CLIMATOLOGICAL DATA FOR MAY 1948

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION, BY SECTIONS

[For description of tables and charts, see REVIEW, January 1943, p. 15]

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data as indicated by the several headings.

The mean temperature for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Section	Temperature								Precipitation					
	Section average	Departure from the normal	Monthly extremes						Section average	Departure from the normal	Greatest monthly		Least monthly	
			Station	Highest	Date	Station	Lowest	Date			Station	Amount	Station	Amount
	°F.	°F.		°F.			°F.		In.	In.		In.		In.
Alabama	72.4	+1.0	Geneva	99	23	Valley Head	39	8	3.18	−0.77	Citronelle	7.82	Tuskegee	0.60
Arizona	67.0	+.9	Mohawk	110	17	Alpine	13	11	.03	−.29	Fort Defiance	.94	97 stations	.00
Arkansas	68.7	−.3	Fordyce	97	24	3 stations	35	7	5.15	+.09	Mena	9.53	Osceola	1.44
California	58.6	−2.8	Greenland Ranch	117	15	Twin Lakes	−2	1	1.30	+.36	Elk Valley	5.96	33 stations	.00
Colorado	54.2	+1.8	La Junta	99	20	2 stations	11	10	1.59	−.31	North Lake	5.71	Olothe	.00
Florida	77.4	+1.8	2 stations	99	23	Bushnell	46	8	2.44	−1.49	Peters	7.63	Hillsboro River Park	.14
Georgia	72.3	+.8	do	99	[1] 18	Blairsville	34	8	4.02	+.54	Brooklet	8.59	Cairo	.53
Idaho	52.8	−.3	Orofino	100	27	Grouse	9	9	2.57	+.88	Pierce R. S	8.38	Grand View	.02
Illinois	60.9	−1.8	2 stations	90	[1] 21	Marengo	28	8	3.76	−.39	Grand Tower	7.50	Bluffs	1.51
Indiana	60.7	−1.5	Crane	93	10	Wheatfield	28	8	3.93	−.18	La Porte	11.04	Pendleton	1.94
Iowa	59.2	−1.3	Britt	97	20	Decorah	26	8	2.34	−1.62	Dubuque	6.02	Pocahontas	.41
Kansas	64.7	+.9	Medicine Lodge	104	21	2 stations	26	12	2.69	−1.11	Garnett Ks	7.35	Medicine Lodge	.18
Kentucky	64.1	−1.2	Pikesville	94	11	Williamsburg	35	8	3.32	−.66	Paducah	6.04	Tompkinsville	.94
Louisiana	75.1	+1.4	Donaldsonville	96	[1] 18	Clinton	43	8	3.20	−1.52	Plain Dealing	9.83	Chandeleur Light-house.	.53
Maryland-Delaware.	62.6	−.3	2 stations	94	11	Oakland, Md	31	6	7.14	+3.48	Lewes, Del	14.62	Chewsville, Md	3.25
Michigan	52.1	−2.0	Waters Meet	90	27	Munesing	21	10	2.70	−.61	Dowagiac	6.55	Lanse	.10
Minnesota	55.6	+.5	Argyle	96	19	Cloquet	19	8	1.26	−1.96	Spring Grove	4.02	Ah-gwah-ching	.20
Mississippi	72.4	+.6	Yazoo City	97	2	Edinburg	42	7	3.00	−1.30	Biloxi	6.04	Vaiden	1.05
Missouri	63.9	−.5	4 stations	92	[1] 20	2 stations	33	[1] 6	3.50	−1.30	Farmington	6.85	Moberly	1.25
Montana	53.0	+1.0	Glendive	103	18	Summit	18	4	2.69	+.59	Babb	6.01	Westby	.70
Nebraska	60.6	+1.4	2 stations	99	[1] 20	Tryon	21	4	2.03	−1.36	Fairbury	6.42	Kowanda	.46
Nevada	55.5	−.4	Las Vegas Airport	102	16	Marlette Lake	8	1	.58	−.27	Marlette Lake	2.40	15 stations	.00
New England	52.9	−2.2	Waterbury, Conn	90	12	Lemington, Vt	22	4	6.50	+3.02	Segreganset, Mass	10.52	Montpelier, Vt	2.97
New Jersey	60.0	−.6	Chatsworth	95	11	Layton	25	2	8.06	+4.44	Mays Landing	11.96	2 stations	5.39
New Mexico	62.1	+2.4	Carlsbad	104	16	Luna Ranger Station	15	11	1.44	+.22	Levy	5.95	8 stations	.00
New York	53.9	−2.1	2 stations	92	11	Walton	22	2	4.68	−1.02	Cutchogue, N. Y	10.58	Massena High School	2.11
North Carolina	66.9	.0	Tarboro	99	2	Mount Mitchell	24	8	4.78	+.78	Mocksville	10.26	Swannanoa	1.40
North Dakota	55.1	+1.7	Granville	101	19	Center	24	12	1.38	−.88	Dunn Center	3.73	Ashley	.06
Ohio	58.7	−1.8	Tronton	91	11	Marietta (water works).	32	8	3.75	−2.07	Wauseon	6.57	Norwich	1.10
Oklahoma	69.1	+.8	Alva	105	22	2 stations	33	[1] 4	4.76	.00	Caney	15.30	Cherokee	.28
Oregon	51.0	−2.3	3 stations	95	[1] 27	Fremont	9	9	3.07	+1.28	Valsetz	9.68	Crescent Lake	.45
Pennsylvania	58.0	−1.7	York	95	11	Wallenpaupack	24	11	5.24	+1.23	Pottstown	10.67	Dushore	2.67
South Carolina	71.2	+.3	Columbia Airport	102	21	2 stations	39	[1] 8	5.52	+2.01	Ridgeland	12.03	Winthrop College	2.85
South Dakota	57.4	+1.1	Tyndall	99	20	Longvalley	16	2	1.81	−1.03	Van Metre	4.94	Aberdeen	.28
Tennessee	66.2	−.07	Samburg	91	21	Rugby	31	8	2.73	−1.39	Moscow	5.86	McEwen	.75
Texas	74.9	+1.9	Rio Grande City	112	2	Dalhart	32	6	3.68	−.02	Gonzales	12.07	Presidio	.00
Utah	56.3	+.8	2 stations	98	[1] 7	2 stations	12	[1] 3	.48	−.72	Pineview Dam	3.31	14 stations	.00
Virginia	63.9	−.3	Fredericksburg	97	10	do	30	[1] 8	5.44	+1.68	Langley Field	13.00	Davenport	1.85
Washington	50.8	−1.8	Richland	96	26	Paradise Ranger Station.	18	1	5.26	+3.46	South Olympic Tree Farm.	15.67	Dallesport	1.05
West Virginia	60.5	−1.2	Moorefield	96	12	2 stations	28	6	4.28	+.27	Alpena	10.09	Hogsett	1.79
Wisconsin	54.4	−.8	5 stations	92	20	Mellen	12	8	2.12	−1.52	Brodhead	6.60	Lac Vieux Desert	.31
Wyoming	52.4	+2.7	Fort Laramie	100	22	Foxpark	6	1	1.13	−.93	Dull Center	3.33	Rock Springs	.05
(APRIL)														
Alaska	25.9	−1.4	Tree Point	70	23	Umiat	−31	17	.95	−.51	Attu	10.27	6 stations	.00
Hawaii	71.8	+.2	Akweli	89	6	Haleakala Ranger Station.	36	6	6.13	+.06	Kukua	42.0	5 stations	.00
Puerto Rico	78.3	+1.4	Mayaguez	96	1	2 stations	57	[1] 11	6.72	−.57	Rio Blanco	19.07	Mona Island	.72

