21	29.52	24	0.77	43.1	— 2.8	75.4	7	53.2	27.7	3	37.2	47.7	36.0	3	5.8	4	81.4	37.3	1.10	— 0.92	5,150	se.	26	w.	15	9	13	14	4
La Crosse	744	29.19	—.03	30.00	30.38	21	29.59	1	0.79	44.6	— 3.4	73.0	7	54.8	25.6	21	38.3	47.4	32.5	7	6.2	19	72.2	35.2	1.12	— 1.34	5,604	s.	30	s.	30	9	11	10	10
Davenport	615	29.32	—.08	29.99	30.36	21	29.57	1	0.79	46.9	— 3.6	74.4	31	58.3	30.0	3	40.5	44.4	30.6	7	3.2	5	74.1	38.1	2.81	— 0.32	5,915	w.	32	sw.	24	10	7	11	13
Des Moines	866	29.07	—.07	30.00	30.29	21	29.63	26	0.66	46.8	— 3.2	79.0	30	59.8	27.8	17	39.9	51.2	40.5	7	3.7	21	69.6	36.0	0.84	— 3.28	5,164	n.	31	s.	24	6	11	6	14
Dubuque	665	29.27	—.06	29.99	30.37	21	29.55	1	0.82	46.2	— 2.5	77.3	7	57.7	28.3	3	39.3	49.0	39.5	7	5.6	23	78.2	39.3	1.62	— 1.52	3,595	nw.	25	w.	19	7	14	5	12
Keokuk	618	29.33	—.07	29.99	30.29	21	29.63	1	0.66	48.6	— 3.6	73.0	31	60.8	32.1	3	41.9	45.9	34.6	30	8.9	20	70.0	38.5	1.63	— 1.77	6,093	nw.	35	sw.	18	9	7	11	13
Cairo	359	29.66	—.06	30.04	30.27	28	29.70	1	0.57	53.6	— 5.2	82.1	1	64.8	36.5	24	46.9	45.6	33.1	29	2.0	23	73.4	44.5	3.24	+ 0.29	5,173	n.	30	sw.	1	14	15	8	8
Springfield, Ill	644	29.34	—.07	30.03	30.36	21	29.67	1	0.69	48.4	— 5.1	76.6	31	60.2	32.1	3	41.6	44.5	32.7	30	6.5	23	75.6	40.6	3.61	— 0.15	6,774	s.	28	w.	19	13	9	12	10
Saint Louis	571	29.41	—.07	30.03	30.34	21	29.71	1	0.63	52.6	— 4.0	85.2	18	64.7	36.0	21	45.3	49.2	42.7	18	5.0	22	70.7	42.6	2.59	— 0.21	8,107	s.	36	s.	15	9	10	7	14
Missouri Valley.										46.2	— 2.3														0.98	— 1.09									
Lamar	1,028	28.97	....	30.07	30.38	28	29.76	26	0.62	51.4	.....	83.3	1	66.5	31.5	20	43.4	51.8	35.2	7	3.2	21	76.4	43.4	3.63	....	6,074	s.	36	sw.	18	10	7	4	20
Springfield, Mo	1,356	28.60	—.05	30.05	30.31	28	29.76	26	0.55	51.0	.....	82.0	18	64.3	33.0	20	44.1	49.0	29.8	28	3.0	22	76.2	43.0	5.07	....	7,399	se.	36	n.	2	9	7	10	14
Leavenworth	842	29.14	—.04	30.03	30.35	20	29.67	25	0.68	51.0	— 2.5	85.8	18	65.0	32.1	20	44.0	53.7	34.8	30	2.8	21	73.0	42.1	2.60	— 0.76	4,765	nw.	36	sw.	18	6	7	8	16
Topeka	.....	.....	....	.....	.....	..	.....	..	....	49.1	.....	86.2	4	67.7	25.0	28	40.1	61.2	41.4	7	6.2	22	75.0	40.4	2.39	....	.....	.....	...	.....	..	4	5	13	13
Omaha	1,113	28.84	—.05	30.03	30.31	20	29.66	25	0.65	48.4	— 2.8	80.2	30	61.9	28.2	20	40.6	52.0	38.0	7	6.9	5	67.6	37.0	1.16	— 1.74	5,110	n.	28	nw.	12	3	13	7	11
Crete	.....	.....	....	.....	.....	..	.....	..	....	46.8	.....	79.6	8	63.1	24.3	20	37.6	55.3	42.5	7	4.9	14	70.7	36.8	2.03	....	.....	.....	...	.....	..	4	6	6	19
Valentine	2,614	.....	....	.....	.....	..	.....	..	....	.....	.....	.....	..	.....	.....	..	.....	.....	.....	..	.....	..	....	.....	.....	....	.....	.....	...	.....	..	..	..	..	..
