CLIMATOLOGICAL TABLES

CONDENSED CLIMATOLOGICAL SUMMARY

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.

TABLE 1.—*Condensed climatological summary of temperature and precipitation by sections, March 1938*

[For description of tables and charts, see REVIEW, January, p. 27]

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	63.7	+7.9	Evergreen	90	[1] 29	4 stations	23	[1] 1	6.36	+0.61	Brantley	12.39	Seven Hills	1.25
Arizona	49.6	−2.1	Benson	90	12	Bright Angel Ranger Station.	−5	31	2.20	+1.16	Junipine	8.05	Douglas	.29
Arkansas	60.3	+7.7	Magnolia	91	21	Mammoth Spring	20	[1] 1	6.02	+1.29	Higden	10.71	Magnolia	3.25
California	47.4	−3.9	Brawley	89	20	Twin Lakes	−16	17	8.33	+4.62	Elk Valley	32.26	Brawley	.15
Colorado	37.8	+3.2	Holly	82	16	Hermit	−24	6	2.17	+.86	Cumbres	13.44	Trinidad	.10
Florida	69.4	+4.1	2 stations	94	[1] 6	Quincy	31	2	1.87	−1.26	Mason	5.14	West Palm Beach	.12
Georgia	61.9	+5.6	4 stations	91	[1] 22	3 stations	18	1	3.71	−1.11	Cedartown	9.03	Brooklet	1.17
Idaho	35.5	−.2	Lapwai	67	12	Obsidian (near)	−28	22	3.40	+1.59	Deadwood	9.35	Challis	.41
Illinois	49.2	+8.4	5 stations	84	[1] 21	Freeport	7	6	5.61	+2.43	Casey	12.65	2 stations	2.69
Indiana	47.8	+7.1	Bluffton	87	21	Albion	12	1	6.32	+2.57	Martinsville	10.17	Whiting	2.79
Iowa	43.7	+9.2	Keosauqua	89	21	Cresco	0	6	2.35	+.62	Washington	4.82	Harlan	.22
Kansas	51.0	+7.4	3 stations	89	21	Oberlin	12	6	2.06	+.63	LaCygne	5.44	Elkhart	.35
Kentucky	53.7	+7.3	Pippapass	86	[1] 21	2 stations	11	1	6.29	+1.60	Fords Ferry	12.00	Jenkins	3.55
Louisiana	67.4	+6.7	Abbeville	90	27	Tallulah	26	1	3.81	−.90	Alexandria	8.61	Delta Farms	.80
Maryland-Delaware	46.9	+4.5	Cumberland, Md	88	2	Mt. Savage, Md	6	1	2.72	−.85	Friendsville, Md	4.61	Delaware City, Del	1.59
Michigan	36.3	+6.6	Milford	84	22	Deer Park	−21	3	2.76	+.65	Adrain	4.82	Standish	.73
Minnesota	34.9	+8.2	Austin	80	21	Roseau	−19	3	1.51	+.33	Duluth	2.91	Redby	.19
Mississippi	64.7	+7.7	2 stations	89	26	2 stations	24	1	6.03	+.29	Fruitland Park	14.58	Biloxi	.61
Missouri	53.6	+9.6	Louisiana	90	21	Goodland	14	1	4.98	+1.72	Morehouse	10.72	Grant City	1.20
Montana	33.0	+2.2	6 stations	72	[1] 16	Wisdom	−18	22	1.27	+.32	Hebgen Dam	4.87	Browning	.11
Nebraska	43.1	+6.6	Auburn	88	21	Mumper	1	6	1.42	+.32	Purdum	2.86	Aurora	.53
Nevada	38.4	−2.0	Las Vegas	82	16	Marlette Lake	−6	30	2.11	+1.12	Marlette Lake	9.52	Sulphur	.62
New England	34.2	+1.9	3 stations	81	[1] 22	First Conn. Lake, N. H.	−36	4	2.33	−1.03	Pinkham Notch, N. H.	4.39	Presque Isle, Maine	.77
New Jersey	43.2	+4.1	Canoe Brook	85	22	4 stations	−1	4	2.15	−1.63	Burlington	4.30	Tuckerton	.90
New Mexico	44.8	+1.0	Lovington	90	25	Selsor Ranch	−18	31	.85	+.10	Dulce	4.31	Columbus	.00
New York	37.1	+4.9	Dansville	85	22	Stillwater Reservoir	−34	4	2.45	−.60	High Market	5.61	Cairo	.89
North Carolina	55.5	+5.5	2 stations	89	31	Mount Mitchell	6	1	3.30	−.90	Andrews	7.65	Swansboro	.80
North Dakota	33.1	+9.3	Cooperstown	72	27	Willow City	−14	3	.59	−.18	Howard	1.69	Hettinger	.11
Ohio	46.1	+7.3	Wilmington	87	22	Jefferson	3	4	5.28	+1.86	London (near)	7.57	Sandusky	3.11
Oklahoma	58.1	+7.3	Pauls Valley	90	25	Hooker	20	19	4.25	+2.04	Miami	7.51	Boise City	.53
Oregon	38.8	−2.2	Triangle Lake	73	11	Chemult	−14	30	5.38	+2.59	Brookings	26.51	Umatilla	.55
Pennsylvania	42.7	+5.0	Sharon	87	22	Muncy Valley	−5	1	3.19	−.31	2 stations	5.89	Gouldsboro	1.36
South Carolina	60.3	+5.6	Trenton	90	[1] 22	Long Creek (near)	16	1	2.24	−1.66	Clemson College	7.06	Georgetown	.18
South Dakota	37.9	+6.7	Menno	84	27	La Delle	−16	6	1.23	+.11	Academy	2.85	Reva (near)	.10
Tennessee	56.8	+7.3	Milan	87	21	Gatlinburg	11	1	5.61	+.24	Waynesboro	8.73	New River	3.53
Texas	64.2	+5.7	Mission	100	30	Hereford	20	30	2.15	+.12	Denton	8.58	2 stations	.00
Utah	37.7	−.6	St. George	74	16	Silver Lake	−12	30	2.89	+1.46	Silver Lake	8.38	Manila	.27
Virginia	50.9	+5.1	Culpeper	89	22	Mountain Lake	10	1	3.03	−.68	Mendota	4.95	Staunton	1.50
Washington	40.9	−.5	Leavensworth	73	26	Bumping Lake	1	20	4.53	+1.04	Wynoochee Oxbow	19.95	Kennewick (near)	.67
West Virginia	48.3	+5.8	Institute	92	22	Rainelle	3	1	4.03	+.10	Pickens	7.75	Wardensville	1.65
Wisconsin	36.2	+6.8	3 stations	79	[1] 21	Long Lake	−22	6	2.59	+.83	Lancaster	5.87	Danbury	1.25
Wyoming	32.5	+2.7	Lowell	75	22	South Pass City	−25	22	1.31	+.14	Bechler River	10.17	Worland	.13
Alaska (February)	4.6	−2.3	2 stations	64	[1] 27	Fort Yukon	−64	7	2.03	+.13	Little Port Walter	30.28	Barrow	.06
Hawaii	70.7	+1.8	Honokaa	89	1	Kanalohuluhulu	44	[1] 4	11.80	+2.42	Piihonua	56.00	Lahaina	.15
Puerto Rico	72.3	−1.3	4 stations	91	[1] 2	Garzas	50	[1] 11	4.19	+.57	LaMina (El Yunque)	12.92	Mona Island	.00

[1] Other dates also.