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MAY 1948

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air, Averages: Mean maximum	Averages: Mean minimum	Averages: Mean	Averages: Departure from normal	Extremes: Highest	Extremes: Date	Extremes: Lowest	Extremes: Date	Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Days with 0.01 inch or more	Days with thunderstorms	Total snowfall (unmelted)	Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Character of day (sunrise to sunset), number of days: Clear	Partly cloudy	Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
NEW ENGLAND									51.2	−1.0								81	6.42	+3.0														7.6	
Caribou [2]	628	5	33	990.2	1,013.5	-----	60	40	49.6	+1.1	79	27	28	4	33	478	40	72	5.91	+2.9	2.25	14	1	T	0	----	nw.	--	------	--	3	8	20	7.8	--
Eastport	75	67	82	1,011.2	1,013.9	.0	52	39	45.8	−1.9	63	28	35	4	24	596	40	84	5.66	+2.6	1.60	13	0	0	0	9.6	s.	34	e.	22	4	5	22	7.8	46
Portland, Me. [2]	103	6	43	1,010.8	1,013.2	−1.4	58	42	50.0	−1.2	68	29	28	4	40	467	44	82	7.74	+4.3	2.19	21	2	0	0	8.8	s.	29	ne.	14	2	6	23	8.0	27
Concord [2]	289	5	45	1,000.7	1,013.5	−1.1	62	43	52.8	−.1	82	27	29	2	45	385	44	76	5.04	+2.0	1.32	13	4	0	0	7.2	se.	25	nw.	19	2	6	23	8.0	26
Mt. Washington	6,274	5	37	803.1	1,017.3	-----	38	28	32.7	−3.0	54	27	14	19	18	1002	30	90	5.90	+.2	1.13	19	0	14.7	0	29.5	w.	89	nw.	19	3	2	26	8.6	17
Burlington [2]	403	6	51	999.7	1,012.2	−2.0	64	44	54.0	−2.5	83	27	32	3	38	349	44	74	3.03	+.2	.59	16	2	0	0	8.6	s.	27	nw.	18	4	9	18	7.0	34
Boston [2]	124	33	62	1,012.2	1,013.2	−1.4	62	48	55.0	−2.1	83	10	42	14	32	313	44	76	5.37	+2.2	1.73	16	4	0	0	11.3	ne.	35	ne.	14	4	6	21	7.6	39
Nantucket [2]	12	4	34	1,012.9	1,013.5	−1.1	58	45	51.4	−.9	70	29	32	4	25	420	48	90	8.24	+5.4	3.00	14	3	0	0	14.0	se.	36	ne.	6	4	10	17	7.1	42
Block Island	26	11	46	1,011.9	1,012.5	−2.1	58	47	52.4	−.4	71	29	40	4	17	393	48	92	8.37	+4.9	1.75	13	4	0	0	14.4	s.	39	se.	16	6	7	18	6.9	52
Providence [3]	159	65	60	1,010.8	1,013.2	−1.4	66	49	57.4	−1.1	85	12	40	2	34	253	46	78	9.25	+6.3	1.97	15	5	0	0	8.8	ne.	30	sw.	23	3	9	19	7.5	47
Hartford [2]	159	5	44	1,012.2	1,013.2	−1.7	67	48	57.4	−.1	85	12	32	2	38	254	48	76	4.81	+1.2	1.06	15	4	0	0	8.8	s.	29	n.	12	3	8	20	7.6	43
New Haven [2]	107	5	39	1,012.5	1,012.9	−2.0	64	48	55.8	+.4	75	29	34	2	30	283	48	78	7.77	+4.4	1.80	15	4	0	0	7.5	ne.	23	e.	5	4	8	19	7.2	47
MIDDLE ATLANTIC									62.1	−.1								74	6.76	+3.3														6.9	
Albany [2]	97	6	40	1,001.4	1,012.2	−2.0		46	56.2	−1.5	83	28	32	2	40	290	46	70	4.75	+2.2	1.31	13	3	0	0	8.1	n.	29	w.	19	3	6	22	7.4	46
New York [4]	314	415	451	1,011.2	1,012.9	−1.7	66	52	59.0	−1.6	84	12	42	9	26	209	49	74	8.82	+5.6	2.70	15	2	0	0	12.7	s.	42	n.	21	6	11	14	7.0	49
Allentown [2]	385	4	58	999.0	1,012.9	-----	66	49	59.6	−.9	90	11	33	9	43	206	49	74	7.88	+4.4	2.75	14	1	0	0	----	sw.	--	------	--	2	9	20	7.8	--
Harrisburg [2]	374	30	49	999.7	1,012.5	−2.7	70	52	61.4	−.4	92	11	39	9	41	158	50	70	5.64	+2.2	1.15	15	4	0	0	7.9	nw.	26	w.	21	0	10	21	7.8	53
Philadelphia [4]	114	174	150	1,011.5	1,012.5	−3.1	71	54	62.2	−.7	88	11	45	9	32	134	52	74	6.88	+3.6	1.83	14	3	0	0	8.0	s.	23	sw.	16	4	12	15	7.0	48
Reading	323	47	306	1,001.0	1,012.9	−2.0	70	53	62.0	+.1	93	11	38	9	40	152	-----	--	8.50	+4.8	2.69	15	5	0	0	11.0	se.	47	n.	21	4	7	20	7.3	40
Scranton	805	72	104	983.4	1,012.5	−2.7	71	49	58.4	−1.0	91	11	35	2	36	238	-----	--	4.10	+.8	.71	17	2	0	0	6.6	n.	28	nw.	21	5	15	11	6.5	53
Atlantic City	52	37	172	1,010.5	1,012.5	−2.7	68	52	57.9	−.2	79	21	44	4	27	222	52	84	8.80	+5.8	3.24	15	7	0	0	15.7	s.	40	e.	7	2	11	18	7.4	60
Newark [2]	30	5	46	1,011.5	1,012.5	-----	64	51	60.0	−1.4	91	12	38	9	35	190	50	74	8.12	+4.2	2.31	15	3	0	0	----	ne.	--	------	--	5	10	16	7.0	--
Trenton	190	89	107	1,005.8	1,012.5	−2.7	68	52	61.1	.0	90	11	42	9	35	168	-----	--	8.03	+5.0	1.71	17	8	0	0	9.4	s.	28	w.	8	2	12	17	7.2	44
Baltimore [4]	123	100	215	1,012.2	1,012.9	−2.3	70	57	65.0	+.6	90	10	48	8	31	80	53	73	6.41	+2.9	1.25	15	6	0	0	11.0	s.	36	w.	8	3	14	14	6.7	57
Washington [4]	112	56	100	1,009.1	1,013.5	−1.7	73	56	65.4	+1.7	92	11	45	6	39	77	53	70	8.59	+4.9	2.17	16	10	0	0	7.6	s.	25	nw.	21	2	11	18	7.3	51
Cape Henry	18	8	54	1,012.5	1,013.2	−2.4	75	58	66.2	+2.0	87	10	50	8	30	46	58	78	5.12	+1.6	1.17	12	6	0	0	11.0	se.	37	w.	17	11	9	11	5.5	74
Lynchburg [2]	686	5	58	980.0	1,013.2	−2.4	74	55	64.9	−1.0	86	10	45	8	34	58	54	74	4.13	+.5	1.44	12	8	0	0	8.4	sw.	32	s.	12	5	11	15	6.4	58
Norfolk [4]	91	80	125	1,012.5	1,013.5	−2.4	74	59	68.1	+1.9	87	10	51	1	30	22	56	76	6.98	+3.2	2.45	12	7	0	0	9.7	s.	29	se.	29	8	8	15	6.3	64
Richmond [4]	144	11	52	1,006.4	1,012.5	−3.1	77	56	66.7	+.2	87	10	46	8	35	39	56	74	5.47	+1.7	1.22	18	11	0	0	7.6	s.	29	w.	7	8	8	15	6.1	67
SOUTH ATLANTIC							77																												
									71.2	+1.4								70	4.94	+1.4														5.3	
Asheville	2,253	77	92	941.1	1,014.2	−2.1	76	52	63.8	+1.2	85	10	41	15	41	80	50	70	2.64	−.8	.91	14	6	0	0	7.8	nw.	26	nw.	7	9	10	12	5.8	78
Charlotte [4]	779	63	86	986.1	1,013.9	−2.0	80	60	70.0	+1.1	91	21	47	8	32	12	55	65	5.88	+2.2	1.92	12	10	0	0	6.8	sw.	24	w.	7	10	8	13	5.6	70
Greensboro [2]	886	6	56	982.7	1,014.2	−2.4	79	55	66.8	+.4	88	21	43	8	39	35	54	70	4.45	+.4	2.07	13	7	0	0	8.2	sw.	26	nw.	7	9	10	12	5.9	64
Hatteras	11	5	47	1,013.2	1,013.9	−2.0	75	65	70.1	+1.4	80	29	57	4	15	3	62	76	4.13	+.4	1.69	8	6	0	0	12.3	sw.	35	nw.	7	8	12	11	5.7	78
Raleigh [4]	376	5	71	999.7	1,013.2	−2.4	81	59	69.6	+1.1	90	21	48	8	36	10	56	70	3.23	−.6	.97	13	7	0	0	6.8	s.	22	nw.	7	8	16	7	5.2	66