Fort Sully	1,600	28.27	—.04	29.99	30.30	2	29.41	24	0.89	43.4	.....	79.0	8	59.9	18.2	20	34.3	60.8	47.2	28	8.8	18	58.6	28.2	0.21	— 0.49	6,362	nw.	42	w.	27	3	4	14	13
Huron	1,307	28.58	—.03	30.00	30.31	2	29.47	24	0.84	41.3	— 2.4	78.8	8	57.8	16.8	13	31.3	62.0	52.0	7	6.0	26	64.2	28.3	0.29	— 1.42	7,149	se.	40	nw.	19	6	8	10	13
Yankton	1,234	28.66	—.05	29.98	30.29	20	29.56	24	0.73	44.2	— 1.4	81.8	9	61.8	23.5	28	35.5	58.3	48.0	7	7.8	21	70.8	34.4	0.55	— 1.05	5,122	nw.	32	nw.	19	4	1	10	14
Kansas City	947	29.02	....	30.05	30.32	20	29.72	25	0.60	52.3	.....	85.0	18	64.2	35.1	20	45.1	49.9	31.2	7	3.4	21	67.8	41.0	4.49	....	6,207	nw.	30	sw.	18	5	17	3	17
Northern slope.										43.8	+ 1.5														0.62	— 0.33									
Fort Assinaboine	2,720	27.10	—.07	29.94	30.36	18	29.30	23	0.90	43.1	+ 4.0	79.0	7	58.9	16.2	19	33.2	62.8	46.0	7	9.0	15	60.6	28.6	0.34	— 0.16	7,444	w.	40	sw.	25	10	19	4	8
Fort Custer	3,040	26.81	—.05	29.97	30.38	19	29.43	23	0.95	46.6	+ 1.4	78.0	29	60.9	16.5	19	35.9	61.5	44.9	28	7.0	11	55.8	29.0	0.66	— 0.35	5,268	se.	51	nw.	24	4	14	8	9
Fort Maginnis	4,340	25.51	—.06	29.93	30.30	19	29.35	23	0.75	42.0	+ 1.6	75.0	2	54.3	17.5	19	34.8	57.5	34.6	6	5.8	31	61.6	28.6	0.93	— 0.40	8,608	nw.	54	nw.	24	11	5	14	12
Helena	4,069	25.81	—.05	29.96	30.30	18	29.39	23	0.91	46.6	+ 4.2	75.0	1	57.2	21.0	27	39.2	54.0	32.5	6	6.9	15	47.2	25.8	0.14	— 0.94	5,739	sw.	36	sw.	9	5	12	10	9
Poplar River	2,030	27.81	—.05	29.94	30.34	19	29.31	24	1.03	41.3	+ 1.2	77.0	3	56.9	19.0	31	31.4	58.0	45.9	3	5.7	18	71.2	31.5	0.88	— 0.01	5,327	w.	48	nw.	19	5	9	17	5
Rapid City	3,280	26.58	....	29.99	30.29	12	29.44	24	0.85	44.4	.....	79.2	8	58.8	21.0	26	36.6	58.2	48.0	28	3.4	5	51.8	26.0	0.43	....	6,335	w.	40	n.	18	8	6	14	11
Cheyenne	6,105	24.02	—.02	30.02	30.46	19	29.61	26	0.85	43.2	+ 0.8	72.0	13	59.0	16.5	19	32.6	55.5	41.0	19	11.2	5	47.2	21.7	0.30	— 0.39	7,261	nw.	42	w.	23	5	14	13	4
Fort Laramie †	.....	.....	....	.....	.....	..	.....	..	....	50.6	.....	77.0	3	66.9	27.4	13	34.2	49.6	44.8	3	16.0	12	....	.....	0.26	....	.....	w.	...	.....	..	3	..	..	..