TABLE 2.—*Climatological data for Weather Bureau stations, March 1938*

[Compiled by Annie E. Small, by official authority U. S. Weather Bureau]

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Mile								0-10	In.	In.
New England							36.4	+3.6										75	2.37	-1.1										5.8		
Eastport	76	67	85	29.89	29.98	+0.05	29.1	+0.2	52	22	36	1	4	22	23	27	23	77	1.55	-2.3	15	11.9	nw.	36	e.	17	8	8	15	6.2	9.3	T
Greenville, Maine	1,069	4	41	28.86	29.98	-----	23.6	-----	54	23	35	-27	4	12	54	20	-----	---	2.48	-----	15	-----	se.	-----	-----	-----	-----	-----	-----	-----	29.9	3.0
Portland, Maine	103	82	117	29.86	29.99	+.03	33.8	+2.0	68	24	41	0	4	27	31	29	24	69	3.17	-.7	11	8.4	n.	15	n.	3	16	5	10	4.6	2.9	.0
Concord	289	54	72	29.67	29.99	-.01	35.6	+4.8	80	23	46	-2	4	25	49	-----	-----	---	2.07	-1.0	11	6.2	nw.	20	nw.	21	16	6	9	4.6	4.1	.0
Burlington	403	11	48	29.51	29.96	-.04	31.3	+2.2	73	23	41	-24	4	22	41	27	23	76	2.09	.0	15	10.5	s.	34	s.	30	11	5	15	6.2	10.7	.0
Northfield	876	12	60	29.00	29.98	-.02	30.2	+3.8	71	23	41	-20	4	20	41	26	22	77	1.72	-.8	13	8.5	s.	30	s.	26	10	6	15	6.5	7.3	T
Boston [1]	29	33	62	29.94	29.97	.00	39.1	+3.5	78	23	47	7	1	31	38	34	29	71	2.42	-1.2	10	12.6	w.	34	ne.	17	7	8	16	6.7	.3	.0
Nantucket	12	14	90	29.96	29.97	-.01	39.4	+3.9	63	21	46	11	1	33	29	37	34	84	3.53	-.2	11	16.7	sw.	38	ne.	3	12	4	15	6.2	.2	.0
Block Island	26	11	46	29.96	29.98	.00	39.2	+3.8	62	22	46	9	1	33	32	36	32	77	2.61	-1.2	12	17.8	sw.	42	nw.	1	13	6	12	5.2	T	.0
Providence	159	215	251	29.81	29.99	+.01	40.2	+4.5	77	23	49	7	1	31	38	35	30	72	2.39	-1.1	12	12.3	nw.	37	nw.	27	12	5	14	5.7	.8	.0
Hartford	159	66	100	29.83	30.01	+.02	40.8	+5.8	75	22	50	6	4	32	39	-----	-----	---	1.93	-2.0	12	9.7	s.	29	nw.	26	8	10	13	5.8	1.6	.0
New Haven	106	74	153	29.89	30.01	+.02	41.4	+5.6	72	21	50	8	4	33	35	36	30	68	2.57	-1.5	12	9.9	n.	29	sw.	2	8	10	13	6.1	1.5	.0
Middle Atlantic States							46.8	+6.1										68	2.44	-1.0										6.3		
Albany	97	97	112	29.89	30.00	-.01	39.4	+6.7	80	23	49	-3	4	29	43	33	26	64	1.63	-1.0	14	8.3	s.	25	s.	23	6	10	15	6.8	2.4	.0
Binghamton	871	57	79	29.04	29.99	-.03	40.8	+8.2	82	22	51	1	4	30	46	35	32	78	1.92	-.7	14	7.5	nw.	23	nw.	26	2	9	20	8.0	2.3	.0
New York	314	415	454	29.66	30.00	.00	44.2	+6.5	74	21	53	8	4	35	38	38	31	64	2.34	-1.3	12	15.7	nw.	43	nw.	27	6	13	12	6.1	1.1	.0
Harrisburg	374	94	104	29.60	30.01	-.02	44.6	+5.7	80	22	53	13	4	36	31	39	32	67	2.83	-.2	12	8.3	w.	27	w.	27	5	10	16	6.8	2.3	.0
Philadelphia	114	174	367	29.90	30.03	+.01	45.8	+5.0	79	22	55	13	4	36	35	40	32	64	1.83	-1.6	13	13.6	sw.	34	s.	23	8	9	14	6.0	1.9	.0
Reading	323	283	306	29.66	30.01	-----	45.6	+5.6	83	22	55	10	4	36	35	39	32	65	2.45	-1.1	14	12.1	nw.	37	nw.	27	8	9	14	6.1	2.1	.0
Scranton	805	72	104	29.12	30.00	-.02	41.8	+6.1	82	22	51	5	4	32	41	35	28	63	1.50	-1.7	10	7.6	sw.	28	nw.	26	5	10	16	7.1	2.0	.0
Atlantic City	52	37	172	29.96	30.02	.00	44.0	+5.4	72	21	52	17	4	36	34	40	35	75	1.97	-1.6	15	17.7	s.	41	ne.	15	8	9	14	6.2	1.6	.0
Sandy Hook	22	10	57	29.98	30.00	-----	42.8	+3.5	71	23	50	14	4	36	30	38	34	74	1.89	-2.2	13	14.7	sw.	36	nw.	27	9	8	14	5.8	.7	.0
Trenton	190	89	107	29.80	30.01	-----	44.0	+4.9	79	22	54	9	4	34	37	38	31	65	1.59	-1.8	10	10.1	s.	28	w.	1	6	10	15	6.5	1.6	.0
Baltimore	123	100	215	29.89	30.02	-.01	49.2	+6.9	79	21	59	16	4	39	33	41	34	65	2.44	-1.3	15	10.8	sw.	36	sw.	1	9	7	15	6.4	4.8	.0