Wilmington	72	73	107	1,012.9	1,014.2	−2.1	80	63	71.2	+.4	88	3	52	8	25	3	61	74	5.22	+1.8	1.57	13	9	0	0	9.5	se.	39	nw.	17	12	11	8	4.7	75
Charleston [4]	48	11	92	1,011.9	1,013.5	−2.8	80	67	73.9	+1.2	89	14	56	8	20	0	63	78	7.05	+4.0	1.26	14	10	0	0	10.6	se.	34	se.	12	14	6	11	4.8	75
Columbia, S. C. [4]	347	70	91	1,001.0	1,013.5	−2.4	84	62	73.0	+1.1	94	21	49	8	34	2	58	68	5.77	+2.7	1.66	11	7	0	0	7.8	s.	35	w.	2	16	4	11	4.7	69
Greenville, S. C. [2]	1,040	18	36	976.6	1,013.2	−2.4	80	58	69.0	+1.8	93	21	42	8	38	21	55	65	7.74	+3.7	3.69	14	13	0	0	8.7	ne.	33	n.	24	11	8	12	5.6	70
Augusta [4]	182	62	77	1,007.1	1,013.2	−2.4	85	63	74.0	+1.6	95	21	50	8	38	1	57	62	5.26	+2.2	1.82	9	9	0	0	5.9	nw.	28	w.	25	10	10	11	5.2	82
Savannah [2]	65	19	51	1,011.5	1,013.5	−2.8	85	65	74.7	+3.0	95	22	53	8	29	0	64	74	5.77	+2.8	1.48	11	12	0	0	9.6	se.	38	se.	4	9	10	12	5.7	59
Jacksonville [4]	43	86	110	1,012.5	1,013.9	−2.4	88	68	78.1	+3.1	95	22	57	8	27	0	64	66	2.12	−1.9	.95	7	7	0	0	8.5	w.	32	sw.	28	13	9	9	4.8	71
FLORIDA PENINSULA									78.8	+1.2								73	2.63	−1.9														4.8	
Key West [4]	21	10	64	1,013.2	1,013.9	−1.0	86	76	80.8	+1.7	88	7	65	1	18	0	70	72	.88	−2.7	.28	6	5	0	0	7.5	e.	23	se.	9	15	9	7	4.1	74
Miami [4]	25	242	249	1,013.2	1,014.2	−1.7	82	73	77.3	+.1	87	7	65	30	20	0	69	76	6.50	−.6	2.36	9	5	0	0	10.6	se.	43	ne.	30	8	13	10	5.7	68
Tampa [2]	35	5	36	1,013.2	1,014.2	−1.7	88	68	78.2	+1.9	92	27	57	8	31	0	66	71	.51	−2.5	.41	5	5	0	0	7.4	w.	29	sw.	29	14	12	5	4.6	86
EAST GULF									74.2	+1.5								69	3.63	−.1														5.0	
Atlanta [2]	1,173	33	72	972.6	1,012.9	−3.0	82	59	70.7	+.4	92	24	48	8	34	7	55	63	7.83	+4.4	5.13	7	6	0	0	8.9	e.	31	w.	2	12	10	9	5.1	80
Macon [4]	370	79	87	1,000.3	1,013.2	−2.7	86	61	73.0	+.7	94	21	46	8	38	3	56	61	3.39	+.4	.81	8	8	0	0	5.7	n.	34	sw.	28	9	10	12	5.7	77
Thomasville	273	48	----	1,004.7	1,014.6	−1.0	88	65	76.4	+2.4	95	24	53	8	29	1	-----	--	1.81	−1.8	1.11	4	4	0	0	----	------	--	------	--	10	18	2	----	--
Apalachicola	35	11	51	1,012.9	1,013.9	−2.0	85	69	77.0	+2.4	93	23	59	8	22	0	67	76	2.88	−.5	2.42	5	6	0	0	8.2	sw.	21	nw.	7	13	11	7	4.4	73
Pensacola [4]	56	54	79	1,011.9	1,013.9	−2.0	84	69	76.5	−2.6	92	31	56	7	23	0	64	70	4.45	+1.1	4.09	3	3	0	0	7.8	w.	31	nw.	6	14	9	8	4.5	82
Anniston	618	6	32	995.3	1,014.6	−1.0	84	55	69.4	+.3	93	24	43	8	40	17	56	68	2.89	−1.0	1.50	6	6	0	0	----	ne.	--	------	--	9	15	7	----	--
Birmingham [2]	700	5	63	989.2	1,014.2	−2.7	83	57	69.8	+.5	91	12	44	8	38	10	56	64	2.43	−1.5	1.24	5	5	0	0	7.7	n.	28	sw.	2	9	13	9	5.3	66
Mobile [4]	57	86	161	1,011.9	1,013.9	−1.7	86	67	76.1	+1.7	93	22	54	8	27	0	63	71	5.50	+1.2	2.49	6	6	0	0	8.3	s.	34	nw.	6	11	13	7	4.6	75
Montgomery [4]	218	92	105	1,005.8	1,013.5	−2.4	86	64	74.9	+1.5	95	24	53	8	30	1	59	64	3.23	−.6	2.13	6	5	0	0	6.8	n.	31	nw.	6	14	9	8	4.2	82
Meridian [4]	375	67	92	1,000.7	1,013.9	−1.3	84	62	72.8	+1.5	91	22	48	8	34	4	61	71	4.72	+.4	1.91	7	9	0	0	5.6	n.	22	w.	6	12	9	10	5.1	71
Vicksburg [4]	247	82	102	1,005.1	1,013.9	−1.3	83	64	72.9	+.7	91	23	54	7	28	1	62	76	3.95	−.4	2.21	6	8	0	0	7.6	n.	34	nw.	6	10	9	12	5.4	78
New Orleans C. O.	53	76	84	1,011.9	1,013.9	−1.3	86	70	78.4	+3.0	91	21	62	6	20	0	66	70	2.32	−2.3	1.45	5	5	0	0	6.3	sw.	21	ne.	17	9	10	12	5.5	78
New Orleans A. P. [3]	30	6	52	1,011.9	1,013.5	-----	87	67	76.6	-----	92	17	54	8	27	0	66	74	1.74	-----	-----	3	5	0	0	----	s.	--	------	--	11	10	10	5.3	--
WEST GULF									75.9	+1.6								74	3.86	−.1														6.0	
Shreveport [2]	181	5	64	1,004.4	1,013.5	−1.1	84	64	73.8	+.7	91	23	48	7	30	2	63	74	6.92	+2.7	2.83	9	8	0	0	8.5	s.	32	w.	5	8	9	14	6.0	74
Fort Smith [2]	463	6	30	997.0	1,012.9	−.3	80	58	69.0	−.6	90	1	43	7	34	21	58	73	5.41	+.6	2.21	11	11	0	0	7.3	ne.	38	8sw.	10	7	11	13	6.2	59
Little Rock [2]	265	26	58	1,001.4	1,014.2	.0	79	60	69.9	−.4	89	23	48	7	32	9	58	71	4.56	−.2	1.36	12	7	0	0	7.8	ne.	28	nw.	10	9	9	13	6.1	65
Austin [2]	621	5	41	990.9	1,012.2	−.7	87	65	76.2	+1.6	94	31	52	7	30	0	64	72	4.48	−.2	1.66	5	10	0	0	9.7	s.	34	nw.	26	8	15	8	5.3	71
Brownsville [2]	20	5	54	1,008.5	1,010.5	−1.4	89	72	80.0	+1.4	92	30	64	7	25	0	71	82	2.78	+.2	1.64	7	4	0	0	12.5	se.	39	e.	26	3	17	11	6.5	71
Corpus Christi [2]	44	6	33	1,011.2	1,011.9	−1.0	88	70	78.8	+4.3	92	27	64	21	24	0	71	84	1.77	-----	1.06	5	5	0	0	11.5	se.	34	se.	11	10	10	11	5.7	63
Dallas [2]	488	34	45	994.2	1,012.5	−.4	84	64	73.8	+.9	94	22	49	7	33	4	62	72	7.79	+3.3	4.05	9	8	0	0	11.0	s.	35	s.	8	8	9	14	6.0	71
Fort Worth [2]	706	40	56	998.8	1,012.9	.0	83	63	73.2	+1.0	92	16	50	7	32	4	61	72	4.34	−.3	1.84	10	8	0	0	11.2	s.	36	s.	8	8	10	13	5.9	66
Galveston [4]	54	122	129	1,011.2	1,013.2	−1.4	82	73	77.4	+2.6	90	31	63	6	17	0	70	82	1.73	−1.7	1.20	5	4	0	0	11.7	s.	41	w.	27	8	13	10	5.4	69
Houston [4]	138	157	190	1,007.8	1,012.9	−1.0	86	69	77.6	+2.1	92	17	59	7	24	0	67	79	5.55	+1.0	1.92	8	8	0	0	10.1	se.	30	n.	6	4	13	14	6.4	50
Laredo [2]	418	10	38	995.3	1,009.8	-----	94	72	83.2	+2.2	110	1	65	7	38	0	66	62	1.23	−2.5	.91	3	5	0	0	----	se.	--	------	--	6	10	15	6.3	--
Palestine	510	64	72	995.6	1,013.2	−.7	82	65	73.5	+.8	90	30	55	7	26	0	63	72	1.56	−3.0	.61	7	8	0	0	7.1	s.	20	ne.	17	8	7	16	6.2	63
Port Arthur [4]	34	59	134	1,011.9	1,012.9	−1.3	85	70	77.5	+2.3	92	31	58	7	22	0	66	80	4.29	+.2	1.67	7	5	0	0	12.2	s.	34	2 w.	11	9	10	12	5.8	71
San Antonio [2]	794	6	51	987.1	1,011.5	−1.0	90	66	78.2	+3.1	97	1	52	7	32	0	64	68	1.59	−1.6	1.13	4	4	0	0	9.8	se.	5	nw.	11	10	11	10	5.8	68