North Platte	2,841	27.06	—.05	30.03	30.36	19	29.67	24	0.69	44.0	— 2.4	80.0	30	63.3	19.8	19	33.8	60.2	46.9	28	6.8	5	64.6	31.6	1.12	— 0.06	5,750	w.	32	nw.	18	4	5	19	7
Fort McKinney	.....	24.96	....	30.00	30.38	19	29.61	23	0.77	44.0	.....	77.0	1	56.0	19.0	19	35.8	58.0	45.0	28	7.0	24	57.8	28.7	0.05	....	6,648	w.	48	n.	18	4	13	11	7
Middle slope.										50.8	— 0.5														1.08	— 0.81									
Colorado Springs	.....	.....	....	.....	.....	..	.....	..	....	46.3	.....	74.8	13	62.0	21.6	27	36.0	53.2	44.2	28	8.5	6	56.4	30.2	0.84	....	.....	.....	...	.....	..	2	5	14	12
Denver	5,281	24.77	—.01	30.00	30.36	19	29.61	24	0.75	48.4	+ 1.0	79.8	13	64.5	26.0	19	37.4	53.8	46.3	28	9.8	25	51.2	29.3	0.77	+ 0.04	4,678	s.	36	nw.	26	4	4	20	7
Pueblo	4,724	25.27	....	30.02	30.30	19	29.66	24	0.64	50.6	.....	84.0	13	66.0	25.0	28	39.2	59.0	50.0	13	5.6	6	45.2	26.2	0.48	....	4,369	nw.	38	nw.	24	3	11	10	11
Concordia	1,384	28.53	....	30.00	30.30	20	29.60	25	0.70	49.4	— 1.8	81.8	30	66.5	21.6	20	39.9	60.2	41.3	28	8.7	14	64.4	36.4	1.43	— 0.12	2,895	s.	27	s.	24	4	6	6	19
Dodge City	2,524	27.39	—.04	30.04	30.39	19	29.66	25	0.73	50.8	— 0.9	84.8	1	69.1	30.4	23	41.1	54.4	43.3	29	7.3	21	60.6	35.9	0.81	— 0.39	7,102	s.	54	s.	31	4	3	10	18
Fort Reno	.....	.....	....	.....	.....	..	.....	..	....	60.3	.....	86.2	17	74.1	33.6	23	46.5	52.6	....	..	.....	..	....	.....	1.49	— 2.24	.....	s.	...	.....	..	4	..	..	..
Fort Supply	.....	.....	....	.....	.....	..	.....	..	....	58.4	.....	88.4	1	72.3	34.6	28	44.5	53.8	37.2	25	13.5	18	....	.....	1.15	— 0.19	.....	s.	...	.....	..	6	..	..	..
Fort Elliott	2,650	27.25	—.04	29.97	30.28	28	29.61	25	0.67	54.0	— 0.2	87.7	18	70.8	34.2	22	44.8	53.5	37.0	16	5.9	21	66.5	41.8	0.85	— 1.97	8,135	s.	44	nw.	14	3	6	4	21
Wichita	1,354	28.56	....	30.00	30.28	28	29.63	25	0.65	53.4	.....	85.6	1	68.8	32.0	20	44.3	53.6	37.2	18	5.2	22	64.9	40.4	1.36	....	6,766	s.	36	s.	30	7	4	13	14
Southern slope.										58.7	— 0.5														2.11	— 0.33									
Fort Sill	1,200	28.80	—.01	30.03	30.33	28	29.69	25	0.64	55.9	— 2.7	87.5	17	72.4	33.0	23	46.2	54.5	38.9	29	7.0	9	76.5	48.0	2.36	— 0.87	7,329	n.	36	sw.	14	6	12	3	16
Abilene	1,748	28.20	—.06	30.01	30.29	28	29.72	25	0.57	61.9	+ 0.8	91.8	14	75.8	39.5	23	53.8	52.3	32.3	28	4.5	22	76.6	53.7	2.00	— 1.21	7,439	sw.	30	s.	17	4	8	4	19
Fort Davis	4,928	25.20	—.07	30.01	30.27	29	29.80	25	0.47	58.4	+ 0.4	85.0	13	73.2	36.0	24	49.7	49.0	35.0	15	8.0	22	60.5	41.5	1.93	+ 0.10	4,259	sw.	24	ne.	19	9	7	8	10
Fort Stanton	6,154	23.98	....	29.90	30.17	29	29.70	25	0.47	49.4	.....	77.5	13	65.5	28.8	23	38.2	48.7	43.5	15	5.7	6	47.1	28.4	2.14	+ 0.66	4,618	w.	28	w.	15	4	7	3	21
Southern plateau.										60.9	+ 1.9														1.76	+ 0.77									
El Paso	3,796	26.19	—.08	29.93	30.18	29	29.74	3	0.44	62.8	— 1.3	90.8	13	79.2	38.0	24	52.2	52.8	42.0	12	5.4	22	53.6	41.7	1.13	— 0.18	5,247	e.	39	ne.	20	4	4	8	19
Lava	.....	.....	....	.....	.....	..	.....	..	....	57.0	.....	86.0	10	72.7	27.8	23	41.5	58.2	45.0	16	7.1	22	....	.....	3.10	— 0.15	.....	sw.	...	.....	..	6	..	..	..