Washington	112	62	85	29.90	30.02	-.02	49.8	+7.2	85	22	60	20	4	39	35	42	35	65	2.23	-1.5	15	7.9	nw.	30	nw.	6	9	8	14	6.3	2.5	.0
Cape Henry	18	8	54	30.02	30.04	-----	52.8	+6.2	85	31	62	28	1	44	29	47	43	74	3.71	-.2	8	12.4	sw.	40	n.	10	9	13	9	5.3	.0	.0
Lynchburg	686	144	184	29.30	30.04	-.01	53.6	+6.3	86	22	65	26	1	42	39	45	38	64	3.16	-.4	9	8.5	sw.	31	sw.	23	10	7	14	5.9	T	.0
Norfolk	91	80	125	29.95	30.05	+.02	54.6	+6.4	85	31	65	26	1	44	32	47	42	71	3.73	.0	9	10.9	sw.	29	e.	10	7	9	15	6.3	.0	.0
Richmond	144	11	52	29.89	30.04	.00	53.2	+6.0	85	31	65	24	1	41	34	45	39	69	3.57	-.1	12	9.6	sw.	31	w.	31	10	11	10	5.5	.0	.0
Wytheville	2,304	49	55	27.62	30.04	-.01	49.4	+7.1	76	22	60	20	1	39	41	42	37	69	2.67	-.8	14	7.6	w.	27	sw.	2	7	11	13	6.5	.0	.0
South Atlantic States							60.2	+6.4										73	2.18	-1.6										5.4		
Asheville	2,253	89	104	27.70	30.07	+.01	52.4	+7.5	80	22	64	20	1	41	36	45	40	73	4.20	+.2	15	9.5	se.	27	s.	13	9	8	14	5.9	.0	.0
Charlotte	779	63	86	29.22	30.06	+.01	57.4	+7.0	83	22	68	27	1	47	30	49	43	66	2.84	-1.3	11	8.4	sw.	24	sw.	3	6	10	15	6.6	.0	.0
Greensboro [1]	886	6	56	29.10	30.07	-----	53.6	-----	83	23	66	25	1	41	39	46	41	71	2.28	-----	9	9.2	sw.	26	sw.	31	8	7	16	6.4	.0	.0
Hatteras	11	5	50	30.05	30.06	+.02	56.2	+4.2	75	22	63	33	1	50	22	52	50	84	3.30	-1.0	9	14.0	sw.	42	w.	10	12	8	11	4.9	.0	.0
Raleigh	376	103	140	29.64	30.04	-.01	57.2	+7.0	84	31	69	28	1	46	36	50	44	69	1.39	-2.5	8	9.8	sw.	27	n.	26	11	12	8	4.9	.0	.0
Wilmington	72	73	107	30.00	30.08	+.03	59.8	+6.5	79	31	70	30	1	50	29	53	50	79	1.98	-1.2	7	10.9	sw.	31	sw.	10	12	11	8	4.8	.0	.0
Charleston	48	11	92	30.04	30.09	+.03	63.2	+5.8	83	26	71	35	1	56	25	57	54	79	.33	-2.7	2	10.7	sw.	28	ne.	28	8	11	12	5.8	.0	.0
Columbia, S. C.	341	70	91	29.69	30.07	+.01	61.6	+6.4	85	22	72	29	1	51	32	52	45	63	1.09	-2.3	8	9.4	s.	27	nw.	10	11	14	6	4.9	.0	.0
Greenville, S. C.	1,039	139	-----	-----	-----	-----	56.4	+6.5	82	22	66	30	1	47	30	-----	-----	68	4.14	-1.0	15	-----	sw.	-----	-----	-----	5	13	13	-----	.0	.0
Augusta	182	62	77	29.86	30.05	-.01	62.6	+6.6	86	22	74	32	2	51	39	54	47	66	1.96	-2.2	9	6.5	s.	23	w.	3	8	13	10	5.5	.0	.0
Savannah	65	73	152	30.01	30.08	+.02	65.7	+6.7	87	20	76	37	1	56	31	57	54	77	1.25	-1.8	5	11.6	s.	44	s.	16	8	14	9	5.2	.0	.0
Jacksonville	43	86	110	30.05	30.10	+.04	69.2	+6.6	87	27	79	43	1	59	28	60	57	77	1.55	-1.4	6	7.8	s.	23	w.	10	11	17	3	4.1	.0	.0
Florida Peninsula							74.0	+4.1										77	1.05	-0.9										3.0		
Key West	21	10	64	30.04	30.06	+.01	75.9	+3.3	86	17	81	60	13	70	19	69	66	79	1.50	+.1	2	9.8	e.	18	se.	29	20	10	1	2.6	.0	.0
Miami	25	124	168	30.06	30.09	+.01	74.3	+4.1	83	11	79	55	1	69	22	67	64	76	.34	-1.8	6	9.6	se.	24	nw.	17	22	7	2	2.9	.0	.0
Tampa	35	88	197	30.04	30.08	+.01	71.8	+5.0	87	28	81	52	1	62	25	63	60	77	1.32	-1.1	2	10.3	s.	30	w.	17	15	13	3	3.5	.0	.0
Titusville	43	5	36	-----	-----	-----	-----	-----	---	---	---	---	---	---	---	-----	-----	---	-----	-----	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
East Gulf States							64.7	+6.8										76	4.96	-0.2										5.9		
Atlanta [1]	976	5	53	29.02	30.05	-.01	58.4	+6.4	84	30	70	27	1	47	37	51	46	73	5.98	+.7	13	9.3	s.	34	se.	16	8	6	17	6.3	.0	.0
Macon	370	79	87	29.67	30.06	.00	62.4	+5.7	86	31	74	30	1	50	41	55	51	72	4.02	-1.0	8	7.5	s.	24	nw.	19	7	13	11	5.6	.0	.0