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MAY 1948—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air, Averages: Mean maximum	Averages: Mean minimum	Averages: Mean	Averages: Departure from normal	Extremes: Highest	Extremes: Date	Extremes: Lowest	Extremes: Date	Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Days with 0.01 inch or more	Days with thunderstorms	Total snowfall (unmelted)	Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Maximum velocity: Miles per hour	Maximum velocity: Direction	Maximum velocity: Date	Character of day (sunrise to sunset), number of days: Clear	Partly cloudy	Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
OHIO VALLEY AND TENNESSEE	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p.h.					0–8	4–7	8–10	0–10	%
									63.4	−.5								69	3.08	−.7														6.3	
Chattanooga [2]	762	6	66	986.8	1,013.9	−2.0	82	54	67.8	+2.3	90	12	41	8	41	27	55	68	2.96	−.8	.97	8	7	0	0	7.3	n.	33	se.	6	11	8	12	5.5	68
Knoxville [2]	995	27	71	979.0	1,014.2	−1.7	79	56	67.4	+.7	87	11	43	8	37	40	53	64	3.28	−.5	1.42	7	5	0	0	8.1	sw.	37	sw.	4	8	10	13	5.8	59
Memphis [5]	399	5	49	999.7	1,013.5	−1.4	81	59	70.0	+.2	90	23	49	8	36	16	57	66	2.28	−1.9	1.05	8	4	0	0	7.5	n.	29	nw.	2	8	9	14	5.9	73
Nashville [2]	546	5	72	994.6	1,014.2	−1.7	79	56	67.7	−.5	88	30	44	8	37	27	55	66	1.65	−2.2	.46	7	5	0	0	8.6	n.	40	nw.	2	10	9	12	5.7	67
Lexington [2]	989	4	58	979.3	1,014.9	−.7	73	52	62.3	−2.0	85	11	42	5	32	121	52	72	3.56	−.2	.89	11	7	0	0	----	ne.	--	------	--	4	17	10	6.1	--
Louisville [2]	525	5	54	997.3	1,014.2	−1.4	76	54	65.1	.0	88	10	46	8	37	64	51	65	2.63	−1.1	.80	9	6	0	0	7.2	s.	33	sw.	2	4	12	15	7.0	62
Evansville [2]	431	6	40	999.0	1,014.2	−1.0	75	52	63.8	−.5	85	10	42	5	35	81	53	70	4.19	+.3	1.84	10	9	0	0	7.9	nw.	32	ne.	1	6	10	15	6.6	71
Indianapolis [2]	823	5	54	984.8	1,014.2	−1.0	72	50	60.8	−.6	85	10	41	7	33	155	48	67	3.26	----	1.00	10	3	0	0	9.8	ne.	34	nw.	7	8	10	13	5.9	61
Terre Haute [2]	575	4	36	994.2	1,014.9	.0	73	49	61.0	−2.4	85	21	38	5	35	146	50	69	3.33	−.5	1.08	10	6	0	0	8.7	n.	30	w.	2	8	11	12	6.0	63
Cincinnati [4]	627	135	148	991.9	1,014.9	−.7	74	54	64.0	+.9	88	11	45	7	33	89	50	69	2.81	−.9	.81	9	7	0	0	5.0	nw.	19	nw.	21	3	14	14	6.5	--
Columbus [4]	822	90	110	984.4	1,013.5	−2.1	71	51	61.0	−1.3	87	11	39	8	31	155	49	70	3.34	−.2	1.22	12	7	0	0	9.5	n.	35	sw.	2	8	9	14	5.9	61
Dayton [2]	1,003	6	55	978.3	1,014.2	−.7	70	49	59.8	−2.0	83	11	35	8	30	180	48	68	2.41	−1.2	.60	8	4	0	0	10.7	ne.	36	w.	7	8	10	13	5.9	--
Elkins [2]	1,947	5	45	943.4	1,014.2	−2.1	70	46	57.7	.0	87	10	32	20	42	234	50	80	4.51	+.5	1.07	17	9	0	0	7.2	w.	34	nw.	17	1	9	21	7.8	51
Parkersburg	637	77	84	------	------	-----	73	51	62.2	−1.6	91	11	41	20	37	133	----	--	2.79	−.6	.71	11	6	0	0	6.8	nw.	28	nw.	17	7	9	15	6.4	57
Pittsburgh [2]	842	39	54	967.5	1,012.9	−2.3	70	49	59.8	−.4	89	11	38	8	33	193	48	69	3.17	.0	.60	14	4	0	0	10.6	nw.	31	n.	21	4	11	16	6.9	50
LOWER LAKES																																			
									54.9	−1.9								72	3.85	+.5														6.4	
Buffalo [2]	768	34	96	987.5	1,013.2	−1.7	64	43	53.2	−2.7	84	27	33	8	34	372	45	76	3.12	.0	.96	15	4	T	0	12.1	ne.	44	sw.	7	4	13	14	6.9	61
Canton	448	10	61	995.9	1,011.9	−1.6	64	43	53.4	−.8	83	28	34	3	36	365	43	70	3.23	+.2	.70	14	1	0	0	7.0	w.	24	sw.	8	6	8	17	6.8	54
Oswego	335	71	85	1,000.3	1,012.9	−1.7	58	44	51.2	−2.5	81	28	35	8	31	431	42	74	3.49	+.4	.88	15	5	T	0	7.8	w.	28	w.	12	8	7	16	6.6	48
Rochester [2]	523	4	69	992.9	1,013.2	−2.0	63	43	53.4	−2.7	85	27	32	1	40	367	44	76	3.39	+.4	.76	16	4	.5	0	9.3	n.	38	sw.	8	6	9	16	6.9	55
Syracuse [2]	596	5	57	998.3	1,013.2	−2.0	65	43	54.2	−2.1	82	27	32	2	39	345	44	72	3.87	+.9	.72	17	6	T	0	9.0	nw.	30	sw.	8	5	10	16	6.9	45
Erie [4]	714	57	81	986.8	1,013.5	−1.7	62	46	54.3	−2.5	73	27	30	8	40	333	45	76	3.79	+.4	1.03	16	6	T	0	7.6	w.	25	w.	7	7	14	10	6.0	41
Cleveland [2]	762	27	54	986.1	1,013.9	−1.3	68	45	56.6	−1.5	86	11	35	24	37	268	46	69	4.39	+1.3	1.04	14	3	0	0	9.8	n.	34	w.	21	6	11	14	6.4	65
Sandusky	629	5	67	991.2	1,014.2	−1.0	66	48	57.3	−1.9	79	28	37	8	31	237	----	--	3.95	+.8	.97	14	5	0	0	8.3	e.	30	nw.	16	8	11	12	5.8	63
Toledo [2]	628	5	47	991.2	1,014.2	−1.0	67	46	56.4	−1.6	84	28	33	8	34	268	46	70	4.03	+.5	1.33	16	5	0	0	9.9	ne.	34	n.	21	7	10	14	6.4	56
Fort Wayne [2]	857	5	34	983.4	1,014.2	−1.0	69	47	58.0	−1.2	83	28	33	8	38	227	48	71	4.16	+.3	1.81	11	3	0	0	7.8	n.	34	n.	7	13	6	12	5.4	68
Detroit [2]	730	5	77	988.2	1,014.6	−.6	66	45	55.4	−1.4	84	28	35	8	32	298	42	66	4.96	+.2	2.53	12	3	0	0	9.1	n.	36	nw	10	7	11	13	6.4	59
UPPER LAKES																																			
									51.7	−.8								66	2.44	−.8														5.4	
Alpena	609	5	89	992.6	1,014.9	.0	58	40	49.3	−1.2	85	20	33	8	38	487	39	69	2.05	−1.0	.76	6	2	.1	0	10.0	nw.	39	nw.	21	8	8	15	6.1	60
Escanaba	612	51	72	993.2	1,015.6	+.4	58	40	48.8	−.8	76	22	32	7	34	501	38	69	1.18	−1.8	.67	8	1	T	0	11.7	n.	43	n.	21	10	10	11	5.6	66
Grand Rapids [4]	707	70	244	989.2	1,014.9	.0	66	45	55.4	−2.6	78	31	33	8	31	298	42	68	3.37	−.1	1.58	12	4	T	0	10.1	ne.	37	sw.	20	13	8	10	5.0	64