Santa Fé	7,026	23.29	—.05	30.01	30.28	29	29.75	25	0.53	48.4	+ 1.0	72.3	13	62.1	29.5	22	39.9	42.8	31.5	15	2.0	21	49.8	26.4	1.40	+ 0.34	4,547	n.	28	w.	18	5	6	5	20
Fort Apache	5,020	....	....	.....	.....	..	.....	..	....	58.8	.....	86.7	12	75.3	30.2	23	42.2	56.5	43.7	12	12.1	21	....	.....	1.23	— 0.31	.....	sw.	...	.....	..	6	..	..	..
Fort Bowie	.....	.....	....	.....	.....	..	.....	..	....	63.7	.....	84.0	12	72.4	41.5	22	54.6	42.5	....	..	.....	..	....	.....	1.89	+ 0.85	.....	sw.	...	.....	..	4	..	..	..
Fort Grant	4,860	25.22	—.03	29.98	30.18	23	29.80	3	0.38	63.0	+ 2.6	87.0	11	75.1	38.0	24	54.1	49.0	28.8	24	10.4	6	42.4	37.3	1.19	+ 0.35	3,376	nw.	30	s.	19	3	4	5	22
Fort McDowell	.....	.....	....	.....	.....	..	.....	..	....	69.9	.....	100.0	11	86.4	45.0	23	53.4	55.0	44.0	9	15.0	18	....	.....	2.82	+ 2.19	.....	w.	...	.....	..	7	..	..	..
Fort Thomas	2,710	.....	....	.....	.....	..	.....	..	....	64.8	.....	92.0	12	81.6	41.0	23	48.1	51.0	43.0	11	14.0	21	....	.....	2.80	....	.....	w.	...	.....	..	6	..	..	..
Fort Verde	.....	.....	....	.....	.....	..	.....	..	....	64.0	.....	95.4	12	81.9	35.0	23	44.7	60.4	51.3	10	20.0	20	....	.....	4.47	+ 3.99	.....	w.	...	.....	..	6	..	..	..
Prescott	5,389	24.73	—.03	29.98	30.23	23	29.78	18	0.45	53.0	+ 2.9	84.5	11	70.8	29.0	23	41.0	55.5	42.7	10	6.3	18	49.8	30.7	1.75	+ 1.24	5,588	sw.	39	s.	17	5	8	6	17
San Carlos	.....	.....	....	.....	.....	..	.....	..	....	.....	.....	.....	..	.....	42.0	22	51.1	....	....	..	.....	..	....	.....	7.73	+ 1.10	.....	sw.	...	.....	..	3	..	..	..
Willcox	.....	.....	....	.....	.....	..	.....	..	....	61.6	.....	93.8	9	82.1	30.9	24	41.2	62.9	57.8	9	18.3	20	....	.....	1.15	+ 0.05	.....	w.	...	.....	..	6	..	..	..