Thomasville	273	49	58	29.79	30.08	+.02	66.6	+6.4	86	26	77	38	1	56	36	59	55	---	2.22	-1.9	4	-----	s.	-----	-----	-----	-----	-----	-----	-----	.0	.0
Apalachicola	35	11	-----	30.04	30.08	-----	66.7	+5.1	80	26	74	43	2	60	25	62	59	84	1.81	-2.4	1	8.5	s.	27	e.	28	12	8	11	5.3	.0	.0
Pensacola	56	149	185	30.00	30.06	.00	66.2	+5.9	77	30	71	41	7	61	25	62	60	84	1.62	-3.2	6	12.7	se.	40	s.	15	9	15	7	5.3	.0	.0
Anniston	741	9	-----	-----	-----	-----	60.6	+8.1	82	30	72	25	1	50	38	-----	-----	---	9.94	+4.3	9	-----	se.	-----	-----	-----	10	9	12	-----	.0	.0
Birmingham	700	11	48	29.28	30.02	-.04	61.7	+6.3	82	26	72	29	1	52	32	54	49	71	9.05	+3.4	13	9.1	s.	26	se.	15	9	8	14	6.1	.0	.0
Mobile	57	86	161	29.98	30.04	-.02	67.2	+7.5	81	26	75	41	7	60	27	62	59	82	2.15	-3.8	9	10.4	s.	26	s.	16	7	11	13	6.2	.0	.0
Montgomery	218	92	105	29.81	30.06	.00	65.2	+7.4	84	29	76	35	7	55	34	57	52	70	5.97	.0	8	8.0	s.	29	n.	19	9	9	13	6.0	.0	.0
Corinth	469	6	-----	-----	-----	-----	-----	-----	---	---	---	---	---	---	---	-----	-----	---	-----	-----	---	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Meridian	375	67	92	29.61	30.01	-.04	65.1	+8.0	85	21	75	34	1	55	35	57	53	72	9.69	+4.5	9	7.8	s.	23	sw.	13	11	6	14	5.7	.0	.0
Vicksburg	247	82	102	29.72	29.98	-.06	66.2	+7.7	83	26	75	37	1	57	28	58	53	69	6.15	+.6	11	9.9	s.	25	sw.	5	8	8	15	6.4	.0	.0
New Orleans	53	76	84	29.97	30.02	-.02	70.4	+7.6	85	26	78	45	1	63	25	64	60	78	.91	-3.8	6	8.1	se.	28	sw.	23	7	10	14	6.3	.0	.0
West Gulf States							65.9	+6.7										72	3.41	+0.5										5.6		
Shreveport	249	92	227	29.68	29.95	-.07	66.3	+8.0	86	4	76	39	1	57	32	58	52	67	4.95	+.8	9	12.7	s.	43	w.	22	9	10	12	5.5	.0	.0
Bentonville	1,303	12	38	28.57	29.92	-.09	56.2	+8.9	81	14	67	24	6	46	34	-----	-----	---	5.01	+1.0	13	9.5	s.	30	sw.	30	8	11	12	-----	.0	.0
Fort Smith	463	57	82	29.45	29.93	-.08	60.2	+7.6	84	4	71	31	6	49	39	51	44	62	3.38	+.4	11	7.4	e.	29	sw.	13	11	10	10	5.1	.0	.0
Little Rock	357	94	102	29.57	29.94	-.09	60.6	+7.6	84	4	70	33	1	51	34	53	47	66	7.18	+2.6	11	9.7	s.	31	w.	22	9	9	13	5.7	.0	.0
Austin	605	68	90	29.28	29.91	-----	66.6	+5.9	88	4	77	41	6	56	36	59	54	69	1.57	-.7	7	8.8	s.	30	se.	9	13	7	11	5.0	.0	.0
Brownsville	57	88	96	29.81	29.87	-----	74.2	+6.0	89	3	81	56	7	68	24	69	67	85	1.87	+.6	4	12.5	se.	36	se.	28	3	17	11	6.5	.0	.0
Corpus Christi	20	11	78	29.88	29.90	-.08	72.0	+7.0	88	15	77	52	6	67	23	67	66	86	.48	-1.1	5	13.0	s.	50	s.	9	3	10	18	7.4	.0	.0
Dallas	512	220	227	29.36	29.90	-----	63.8	-----	86	4	74	34	6	54	29	55	48	63	4.40	+1.5	6	13.9	s.	54	w.	28	12	12	7	4.8	.0	.0
Fort Worth	679	92	110	29.20	29.91	-.07	64.2	+6.5	87	25	75	34	6	53	32	-----	-----	---	3.89	+1.6	7	12.0	s.	36	s.	28	21	5	5	3.2	.0	.0
Galveston	54	106	114	29.90	29.96	-.05	67.8	+5.4	79	19	72	51	6	63	15	64	62	86	1.82	-.9	8	11.8	s.	30	s.	28	7	8	16	6.4	.0	.0
Houston	138	292	314	29.81	29.96	-----	68.6	+5.3	82	3	76	44	6	61	23	-----	-----	---	1.71	-1.8	10	13.2	s.	38	se.	18	7	8	16	6.6	.0	.0
Palestine	510	64	72	29.41	29.94	-.06	65.8	+6.7	87	4	75	38	6	56	33	58	53	69	5.67	+2.2	10	9.2	s.	25	s.	28	13	7	11	5.1	.0	.0
Port Arthur	34	98	106	29.94	29.98	-----	68.4	-----	83	16	75	45	6	61	25	-----	-----	---	1.95	-1.3	9	14.4	s.	38	s.	28	5	13	13	6.5	.0	.0
San Antonio	693	242	301	29.19	29.90	-.08	68.3	+5.5	88	25	78	43	6	58	31	60	55	68	3.82	+2.0	7	11.8	e.	30	se.	25	10	7	14	5.5	.0	.0

[1] Observations taken at airport.