Lansing [4]	878	5	90	982.7	1,014.9	.0	65	44	54.2	−2.7	81	28	33	8	32	335	42	66	5.35	+1.9	2.88	14	4	T	0	7.5	n.	26	nw.	21	8	12	11	5.7	56
Marquette	734	44	73	989.2	1,016.6	+1.4	56	40	48.0	−1.0	87	20	30	9	44	534	36	65	.56	−2.4	.19	5	3	T	0	8.2	n.	28	s.	15	9	11	11	5.6	65
Sault Sainte Marie [2]	614	10	52	992.6	1,015.2	.0	60	37	48.3	+.1	77	26	29	10	42	516	36	64	1.46	−1.2	.96	6	3	T	0	11.1	nw.	36	nw.	21	8	12	11	5.9	63
Chicago [2]	673	5	38	990.9	1,015.6	+.7	65	45	55.0	−2.8	83	20	34	8	39	308	42	67	4.80	+1.3	1.72	11	1	0	0	8.9	n.	34	w.	16	12	9	10	5.2	63
Green Bay	617	5	32	993.6	1,016.3	+2.1	65	43	53.8	−1.1	90	20	30	8	43	353	40	62	.91	−2.6	.31	10	5	0	0	8.1	n.	26	w.	20	9	13	9	5.4	65
Milwaukee [2]	681	33	66	991.2	1,016.9	+2.3	61	43	52.3	−.3	82	20	32	8	38	399	40	67	4.05	+.7	2.06	12	3	0	0	12.5	n.	35	ne.	10	11	10	10	5.1	62
Duluth [4]	1,133	5	47	975.3	1,017.3	+2.7	62	41	51.7	+4.4	86	20	27	8	34	436	36	60	.64	−2.6	.21	7	0	0	0	11.4	ne.	34	w.	15	16	11	4	3.9	77
NORTH DAKOTA																																			
									55.6	+2.1								57	1.05	−1.2														6.0	
Fargo [2]	940	5	47	981.7	1,015.9	+2.4	69	42	56.0	+.9	92	19	30	6	43	300	40	58	1.05	−1.8	.62	7	3	0	0	12.5	n.	37	w.	15	8	14	9	5.5	68
Bismarck [2]	1,677	5	41	955.6	1,016.3	+2.4	70	43	56.5	+3.5	96	19	33	10	43	301	41	59	.78	−1.5	.46	6	1	0	0	13.4	e.	45	nw.	15	5	12	14	6.5	75
Devils Lake	1,478	11	44	963.1	1,016.6	+2.7	66	43	54.6	+2.0	94	19	30	9	38	342	39	55	1.37	−.7	1.13	6	3	0	0	9.4	ne.	31	ne.	20	10	11	10	----	--
Grand Forks [2]	832	4	41	986.5	1,016.9	+3.0	69	41	54.8	-----	96	19	28	6	43	337	38	59	.72	----	.28	7	2	.6	0	----	n.	--	------	--	10	11	10	----	--
Williston	1,878	42	50	948.2	1,015.2	+2.0	68	44	56.0	+2.0	94	18	30	10	36	313	38	55	1.35	−.7	.50	8	1	0	0	8.9	se.	34	nw.	15	6	14	1	1 6.	07
UPPER MISSISSIPPI																																			
									60.0	−1.1								65	2.60	−1.5														5.5	
Minneapolis-St. Paul [2]	919	43	74	982.7	1,015.9	+2.7	69	48	58.5	+.8	91	20	34	8	33	228	42	58	.74	−2.9	.36	7	1	T	0	10.1	ne.	29	se.	14	11	7	13	5.6	61
La Crosse [2]	672	5	29	989.8	1,015.9	+2.0	68	46	56.9	−1.0	92	20	30	8	37	266	44	66	2.47	−1.3	.98	12	2	0	0	8.0	n.	26	w.	16	12	9	10	5.4	65
Madison [2]	974	27	39	981.0	1,016.6	+2.0	67	43	55.2	−2.4	84	20	30	8	42	310	43	65	2.90	−1.0	1.13	11	5	0	0	9.8	ne.	31	w.	16	9	12	10	5.5	64
Charles City	1,015	10	51	979.7	1,016.6	+2.4	68	47	57.5	−.3	93	20	38	8	36	247	----	--	2.42	−1.9	.79	8	4	0	0	5.8	n.	23	se.	14	14	4	13	5.0	57
Moline [2]	606	6	50	993.6	1,015.9	+1.3	69	46	57.8	−2.5	85	20	39	3	39	232	46	66	2.11	−1.8	.82	11	4	0	0	8.3	e.	35	w.	16	11	8	12	5.5	63
Des Moines [4]	860	5	99	------	1,015.9	+2.4	72	50	61.2	−.1	88	20	43	7	34	153	47	64	2.05	−2.5	1.68	9	1	0	0	8.8	n.	33	n.	6	10	8	13	6.1	61
Dubuque	699	60	79	991.2	1,016.6	+2.4	68	48	58.1	−2.2	87	20	39	8	34	227	45	66	6.02	+1.8	2.58	12	6	0	0	5.2	ne.	19	s.	15	11	9	11	5.5	65
Burlington [2]	702	4	36	989.8	1,015.2	+1.3	72	48	60.4	−2.2	86	27	38	3	36	167	48	68	2.26	−1.9	.70	11	6	0	0	9.2	ne.	35	w.	16	13	6	12	5.5	68
Cairo	357	5	99	1,001.7	1,014.2	−.4	78	59	68.4	−1.0	90	21	49	7	30	24	----	--	1.97	−1.7	.90	9	3	0	0	8.5	ne.	45	sw.	2	9	9	13	5.9	80
Peoria [2]	609	7	26	993.2	1,015.2	+.3	72	48	59.6	−1.1	86	28	40	3	33	180	47	65	2.55	−1.5	.89	10	6	0	0	9.1	ne.	31	w.	16	9	12	10	5.5	66
Springfield, Ill. [4]	636	5	191	994.6	1,018.0	+3.8	73	50	61.4	+.9	86	28	42	25	34	145	48	66	2.52	−1.9	.96	10	5	0	0	10.3	n.	42	w.	16	9	11	11	5.5	72
St. Louis [4]	568	33	59	994.2	1,014.6	+.4	74	56	65.3	−1.7	85	28	47	7	25	65	----	64	3.17	−1.2	.78	9	5	0	0	9.9	ne.	40	w.	1	9	11	11	----	68
MISSOURI VALLEY																																			
									62.4	+.4								66	2.32	−1.7														6.0	
Columbia, Mo. [4]	784	6	66	986.8	1,014.9	+.3	75	53	64.2	−.8	85	21	40	7	32	80	51	70	3.71	−.8	1.65	10	4	0	0	6.5	e.	31	n.	1	10	9	12	5.5	75
Kansas City [2]	963	38	76	980.0	1,014.6	+1.1	76	55	65.5	+.7	87	20	43	13	31	79	55	63	1.72	−2.2	.66	9	5	0	0	9.4	ne.	34	nw.	6	7	12	12	6.0	64
St. Joseph [2]	967	5	51	979.7	1,014.2	+.7	76	52	64.2	.0	86	22	39	7	33	84	52	70	2.88	−1.8	1.74	10	9	0	0	7.2	s.	26	nw.	6	9	9	13	6.0	60
Springfield, Mo. [2]	1,324	5	50	967.5	1,014.2	.0	73	54	63.2	−.5	86	21	40	7	30	99	52	73	3.48	−1.7	1.49	9	9	0	0	10.1	e.	42	w.	10	6	8	17	6.4	67
Topeka [4]	987	65	87	979.0	1,014.6	+1.4	76	54	65.3	+1.0	89	9	43	7	31	76	53	72	4.48	.0	2.12	12	7	0	0	8.4	s.	39	n.	1	8	9	14	6.4	--
Lincoln [4]	1,189	6	81	971.9	1,014.6	+1.7	75	52	63.0	+1.3	89	20	40	12	34	126	48	67	2.79	−1.3	1.39	7	4	0	0	8.6	n.	27	w.	5	9	9	13	5.8	71
Norfolk, Nebr. [2]	1,551	5	38	959.7	1,014.9	+1.4	73	49	60.7	+.5	94	20	38	6	40	180	46	62	1.01	−2.9	.41	6	8	0	0	----	n.	--	------	--	9	9	13	5.7	--
Omaha [2]	1,105	5	68	975.3	1,014.9	+1.4	75	50	62.7	+.3	90	20	40	12	36	123	47	62	.56	−3.2	.19	5	3	0	0	10.4	n.	34	se.	8	9	8	14	5.9	63
Valentine	2,598	46	54	923.8	1,015.2	+2.0	70	46	57.8	+1.6	92	18	32	6	45	273	41	62	1.34	−1.5	.50	8	2	0	0	10.0	e.	29	s.	18	7	15	9	5.8	70
Huron [2]	1,301	5	41	968.8	1,015.6	+1.7	70	45	57.8	+1.4	93	20	31	6	38	254	44	65	1.26	−1.7	.90	5	1	0	0	11.9	se.	41	nw.	14	7	11	13	6.3	66