Yuma	141	29.67	—.09	29.81	30.06	23	29.61	17	0.45	73.9	+ 2.9	105.1	11	90.5	49.0	22	59.3	56.1	45.1	11	15.4	19	56.3	54.2	0.99	+ 0.87	3,454	e.	30	s.	18	3	2	4	25
Keeler	3,622	26.28	....	29.88	30.12	22	29.57	17	0.55	64.4	+ 3.2	85.1	11	76.5	47.0	20	53.9	38.1	28.2	8	9.8	17	34.0	33.3	0.00	— 0.37	4,256	n.	36	nw.	21	0	2	3	26
Middle plateau.										51.0	+ 1.9														0.69	— 0.28									
Fort Bidwell	4,640	25.43	....	30.08	30.44	22	29.77	16	0.67	50.4	+ 2.9	79.0	5	67.5	22.0	22	36.4	57.0	43.0	19	12.2	30	63.0	37.9	0.20	— 0.51	3,901	w.	28	w.	24	1	8	12	11
Winnemucca	4,344	25.67	+.01	30.04	30.41	22	29.75	16	0.66	51.2	+ 1.6	79.5	12	66.3	20.8	22	34.9	58.7	51.3	15	8.3	24	36.2	20.4	0.08	— 0.54	6,066	w.	36	w.	12	2	10	7	14
Fort Du Chesne	.....	25.04	....	30.00	30.34	28	29.67	24	0.67	43.5	.....	80.2	1	65.7	17.0	27	31.9	63.2	44.6	16	14.6	2	49.0	24.4	0.15	....	3,517	s.	38	w.	26	3	5	13	13
Salt Lake City	4,348	25.63	—.05	29.98	30.25	14	29.66	17	0.59	54.0	+ 3.0	78.2	12	64.4	31.5	22	43.7	46.7	33.0	29	7.0	3	44.9	31.2	0.80	— 0.82	3,604	nw.	25	s.	17	7	7	5	19
Montrose	5,795	24.30	....	29.98	30.29	28	29.68	25	0.61	48.6	0.0	78.0	13	63.0	25.3	23	36.9	52.7	41.7	16	11.9	2	61.1	34.5	1.66	+ 0.76	3,301	se.	23	se.	2	11	11	7	13
Carson City	.....	.....	....	.....	.....	..	.....	..	....	51.2	.....	79.7	11	67.9	22.3	22	36.8	57.4	45.7	15	9.2	31	53.4	32.4	T.	....	.....	.....	...	.....	..	0	3	5	23
Brock's	.....	.....	....	.....	.....	..	.....	..	....	51.2	.....	82.1	1	65.7	26.6	28	36.7	55.5	38.1	14	13.6	26	....	.....	0.54	....	.....	sw.	...	.....	..	5	..	..	..
Northern plateau.										50.3	+ 3.3														0.92	— 0.39									
Boise City	2,750	27.18	—.05	30.02	30.36	22	29.63	23	0.73	52.6	+ 3.2	82.0	5	66.9	24.8	20	39.4	57.2	41.6	15	7.5	30	51.1	32.8	0.78	— 0.53	2,092	w.	22	se.	24	6	15	5	11
Ashland	.....	.....	....	.....	.....	..	.....	..	....	57.0	.....	84.5	5	70.8	31.0	21	43.2	53.5	41.0	15	12.5	29	....	.....	0.88	— 0.46	.....	w.	...	.....	..	8	..	..	..
Fort Klamath	.....	.....	....	.....	.....	..	.....	..	....	45.6	.....	78.0	5	63.5	14.0	17	27.8	64.0	48.3	18	10.7	8	....	.....	0.29	— 0.57	.....	w.	...	.....	..	4	..	..	..
Lakeview	.....	.....	....	.....	.....	..	.....	..	....	52.1	.....	83.0	5	67.5	25.5	21	36.7	57.5	44.0	14	11.0	30	....	.....	0.28	— 0.59	.....	s.	...	.....	..	6	..	..	..
Linkville	.....	.....	....	.....	.....	..	.....	..	....	49.6	.....	78.1	5	63.4	25.0	13	35.9	53.1	42.9	15	13.0	25	....	.....	0.33	— 0.69	.....	n.	...	.....	..	7	..	..	..
Spokane Falls	1,909	27.98	—.03	30.02	30.38	18	29.46	23	0.92	48.0	+ 3.4	81.5	5	60.8	23.0	18	38.0	58.5	40.5	6	11.2	24	68.8	36.8	1.57	— 0.50	3,053	sw.	30	sw.	23	13	13	15	3
Walla Walla	1,018	28.93	—.07	30.02	30.39	21	29.64	25	0.75	56.2	.....	81.4	4	65.6	33.0	19	48.0	48.4	27.7	5	9.0	30	60.2	41.2	2.33	+ 0.59	4,530	sw.	40	sw.	23	10	16	7	8
N. Pac. coast region.										53.6	+ 2.8														6.53	+ 1.71									
Fort Canby	179	29.83	—.02	30.02	30.40	21	29.73	25	0.67	55.2	+ 1.8	66.8	4	58.7	41.3	31	50.9	25.5	14.5	18	4.2	7	89.5	52.0	6.89	+ 2.22	7,827	s.	54	se.	27	22	20	9	2
Olympia	36	29.99	—.03	30.03	30.40	21	29.66	25	0.74	53.2	+ 3.8	74.0	5	60.4	35.0	18	47.1	39.0	29.0	5	5.5	11	87.0	49.0	4.27	— 0.46	2,807	s.	17	w.	23	19	19	9	3
Port Angeles	14	29.97	—.07	29.98	30.36	21	29.56	25	0.80	49.0	+ 3.2	62.2	1	55.2	30.6	30	43.3	31.6	18.3	30	4.8	10	88.8	45.6	4.31	+ 1.45	2,655	s.	23	w.	23	19	24	4	3
Pysht	.....	.....	....	.....	.....	..	.....	..	....	49.5	.....	63.0	2	54.5	36.0	24	44.5	27.0	....	..	.....	..	....	.....	9.44	+ 3.01	.....	sw.	...	.....	..	26	..	..	..