TABLE 2.—*Climatological data for Weather Bureau stations, March 1938*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Mile								0-10	In.	In.
Ohio Valley and Tennessee							51.6	+7.4										71	5.73	+1.5										6.7		
Chattanooga	762	71	214	29.22	30.03	−0.03	58.8	+7.6	83	30	68	29	1	49	31	51	45	66	6.08	+0.3	15	8.4	s.	29	nw.	5	6	6	19	6.8	0.0	0.0
Knoxville	995	66	84	28.96	30.02	−.04	57.0	+8.3	82	30	67	24	1	47	34	49	44	68	5.78	+.7	16	6.8	sw.	21	nw.	5	9	9	13	6.1	.0	.0
Memphis	399	78	86	29.54	29.96	−.08	60.6	+8.3	82	25	69	31	1	52	34	54	48	67	6.90	+1.6	10	9.7	sw.	30	sw.	29	7	12	12	6.1	.0	.0
Nashville	546	168	188	29.43	30.02	−.03	57.2	+8.0	80	15	67	26	1	47	37	50	45	70	4.78	−.3	14	11.7	s.	38	se.	29	7	8	16	6.5	.0	.0
Lexington	989	6					50.6	+6.9	81	23	62	20	1	39	35				5.56	+1.2	18										.0	.0
Louisville	525	188	234	29.41	30.00	−.05	52.4	+7.0	81	22	62	26	1	42	37	47	42	71	6.76	+2.4	16	12.4	s.	35	sw.	15	6	11	14	6.4	T	.0
Evansville	431	76	116	29.50	29.97	−.07	53.4	+7.5	78	21	63	27	1	44	35	47	42	70	4.69	+.5	13	11.1	s.	40	sw.	29	8	5	18	6.7	T	.0
Indianapolis	822	194	230	29.07	29.97	−.07	47.4	+7.4	79	22	57	25	4	38	35	42	36	70	7.93	+4.0	16	12.4	s.	31	s.	30	5	10	16	6.7	T	.0
Terre Haute	575	65	149	29.31	29.94		49.8		79	22	59	27	1	40	32	44	40	74	9.30	+5.5	18	11.4	s.	30	e.	15	7	9	15	6.6	T	.0
Cincinnati	627	11	51	29.30	29.99	−.06	49.1	+8.2	82	22	59	24	4	39	31	43	38	73	6.54	+2.6	20	9.7	sw.	32	se.	31	6	9	16	6.8	T	.0
Columbus	822	90	210	29.10	29.99	−.05	47.0	+7.9	82	22	57	17	4	37	32	42	37	73	4.32	+.8	16	11.5	s.	37	sw.	5	7	9	15	6.5	2.1	.0
Dayton	899	60	163	29.00	29.97		47.5	+7.0	82	22	58	19	4	38	31				6.28	+2.6	18	10.9	sw.	32	s.	19	8	8	15	6.5	.2	.0
Elkins	1,947	65	83	27.96	30.02	−.03	47.2	+7.2	79	22	58	15	1	37	47	41	36	73	4.39	+.6	20	7.2	w.	30	w.	23	3	6	22	7.9	.8	.0
Parkersburg	637	77	84	29.30	30.00	−.05	49.4	+6.6	83	22	60	22	4	39	36	44	39	73	3.42	−.1	19	7.1	se.	21	nw.	16	6	10	15	6.6	T	.0
Pittsburgh [1]	1,273	39	54	28.61	29.98	−.06	45.4	+5.8	82	22	55	16	1	36	33	40	34	72	3.21	+.2	17	12.2	sw.	34	nw.	27	4	11	16	7.2	.8	.0
Lower Lake Region							40.4	+7.6										73	2.94	+0.3										6.8		
Buffalo	768	243	280	29.10	29.95	−.07	37.8	+6.7	71	22	47	−1	3	29	35	34	30	76	1.84	−.7	14	17.6	sw.	52	sw.	2	5	7	19	7.1	3.0	.0
Canton	448	10	61	29.46	29.95		30.6	+2.9	74	22	40	−30	4	21	40	28	24	80	2.71	+.2	13	9.1	w.	29	w.	24	6	9	16	6.7	11.5	.0
Ithaca	836	77	100	29.05	29.98		40.2	+8.4	82	22	50	−3	4	30	36	34	29	69	1.12	−1.2	14	10.8	nw.	34	s.	23	3	10	18	7.4	1.1	.0
Oswego	335	71	85	29.58	29.96	−.05	37.5	+6.3	82	22	46	−6	4	29	39	33	28	73	2.29	−.3	19	11.2	se.	27	n.	3	5	5	21	7.7	4.1	.0
Rochester	523	86	102	29.38	29.97	−.05	40.4	+8.6	83	22	50	1	4	31	30	35	29	68	1.33	−1.4	14	10.0	w.	32	sw.	2	4	9	18	7.3	4.8	.0
Syracuse	596	65	79	29.33	29.98	−.04	40.2	+8.6	82	22	50	−4	3	31	40				2.02	−1.0	17	7.9	w.	29	sw.	23	3	7	21	7.8	9.1	.0
Erie	714	130	166	29.18	29.96	−.06	40.8	+7.3	82	22	50	1	4	32	36	36	31	72	2.96	+.3	17	15.5	w.	38	w.	27	6	10	15	6.5	1.1	.0
Cleveland	762	267	318	29.12	29.96	−.07	43.6	+9.0	83	22	53	8	4	34	36	39	34	72	3.52	+.8	15	17.1	s.	41	w.	27	7	12	12	6.3	.6	.0
Sandusky	629	5	67	29.26	29.95	−.08	44.6	+9.5	84	22	54	13	4	35	32				3.11	+.4	17	11.4	sw.	29	nw.	23	6	11	14	6.6	.7	.0
Toledo	628	79	87	29.27	29.96	−.07	43.7	+8.4	82	22	53	14	3	34	29	38	34	73	5.22	+2.7	15	11.5	w.	30	w.	7	10	12	9	5.5	.5	.0