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MAY 1948—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Character of day (sunrise to sunset), number of days: Clear	Character of day (sunrise to sunset), number of days: Partly cloudy	Character of day (sunrise to sunset), number of days: Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p. h.					0-3	4-7	8-10	0-10	%
NORTHERN SLOPE																																			
									54.9	+1.6								60	2.13	+.1														7.0	
Billings [2]	3,570	16	39	889.3	1,011.9	−1.3	69	45	57.1	+1.0	94	18	33	2	40	284	41	57	1.25	----	.64	11	4	T	0	11.7	ne.	45	nw.	14	6	5	20	7.0	54
Butte	5,533	44	58	827.6	1,014.2	----	61	34	47.6	+.2	80	17	19	14	45	536	34	64	2.55	+.8	.77	14	9	11.0	0	----	se.	--	------	--	3	7	21	7.6	--
Glasgow	2,086	34	53	940.1	1,014.2	----	71	44	57.9	+2.2	102	18	31	3	41	282	40	55	2.48	+.6	1.78	9	2	T	0	----	e.	--	------	--	4	12	15	6.6	--
Great Falls [2]	3,657	16	75	886.9	1,013.2	----	63	43	53.0	−1.6	82	17	32	9	34	373	39	63	3.43	+1.2	1.40	15	5	2.4	0	12.2	sw.	47	sw.	14	4	7	20	7.5	61
Havre	2,507	11	67	925.2	1,013.9	+.7	70	44	57.0	+3.6	90	31	34	11	41	276	38	54	.87	−1.2	.55	8	5	T	0	10.3	e.	34	sw.	14	2	17	12	6.7	71
Helena [2]	4,124	5	43	872.0	1,013.5	−.4	64	41	52.4	+.8	86	17	26	3	41	392	38	64	2.58	+.6	1.26	13	6	3.2	0	9.2	w.	38	nw.	4	2	9	20	7.3	54
Missoula [2]	3,263	4	32	899.8	1,013.2	−2.0	64	42	53.0	+.8	84	26	28	2	41	377	40	66	4.10	+2.4	1.31	15	6	1.0	0	8.9	nw.	36	nw.	4	4	4	23	7.8	46
Kalispell	2,973	48	56	909.9	1,012.9	−.6	62	43	52.6	+1.2	81	26	34	10	32	384	40	65	4.36	+2.9	1.68	12	4	T	0	6.0	w.	18	se.	30	4	6	21	7.4	48
Miles City [2]	2,371	5	28	929.9	1,013.5	−.4	70	46	58.0	----	98	18	30	5	36	286	42	60	1.78	----	.32	11	4	.2	0	----	se.	--	------	--	4	11	16	7.1	--
Rapid City [2]	3,259	5	56	901.1	1,014.6	−.4	66	43	54.8	+.8	91	19	29	11	42	356	40	66	1.67	−1.3	.62	10	2	1.5	0	14.1	se.	50	nw.	14	1	15	15	7.1	60
Cheyenne [2]	6,094	22	40	811.7	1,011.5	.0	66	39	52.8	+2.5	83	17	24	6	41	379	36	60	.92	−1.5	.29	10	8	T	0	10.3	s.	34	sw.	18	2	12	17	7.0	54
Lander [2]	5,352	6	30	833.4	1,012.2	−.3	69	40	54.4	+3.2	86	17	24	3	42	343	29	44	.60	−1.7	.24	5	7	T	0	9.3	sw.	42	sw.	7	8	14	9	5.4	68
Sheridan [2]	3,790	5	38	882.5	1,012.5	−1.0	70	42	56.4	+4.4	95	17	25	5	44	313	38	59	.81	−1.8	.38	6	7	.4	0	9.6	nw.	56	nw.	14	4	11	16	6.8	63
North Platte [4]	2,821	11	51	915.7	1,013.5	+.3	74	48	61.0	+2.3	94	20	33	12	44	186	42	60	2.37	−.4	1.43	4	3	0	0	7.9	s.	26	n.	8	6	13	12	6.4	67
MIDDLE SLOPE																																			
									64.6	+1.4								64	2.74	−.9														5.8	
Denver [4]	5,292	106	113	837.1	1,012.2	+.3	72	48	59.7	+3.5	88	17	32	10	39	202	37	55	1.73	−.5	.78	12	7	T	0	7.9	s.	33	ne.	30	4	13	14	6.6	65
Pueblo [2]	4,690	5	36	855.7	1,012.2	+1.0	75	46	60.3	+1.4	90	14	31	6	50	185	41	57	2.02	+.4	1.07	12	10	1.6	0	7.8	se.	35	sw.	8	3	18	10	6.5	68
Concordia	1,392	50	58	964.8	1,014.2	+.7	74	53	63.3	+.1	88	14	41	12	30	113	50	66	3.07	−1.1	1.43	8	7	0	0	8.7	s.	27	sw.	14	13	3	15	5.6	58
Dodge City [2]	2,509	5	58	926.2	1,012.5	−.4	77	52	64.2	+.7	95	21	37	12	40	125	48	63	2.62	−.3	1.00	9	8	0	0	15.5	se.	45	s.	4	11	8	12	5.5	65
Wichita [2]	1,358	52	64	965.1	1,013.2	+.3	78	54	66.0	+.9	94	21	41	12	32	83	50	62	1.86	−2.6	.95	4	6	0	0	14.5	se.	42	s.	8	9	10	12	5.7	69
Oklahoma City [4]	1,214	10	47	969.9	1,012.5	.0	80	59	69.4	+1.7	93	1	45	12	34	43	57	73	4.97	+.1	1.36	10	6	0	0	8.9	s.	26	s.	9	12	11	8	5.0	68
Tulsa [2]	674	6	60	989.2	1,013.2	----	80	58	69.0	+1.8	90	21	43	7	34	33	57	73	2.94	−2.1	1.11	8	10	0	0	10.2	se.	43	nw.	10	8	10	13	5.8	57
SOUTHERN SLOPE																																			
									72.4	+2.1								57	3.05	.0														5.3	
Abilene [2]	1,755	4	59	951.2	1,010.8	−.7	87	63	74.8	+4.2	99	5	52	11	35	13	55	60	3.05	−.9	1.54	9	7	0	0	14.5	s.	45	ne.	31	10	13	8	5.3	67
Amarillo [2]	3,604	5	42	887.8	1,011.4	−.5	79	52	65.8	+3.7	94	21	39	4	42	90	46	58	2.82	.0	1.19	10	8	0	0	14.8	s.	43	nw.	16	6	16	9	5.8	69
Del Rio	960	63	71	976.6	1,009.1	−.7	91	70	80.3	+3.3	103	1	59	7	32	0	60	56	1.70	−1.2	.94	5	6	0	0	9.8	se.	40	nw.	23	10	14	7	5.0	73
Roswell	3,614	6	29	889.3	1,010.2	.0	86	52	68.9	−.5	97	30	41	4	50	24	38	43	.92	−.2	.68	8	9	0	0	10.1	s.	41	w.	23	9	15	7	5.1	77
Wichita Falls	1,030	4	49	975.6	1,011.5	----	84	60	72.2	−.1	99	1	45	12	36	22	58	68	6.74	+2.1	2.38	8	7	0	0	----	------	--	------	--	12	11	8	----	--
SOUTHERN PLATEAU																																			
									70.5	+2.4								28	.18	−.2														3.1	
El Paso [2]	3,916	35	85	883.2	1,007.8	−.7	89	60	74.6	+4.6	98	16	51	10	36	0	35	29	T	−.3	T	0	1	0	0	11.4	se.	42	n.	25	20	9	2	3.0	92
Albuquerque [2]	5,314	5	45	836.1	1,008.5	−.6	81	53	66.7	+3.4	92	16	40	4	42	61	35	38	.94	+.3	.64	5	5	0	0	11.8	se.	49	se.	23	16	8	7	4.6	75
Flagstaff	6,907	34	48	789.7	1,013.2	+4.7	71	35	53.0	+2.3	80	15	26	2	45	368	21	30	.13	−.8	.13	2	1	0	0	----	sw.	--	------	--	18	7	6	3.8	--
Phoenix [4]	1,107	39	87	969.5	1,007.8	−.7	93	61	77.0	+2.0	102	15	52	1	38	0	32	22	T	−.1	T	0	0	0	0	7.0	e.	22	w.	8	21	6	4	2.8	96
Tucson [2]	2,555	5	39	921.8	1,008.1	−.7	92	58	75.1	+1.9	101	16	49	2	44	0	28	19	0	−.2	0	0	0	0	0	7.1	se.	28	sw.	18	19	9	3	3.0	95
Yuma	142	9	54	1,003.4	1,008.1	−.7	94	59	76.7	+.5	104	15	51	19	42	1	38	29	0	.0	.0	0	0	0	0	6.0	w.	27	w.	18	29	1	1	1.3	99
MIDDLE PLATEAU																																			
									55.2	+1.1								41	.47	−.6														5.5	
Ely [2]	6,262	8	41	806.3	1,011.5	----	68	30	48.8	+.9	82	16	14	9	52	504	24	38	T	−1.4	T	0	2	T	0	13.0	s.	56	s.	18	5	18	8	5.7	85
Reno [2]	4,527	20	52	860.1	1,013.2	+.3	68	36	52.0	−.9	86	15	21	1	53	403	32	51	1.25	+.6	.47	5	2	T	0	9.3	w.	38	sw.	17	8	14	9	5.5	60
Winnemucca	4,339	5	56	864.9	1,011.9	−1.3	70	38	54.4	+.5	90	26	26	1	56	340	33	48	1.07	+.2	.56	6	4	T	0	8.5	sw.	29	sw.	7	3	15	13	6.5	51
Modena	5,473	10	46	830.3	1,008.8	+1.4	72	35	53.5	.0	84	15	21	9	46	354	----	--	T	−.8	T	0	1	.0	0	11.0	sw.	43	sw.	7	12	13	6	4.5	81
Salt Lake City [2]	4,357	32	58	863.9	1,010.2	+1.1	74	45	59.0	+3.3	90	16	28	3	43	234	32	40	.26	−1.5	.22	4	2	T	0	9.9	se.	33	nw.	7	10	13	8	5.4	68
Grand Junction [2]	4,602	5	26	856.8	1,009.8	−.4	78	49	63.8	+2.7	92	16	34	10	43	118	28	30	.22	−.6	.18	2	5	0	0	10.7	se.	45	s.	7	9	9	13	5.6	76
NORTHERN PLATEAU																																			
									53.2	−1.1								67	3.23	+1.4														7.2	
Baker [4]	3,471	36	54	893.3	1,013.9	−1.7	62	39	50.8	−.9	85	27	27	25	38	449	38	67	1.93	+.4	.38	15	3	.3	0	6.2	n.	20	nw.	18	2	10	19	7.5	46
Meacham [1]	4,056	7	28	874.7	1,014.9	----	54	36	45.4	----	79	26	24	1	32	607	39	80	4.36	----	.73	21	8	6.4	0	----	nw.	--	------	--	2	5	24	8.2	--
Boise [2]	2,739	5	49	916.7	1,011.5	−2.4	69	44	56.3	+.2	93	27	27	2	41	304	38	56	.91	−.5	.27	7	4	T	0	9.9	nw.	37	s.	27	6	8	17	6.7	63
Lewiston	1,436	4	23	962.1	1,013.5	----	66	46	55.7	----	93	27	32	2	36	310	46	73	4.80	----	1.63	20	6	0	0	----	w.	--	------	--	2	9	20	7.7	--
Pocatello [2]	4,478	5	31	860.5	1,012.5	+.3	69	39	54.2	+1.2	86	16	25	5	43	343	33	48	.93	−.8	.49	8	5	1.0	0	10.2	sw.	33	w.	4	12	10	9	5.3	72
Ellensburg [2]	1,735	5	58	951.9	1,014.2	----	64	41	52.3	−3.2	84	26	25	2	35	399	41	70	3.09	+2.5	1.14	15	4	T	0	----	nw.	--	------	--	3	15	13	6.7	--
Lacrosse	1,544	5	43	958.3	1,013.9	----	65	43	54.2	----	90	26	27	2	43	349	46	76	4.59	----	1.52	16	4	0	0	----	sw.	--	------	--	2	9	20	7.6	--
Spokane [2]	1,929	6	51	944.8	1,013.9	−.7	62	44	52.8	−2.7	88	26	31	1	36	395	42	70	5.71	+4.3	1.67	16	2	T	0	7.6	sw.	26	sw.	3	2	9	20	7.9	54
Yakima [2]	1,076	4	54	974.6	1,013.5	−1.4	70	44	57.2	−1.0	91	26	26	2	39	263	42	62	2.76	+2.3	.76	12	4	0	0	----	nw.	--	------	--	2	12	17	7.2	--
NORTH PACIFIC COAST																																			
									53.7	−.5								75	4.12	+2.0														7.6	
Kelso [2]	750	38	76	------	------	----	64	43	53.6	----	83	24	33	1	38	354	46	78	5.19	----	1.42	14	2	0	0	----	------	--	------	--	3	5	23	7.9	--
North Head	211	5	55	1,008.1	1,015.9	−2.7	56	47	51.6	+.7	70	15	41	1	24	412	46	84	6.59	+3.6	2.63	19	0	0	0	15.0	nw.	54	s.	3	2	7	22	7.9	38
Seattle [4]	125	90	321	1,010.8	1,015.6	−2.0	62	48	55.0	−1.6	81	24	40	2	29	313	46	76	4.67	+2.8	1.35	15	2	0	0	9.4	s.	36	sw.	12	4	9	18	7.4	38
Tacoma	194	172	201	1,008.5	1,015.2	−2.4	61	47	54.0	−.1	77	24	39	2	27	340	----	--	4.39	+2.3	1.13	17	3	0	0	7.9	n.	30	sw.	12	2	12	17	7.2	32
Tatoosh Island	86	5	61	1,012.2	1,015.2	−2.7	54	46	50.5	+.9	64	19	40	2	19	453	46	86	8.05	+4.0	1.69	19	3	0	0	13.0	s.	42	e.	15	3	8	20	7.5	33
Burns	4,162	35	47	870.6	1,012.9	----	63	37	50.2	−.7	85	26	23	2	44	462	35	59	1.25	+.5	.54	9	2	.2	0	----	n.	--	------	--	3	7	21	7.6	--
Eugene [2]	433	4	35	1,000.3	1,016.3	----	65	44	54.4	----	80	23	32	1	38	328	47	78	3.25	----	.80	17	3	0	0	----	s.	--	------	--	1	12	18	7.7	--
Medford [2]	1,329	29	58	967.8	1,015.6	−1.0	67	43	54.9	−3.3	87	23	33	4	45	316	42	68	1.63	+.5	.67	12	3	0	0	----	n.	--	------	--	4	5	22	7.6	--
Portland, Oreg. [4]	154	68	106	1,009.8	1,015.6	−2.0	65	49	57.2	+.3	85	24	41	1	29	253	46	73	3.88	+1.7	1.23	12	3	0	0	5.8	nw.	23	sw.	2	4	6	21	7.8	47
Roseburg	510	45	76	998.0	1,016.9	−1.1	66	45	55.6	−.4	87	23	33	1	40	298	45	70	2.30	+.4	.48	18	0	0	0	4.8	nw.	21	sw.	3	1	7	23	7.9	39