Tatoosh Island	86	29.88	—.06	29.97	30.37	21	29.57	25	0.80	52.2	+ 1.7	63.0	6	56.5	42.0	31	48.9	21.0	11.8	9	3.4	29	92.6	50.0	12.12	+ 4.02	10,323	e.	56	e.	12	26	24	3	4
Astoria	38	.....	....	.....	.....	..	.....	..	....	55.7	.....	68.0	6	60.4	41.0	31	51.1	27.0	....	..	.....	..	....	.....	7.45	+ 2.67	.....	sw.	...	.....	..	25	..	..	..
Portland	80	29.96	—.03	30.06	30.43	21	29.72	5	0.71	55.4	+ 3.3	81.5	5	63.7	37.0	31	48.9	44.5	33.5	5	7.1	2	85.2	50.6	4.97	+ 0.64	3,191	s.	27	s.	25	19	21	7	3
Roseburgh	523	29.52	—.03	30.08	30.47	22	29.74	5	0.73	56.4	+ 3.5	82.8	5	67.1	32.6	18	45.9	50.2	37.0	4	6.9	29	79.0	48.8	2.82	+ 0.14	2,128	n.	25	sw.	23	15	11	15	5
Mid. Pac. coast reg.										63.7	+ 3.6														0.04	— 1.02									
Eureka	.....	30.00	....	30.06	30.27	22	29.88	4	0.39	53.0	.....	67.4	7	60.8	40.0	18	48.3	24.7	25.6	18	3.5	4	91.0	50.4	1.15	....	3,177	n.	38	n.	13	8	6	13	12
Red Bluff	342	29.60	—.06	29.95	30.20	22	29.73	5	0.47	68.2	+ 4.0	92.0	10	79.2	44.0	31	54.7	48.0	32.3	27	12.5	30	38.0	37.2	T.	— 1.21	4,989	n.	36	n.	13	0	0	5	26
Sacramento	64	29.86	—.08	29.93	30.13	9	29.76	5	0.37	64.2	+ 4.2	91.5	11	79.7	40.0	31	50.8	51.5	35.0	15	19.0	24	62.0	48.8	0.00	— 0.82	4,682	se.	36	n.	21	0	0	3	28
San Francisco	60	29.91	—.05	29.98	30.14	9	29.84	17	0.30	68.6	+ 2.6	86.8	22	69.4	49.5	31	53.9	37.3	29.0	14	5.6	30	78.2	50.4	0.13	— 1.02	5,726	w.	32	n.	21	2	3	14	14
S. Pac. coast region.										62.8	+ 3.0														0.33	— 0.12									
Fresno	313	29.60	....	29.93	30.12	22	29.74	5	0.38	66.2	.....	93.5	11	82.3	41.0	25	50.7	52.5	39.5	15	19.5	24	59.0	49.3	0.00	....	2,976	nw.	15	n.	6	0	0	4	27
Los Angeles	339	29.56	—.06	29.92	30.06	23	29.78	17	0.28	62.0	+ 3.0	98.0	10	77.2	44.0	24	54.8	54.0	39.2	10	6.0	5	82.4	56.0	0.40	— 0.08	3,407	w.	18	sw.	22	3	5	10	16
San Diego	67	29.85	—.07	29.92	30.06	23	29.78	17	0.28	63.5	+ 3.0	80.0	11	70.5	53.0	22	59.4	27.0	23.0	23	5.0	3	90.6	60.4	0.26	— 0.15	3,434	sw.	22	n.	19	3	12	4	15

NOTE.—The data at stations having no departures are not used in computing the district averages. * Departure from mean of maximum and minimum values. † For 16 days.