Fort Wayne	857	69	84	29.02	29.96		44.0	+7.2	81	22	53	16	4	35	31	39	35	75	4.73	+1.5	14	11.2	w.	28	w.	31	9	8	14	6.0	.4	.0
Detroit [1]	626	5	78	29.25	29.94	−.09	41.6	+8.2	81	22	51	9	3	32	32	37	32	74	4.40	+2.0	16	12.5	sw.	37	sw.	31	6	12	13	6.2	2.4	.0
Upper Lake Region							36.2	+7.9										77	2.99	+0.8										5.7		
Alpena	609	13	89	29.23	29.91	−.12	32.6	+7.1	79	22	40	−1	3	25	40	29	25	79	2.37	+.4	16	11.5	nw.	30	sw.	31	8	12	11	5.7	5.1	.0
Escanaba	612	41	49	29.23	29.92	−.12	30.0	+5.8	54	28	39	−8	3	22	32	26	22	77	2.57	+.7	13	10.8	s.	32	n.	2	11	7	13	5.5	5.5	.0
Grand Rapids	707	70	244	29.15	29.93	−.10	42.1	+8.7	82	22	51	14	3	34	31	37	33	76	3.35	+.9	13	13.8	sw.	43	sw.	31	8	10	13	6.3	2.9	.0
Lansing	878	5	90	28.97	29.93		40.6	+8.4	81	22	50	12	4	31	33	36	33	81	3.36	+1.0	12	10.5	sw.	27	sw.	31	7	12	12	5.6	3.3	.0
Ludington	637	5	54	29.20	29.91		38.0	+7.9	72	21	46	6	3	30	33	34	29		3.41	+1.1	11		s.				14	8	9		3.7	.0
Marquette	734	44	69	29.07	29.89	−.15	33.0	+8.2	67	28	42	−1	3	24	31	29	25	78	1.95	−.3	12	8.6	nw.	34	sw.	31	8	13	10	5.6	7.9	T
Sault Sainte Marie	614	11	52	29.22	29.94	−.09	27.2	+5.6	58	30	36	−16	3	18	39	24	21	81	3.83	+2.0	18	8.1	se.	31	sw.	31	7	10	14	6.1	8.1	T
Chicago	673	7	131	29.19	29.93	−.10	45.0	+9.7	79	22	53	19	6	37	28	39	35	74	3.51	+.9	11	12.2	sw.	28	w.	31	8	10	13	5.9	2.8	.0
Green Bay	617	109	141	29.21	29.90	−.14	36.1	+7.5	69	30	45	3	3	27	29	32	28	76	2.32	+.3	11	12.4	sw.	35	ne.	2	12	5	14	5.9	4.4	.0
Milwaukee	681	97	221	29.16	29.90	−.13	41.3	+9.2	77	22	50	16	6	33	35	36	32	76	3.29	+.9	12	14.4	w.	39	w.	31	11	6	14	5.6	3.8	.0
Duluth	1,133	5	47	28.61	29.86	−.20	32.8	+9.1	64	28	42	1	6	24	31	27	22	74	2.91	+1.4	11	12.7	ne.	41	w.	31	13	10	8	5.0	6.1	.1
North Dakota							33.7	+11.3										72	0.67	−0.2										5.4		
Moorhead, Minn.	940	50	58	28.83	29.87	−.21	34.8	+12.1	65	27	45	0	3	24	34	30	24	71	.46	−.6	7	10.0	s.	29	nw.	31	7	15	9	5.9	.7	T
Bismarck	1,674	8	57	28.04	29.86	−.20	34.4	+10.2	65	27	44	4	6	25	31	30	24	71	.58	−.3	4	10.0	w.	32	nw.	31	8	13	10	5.4	4.5	.0
Devils Lake	1,478	11	44	28.25	29.86	−.19	33.0	+13.2	65	27	43	−1	3	23	32	28	23	73	.51	−.3	4	10.2	nw.	26	nw.	31	6	16	9	5.8	.1	.1
Grand Forks	833	12	67																													
Williston	1,878	42	50	27.83	29.84	−.20	32.7	+9.8	64	28	41	5	8	24	27	29	24	74	1.12	+.4	9	9.2	sw.	30	w.	30	11	14	6	4.7	8.5	3.0
Upper Mississippi Valley							45.8	+9.5										70	4.52	+2.2										5.9		
Minneapolis-St. Paul Minn.	919	105	208	28.86	29.86	−.19	38.0	+8.4	76	21	47	5	6	29	29	33	26	66	2.11	+.7	10	11.5	w.	35	nw.	31	12	9	10	5.3	6.2	T
La Crosse	714	11	48	29.11	29.90	−.14	40.4	+8.9	74	21	50	11	6	31	37	35	30	73	3.20	+1.6	12	6.5	s.	21	w.	22	11	8	12	5.5	4.8	.0
Madison	974	70	78	28.83	29.90	−.14	40.8	+10.2	74	21	50	12	6	32	32	36	31	74	2.09	.0	10	10.4	sw.	27	n.	3	10	7	14	5.9	2.9	.0
Charles City	1,015	10	51	28.79	29.90	−.15	40.2	+9.5	81	21	50	6	6	30	35	35	31	75	2.36	+.6	11	7.8	w.	24	sw.	31	8	8	15	6.2	3.6	.0
Davenport	606	66	161	29.24	29.91	−.12	45.8	+9.7	81	21	55	17	6	37	31	40	35	70	3.09	+.8	13	11.7	sw.	33	sw.	29	11	9	11	5.6	1.0	.0
Des Moines	861	5	99	28.96	29.88	−.16	45.8	+9.9	86	21	56	18	6	35	37	39	33	69	2.24	+.5	11	11.4	s.	36	nw.	22	9	10	12	6.1	T	.0
Dubuque	699	60	79	29.14	29.90	−.14	42.8	+8.8	81	21	52	8	6	33	36	37	32	69	3.73	+1.7	10	7.3	nw.	21	sw.	24	8	7	16	6.4	5.6	.0
Keokuk	614	64	78	29.24	29.90	−.13	48.4	+9.5	83	21	58	25	6	38	33	42	36	67	4.58	+2.2	14	9.3	sw.	26	sw.	29	10	6	15	6.2	T	.0