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MAY 1948—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Character of day (sunrise to sunset), number of days: Clear	Character of day (sunrise to sunset), number of days: Partly cloudy	Character of day (sunrise to sunset), number of days: Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
MIDDLE PACIFIC COAST	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	xF.	°F.	°F.	°F.		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
Eureka	60	72	88	1,016.6	1,019.0	.0	57	47	52.0	.0	65	15	39	1	21	398	47	72 82	1.88	+.8						7.9	n.	35	nw.	18	1	9	21	5.9 7.8	46
Red Bluff [2]	353	5	26	1,001.7	1,014.2		73	50	61.7	−4.6	88	5	38	8	34	134	46	60	1.79	+.7	.67	11	3	0	0	7.3	nw.	34	w.	7	5	9	17	6.5	67
Sacremento [4]	66	92	115	1,012.5	1,015.2	+1.7	73	49	61.0	−2.3	85	23	42	1	32	144	47	69	3.04	+2.3	1.93	6	0	0	0	7.0	s.	18	w.	7	6	7	8	4.4	71
San Francisco [4]	155	112	132	1,011.5	1,017.3	+1.7	61	50	55.6	−1.2	70	15	47	1	17	293	47	78	.54	−.3	.36	4	1	0	0	10.7	w.	28	w.	10	13	7	11	5.0	58
SOUTH PACIFIC COAST																																			
									63.8	+.3								63	.32	−.1														4.2	
Fresno [2]	327	5	34	1,002.4	1,014.2	+1.0	80	51	65.2	−2.0	92	16	43	9	40	67	44	52	.96	+.5	.46	4	1	0	0	9.1	nw.	30	nw.	17	18	8	5	3.6	87
Los Angeles	338	236	263	1,001.7	1,013.9	−.3	74	54	63.9	+1.7	87	15	47	20	29	75	50	66	T	−.4	T	0	0	0	0	6.3	w.	24	w.	18	18	6	7	4.0	76
San Diego [2]	87	20	55	1,011.2	1,014.2	+1.0	70	55	62.4	+1.1	81	4	49	21	26	84	52	70	.01	−.3	.01	1	0	0	0	7.5	sw.	24	w.	18	12	13	6	4.9	64
PANAMA CANAL																																			
Balboa Heights [6]	118	5	97	-------	1,009.5	-----	89	75	82.0	+1.1	96	15	71	8	20	0	75	85	5.17	−2.6	----	21	9	0	0	6.2	nw.	24	s.	31	0	9	22	8.1	--
Cristobal [6]	27	37	92	-------	1,010.0	-----	85	77	81.0	−.4	88	21	75	30	13	0	75	84	7.29	−5.1	----	18	5	0	0	8.6	ne.	24	s.	22	0	10	21	7.4	--
ALASKA																																			
Anchorage [2]	132	6	44	1,007.1	1,012.2	-----	56	36	46.2	+1.2	67	13	25	3	34	585	32	62	.03	−.5	.02	2	0	.0	.0	6.4	nw.	28	se.	18	1	6	24	8.1	--
Annette Island	113	5	53	1,009.5	1,013.5	-----	57	45	50.7	+.2	70	27	34	1	25	445	44	80	2.25	−1.9	.39	18	0	.0	.0	----	se.	--	------	--	2	4	25	8.1	--
Barrow	29	5	27	1,020.7	1,021.0	-----	21	9	14.8	−4.6	32	28	−15	3	24	1551	14	94	.04	−.1	.03	2	0	.4	19.7	10.9	e.	26	------	30	2	5	24	8.2	--
Bethel [2]	28	5	31	1,010.2	1,011.5	-----	50	32	40.8	+.4	63	25	19	5	27	755	34	80	.89	.0	.24	12	0	1.0	.0	8.0	nw.	--	------	--	2	13	16	7.5	--
Cordova [2]	45	5	32	1,010.8	1,012.5	-----	54	34	44.2	+.4	68	13	24	5	37	645	40	85	4.14	−2.8	1.72	20	0	.0	.0	----	se.	28	se.	18	2	8	21	7.8	--
Fairbanks [2]	455	5	63	994.9	1,012.2	-----	58	34	45.8	−1.1	72	25	16	4	31	593	42	74	1.39	+1.1	.60	7	1	1.0	.0	7.2	nw.	24	e.	18	5	13	13	6.2	--
Galena	139	4	66	1,006.1	1,010.8	-----	52	32	42.4	−.3	70	25	9	3	27	699	30	62	.51	−.8	.16	7	1	T	.0	----	n.	35	n.	2	4	13	14	6.5	--
Gambell	32	5	32	1,014.2	1,015.2	-----	32	25	28.6	−1.1	42	20	14	5	16	1128	27	90	.02	−.5	----	2	----	.1	.3	14.0	ne.	34	se.	21	3	4	24	8.0	--
Juneau [2]	80	6	30	1,012.5	1,013.5	-----	57	39	48.0	−.6	70	13	28	4	31	528	39	70	4.39	+1.6	1.39	17	0	.0	.0	6.3	n.	24	se.	18	1	7	23	8.0	--
Kotzebue [2]	20	5	31	1,014.2	1,014.9	-----	34	17	25.1	−4.7	45	21	−8	1	29	1239	22	88	.17	−.1	.08	4	0	1.7	6.6	6.8	ne.	26	se.	7	10	11	10	4.9	--
McGrath [2]	341	5	31	999.0	1,011.9	-----	53	32	42.4	−1.3	69	25	8	4	32	703	32	66	.39	−.7	.09	10	0	T	.0	----	n.	22	e.	18	1	8	22	7.6	--
Nome [2]	22	10	75	1,012.9	1,013.5	-----	40	25	32.4	−1.7	54	25	2	3	30	1013	28	84	.85	+.2	.70	3	0	1.5	T	9.1	n.	34	e.	7	7	9	15	6.5	--
Northway [2]	1,718	5	32	948.9	1,011.9	-----	58	34	46.2	+.3	72	27	21	4	32	582	32	62	.74	.0	.29	4	2	T	.0	4.1	w.	23	e.	24	0	11	20	7.5	--
HAWAII																																			
Honolulu [4]	38	86	98	1,016.6	1,018.0	-----	80	71	75.6	+.8	82	2	68	1	12	0	64	69	.53	−1.2	.19	12	1	0	0	10.1	e.	26	e.	8	7	21	3	5.0	73