Cairo	358	87	93	29.57	29.95	−.09	56.4	+9.2	80	21	66	29	1	47	35	50	45	70	12.40	+8.6	14	11.3	s.	34	sw.	31	6	7	18	7.0	.0	.0
Peoria	609	11	45	29.25	29.92	−.11	47.4	+10.4	80	22	57	23	6	38	34	40	36	72	4.42	+1.7	15	8.9	s.	24	w.	31	14	7	10	5.0	T	.0
Springfield, Ill.	636	5	191	29.24	29.92	−.11	50.5	+10.3	80	21	60	26	6	41	34	44	39	71	4.45	+1.3	15	13.5	s.	32	s.	29	11	6	14	6.0	.0	.0
St. Louis	568	179	303	29.31	29.92	−.11	53.7	+9.6	82	21	64	27	6	44	37	46	41	70	9.52	+6.1	13	14.2	s.	41	s.	30	12	5	14	5.5	.0	.0
Missouri Valley							46.8	+8.8										66	2.12	+0.2										5.8		
Columbia, Mo.	784	6	66	29.06	29.90	−.13	52.8	+10.2	86	21	64	24	6	42	42				5.59	+2.6	11	9.8	s.	28	sw.	29	9	8	14	5.7	T	.0
Kansas City [1]	750	32	45	29.05	29.86	−.16	52.2	+9.5	81	21	63	25	6	41	40	45	39	65	3.06	+.5	11	12.3	sw.	35	sw.	29	7	12	12	6.0	.1	.0
St. Joseph	967	11	49	28.83	29.87		50.6		83	21	62	21	6	39	40	43	36	64	1.69	−.8	10	10.8	nw.	32	w.	30	9	12	10	5.4	T	.0
Springfield, Mo.	1,324	98	104	28.48	29.89	−.13	54.4	+9.2	81	21	64	26	6	44	34	47	40	65	2.76	−.6	13	12.2	s.	31	sw.	29	13	7	11	5.2	.0	.0
Topeka	987	65	87	28.80	29.86		51.6	+9.0	86	21	63	24	6	40	39	45	39	68	2.20	+.1	9	11.4	s.	29	sw.	21	5	16	10	6.1	.1	.0
Lincoln	1,189	11	81	28.59	29.87	−.15	46.0	+8.5	80	21	56	20	6	36	33	40	33	66	1.70	+.4	8	11.2	s.	44	w.	21	8	9	14	5.9	T	.0
Omaha [1]	982	31	44	28.81	29.87	−.17	45.0	+8.0	82	21	55	20	6	35	35	39	32	68	.51	−.9	8	12.6	s.	38	nw.	22	7	9	15	6.5	T	.0
Valentine	2,598	47	54	27.15	29.90	−.13	39.6	+7.3	73	20	50	8	6	29	41	34	26	64	1.27	+.2	11	10.4	w.	30	nw.	31	8	11	12	6.1	4.6	.0
Sioux City	1,138	64	106	28.65	29.88	−.17	42.6	+9.9	72	12	52	15	6	33	42	37	30	67	.97	−.2	7	10.4	nw.	31	nw.	31	10	8	13	6.1	.6	.0
Huron	1,307	59	74	28.48	29.90	−.16	36.8	+7.9	69	17	47	4	9	26	36	32	27	70	1.47	+.6	9	10.2	w.	35	w.	31	10	13	8	5.4	11.8	T
Northern Slope							35.5	+3.6										65	1.10	+0.2										6.8		
Missoula	3,263	80	91				37.0	+1.4	62	27	45	21	2	29	30				.76	−.2	10	6.8	se.	34	nw.	16	1	3	27	8.5	3.5	.0
Havre	2,507	11	67	27.19	29.87	−.13	32.2	+5.1	66	27	43	−6	7	22	36	27	20	65	1.40	+.9	6	11.0	sw.	34	w.	19	8	12	11	5.8	17.7	9.8
Helena	4,124	85	111	25.64	29.90	−.11	33.0	+.6	58	27	41	10	29	25	24	28	21	60	.94	+.2	10	8.6	sw.	34	s.	18	2	9	20	8.0	14.0	2.8
Kalispell	2,973	48	56	26.79	29.89	−.10	34.4	+1.5	56	27	42	14	1	26	31	31	27	75	.94	.0	10	5.7	w.	24	w.	18	1	5	25	8.1	10.0	T
Miles City	2,371	48	55	27.31	29.84	−.18	37.0	+8.4	69	16	47	12	29	27	34	32	26	68	1.00	+.1	12	7.9	w.	31	w.	29	7	7	17	6.6	4.8	1.9
Rapid City	3,259	50	58	26.45	29.85	−.16	39.3	+6.7	66	12	50	16	5	29	34	34	27	66	.83	−.1	7	9.0	n.	41	nw.	31	8	14	9	5.6	1.4	.0
Cheyenne [1]	6,144	5	39	23.77	29.84	−.12	36.6	+3.5	64	20	47	17	5	26	36	30	23	61	1.33	+.3	12	16.2	nw.	53	w.	29	7	14	10	5.8	12.9	.0
Lander	5,352	60	68	24.46	29.84	−.15	34.0	+1.6	64	16	46	5	6	22	37	28	17	53	1.66	+.5	5	6.8	sw.	36	sw.	28	7	14	10	5.6	15.7	.0
Sheridan	3,790	10	47	25.93	29.87		36.8		71	16	49	17	30	25	46	31	23	64	1.00	−.2	10	6.7	nw.	32	nw.	19	8	9	14	6.2	8.3	.0
Yellowstone Park	6,241	12	46	23.70	29.96	−.06	28.0	+.8	54	27	37	2	22	19	39	24	20	71	1.48	+.5	15	9.2	sw.	34	sw.	16	2	6	23	8.0	17.9	2.0
North Platte	2,821	11	51	26.92	29.86	−.14	43.3	+6.7	74	20	55	17	6	32	42	36	28	63	.79	−.1	8	9.2	n.	27	n.	17	7	10	14	6.1	.7	.0

[1] Observations taken at airport.