[1] Height of barometer cistern above mean sea level on January 1, 1900, or when station was first established since January 1, 1900. When station is moved to new location or airport, the pressure is reduced to the original elevation for homogeneity. These elevations do not represent the present station elevation in most cases.

[2] Data are from airport records. Pressures adjusted to original elevations according to note 1.

[3] Barometric, hygrometric, wind, character of day, and average cloudiness data from airport records; remainder from city office records.

[4] Barometric and hygrometric data from airport records; remainder from city office records.

[5] Barometric, temperature, degree day, and hygrometric data from airport; remainder from city office records.

[6] Bihourly hygrometric data.

NOTE.—Unless otherwise indicated, data in table are city office records.

SEVERE LOCAL STORMS FOR MAY 1948

[The table hereunder contains such data as have been received concerning severe local storms that occurred during the month. A revised list will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Reno, Sedgwick, and Harvey Counties, Kans.	1	3:50-5 p. m.	[1] 1½-3½	0	$60,000	Tornado, hail, and wind.	Violent winds began 8 miles northwest of Mount Hope, near Haven. Tornado apparently formed a short distance west of Bentley; path 38 miles long; ended east of Walton at about 4:30 p. m. Vortex cloud plainly visible. Damage mostly to rural property. Hail damage to crops, $10,000.
Chase County, Kans.	1	5-5:30 p. m.	[1] 26	0	25,000	Tornado and wind.	Tornado, which occurred in area of violent winds, apparently formed 13 miles south of Clements, near the origin of tornado 1 week previous, and ended near Plymouth. Damage to rural property. Storm path 35 miles long.
Douglas County, Kans.	1	Afternoon	------	------	5,000	Hail	Occurred over most of county.
Miami County, Kans.	1	6-7:30 p. m.	[1] 5	------	30,000	do	Occurred in eastern part of county. Path 10 miles long. Some hailstones as large as hens' eggs. Loss to crops.
Osage and Shawnee Counties, Kans.	1	6-8:30 p. m.	------	0	145,000	Tornado, hail, and wind.	General wind storm, especially severe in Scranton and Burlingame area. Many barns and sheds damaged or demolished. A tornado accompanied wind storm in path ½ mile north of Overbrook to ¾ mile east. Vortex cloud did not quite reach ground. Light to moderate hail over much of wind-damaged area.
Neosho County, Kans.	1	6:25-7:30 p. m.	100-1,760	2	500,000	Tornado	Originated south of Thayer. Path 25 miles long. Passed north of Erie and ended southeast of Stark. Several vortex clouds sighted, some almost a mile from main cloud. Buildings on more than 60 farms badly damaged or completely destroyed. At least 14 families left homeless. 5 persons injured.
Boone County, Mo.	1	7:20 p. m.	------	------	2,500	Wind	Storm from southwest struck Columbia and vicinity. Many trees and chimneys damaged; power and telephone lines broken.
Miller County, Mo.	1	9:10 p. m.	[1] 12	------	25,000	do	Storm from west damaged many sign boards, power and communication lines and some buildings in Eldon and vicinity. Slight damage to crops and gardens. 3 drowned when boat capsized about 3 miles above Bagnell Dam. Path 15 miles long.

See footnote at end of table