TABLE 2.—*Climatological data for Weather Bureau stations, March 1938*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature: Departure from normal	Temperature: Maximum	Temperature: Date	Temperature: Mean maximum	Temperature: Minimum	Temperature: Date	Temperature: Mean minimum	Temperature: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Mile								0-10	In.	In.
Middle Slope							49.2	+5.9										58	2.28	+1.0										5.2		
Denver	5,292	106	113	24.55	29.81	−0.14	42.6	+3.3	72	20	54	21	31	31	36	34	21	48	2.12	+1.1	16	9.1	s.	32	nw.	14	7	16	8	5.7	16.4	0.2
Pueblo	4,685	80	86	25.13	29.80	−.12	45.6	+4.0	75	24	58	18	6	33	43	36	23	46	1.32	+.7	10	8.8	nw.	41	w.	12	14	9	8	4.9	8.3	.0
Concordia	1,392	50	58	28.38	29.87	−.14	48.0	+7.0	85	21	59	24	5	37	37	42	36	70	1.17	−.1	7	10.4	n.	26	n.	25	13	7	11	5.3	.0	.0
Dodge City	2,509	10	86	27.22	29.83	−.14	49.6	+6.8	83	21	62	21	6	37	38	41	32	60	1.63	+.7	6	13.9	sw.	35	nw.	2	14	7	10	5.2	.1	.0
Wichita	1,358	85	93	28.41	29.85	−.14	51.9	+6.8	83	21	63	25	6	41	36	45	38	63	1.91	+.2	9	12.3	nw.	30	sw.	30	11	10	10	5.0	T	.0
Oklahoma City	1,214	10	47	28.58	29.86	−.12	57.4	+7.4	85	20	69	27	6	46	33	49	42	63	5.51	+3.5	8	11.5	s.	26	w.	9	9	12	10	5.1	.0	.0
Southern Slope							59.9	+5.3										48	1.58	+0.7										4.2		
Abilene	1,738	10	52	28.08	29.87	−.09	63.4	+6.9	92	25	76	34	6	50	38	51	40	52	4.36	+3.1	7	11.8	s.	29	s.	29	15	10	6	4.1	.0	.0
Amarillo	3,676	10	49	26.13	29.84	−.11	52.8	+5.9	82	24	66	29	6	40	40	41	28	46	1.24	+.5	6	11.4	sw.	36	w.	30	13	12	6	4.6	.1	.0
Del Rio	960	63	71	28.87	29.85	−.10	68.7	+5.2	92	4	80	47	6	58	33	58	50	58	.35	−.4	5	10.3	se.	31	nw.	28	13	10	8	4.8	.0	.0
Roswell	3,566	75	85	26.26	29.85	−.05	54.6	+3.3	86	25	70	30	28	40	47	42	25	38	.38	−.4	2	10.4	w.	37	w.	30	17	12	2	3.4	.0	.0
Southern Plateau							49.4	−0.7										47	1.37	+0.6										4.2		
El Paso	3,778	82	101	26.11	29.87	−.01	57.4	+1.6	84	25	71	33	6	44	38	43	25	32	.49	+.1	2	9.5	w.	27	w.	14	18	11	2	3.0	.0	.0
Albuquerque [1]	4,972	5	39	24.95	29.85	------	46.2	+.3	80	25	61	20	31	32	49	36	24	46	.22	−.2	4	12.0	w.	42	e.	26	10	16	5	4.6	T	.0
Santa Fe	7,013	38	53	23.12	29.87	−.02	40.8	+1.1	67	25	51	15	31	30	31	32	21	49	.81	.0	6	8.1	n.	26	nw.	14	9	9	13	5.8	6.2	.0
Flagstaff	6,907	10	59	23.23	29.84	−.07	35.4	−.5	60	16	47	9	31	24	36	31	----	68	4.39	+1.8	12	9.8	sw.	30	sw.	25	8	10	13	----	9.0	T
Phoenix	1,107	39	51	28.77	29.93	+.02	59.4	−1.3	84	24	72	36	31	47	40	47	34	46	.89	+.2	3	6.7	w.	24	s.	3	11	13	7	4.6	.0	.0
Yuma	141	9	54	29.82	29.96	+.02	62.2	−1.9	86	24	75	40	31	49	38	50	36	43	.61	+.3	3	7.1	w.	28	nw.	13	19	8	4	3.0	.0	.0
Independence	3,957	5	26	25.89	29.94	.00	44.5	−4.0	72	16	56	23	22	34	36	36	22	---	2.18	+1.7	6	------	s.	17	n.	25	12	7	12	----	.0	.0
Middle Plateau							39.2	−1.5										63	1.68	+0.8										6.9		
Reno	4,527	61	76	25.38	29.96	−.02	38.6	−2.5	56	27	48	19	21	30	29	33	27	65	2.06	+1.2	13	8.2	w.	34	sw.	16	4	12	15	6.5	1.5	.0
Tonopah	6,090	12	20	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Winnemucca	4,344	18	56	25.52	29.95	−.06	37.3	−2.7	60	23	48	9	21	26	37	33	27	69	1.34	+.4	13	9.6	sw.	32	nw.	28	4	6	21	7.5	6.5	.0
Modena	5,473	10	43	24.49	29.86	−.10	37.9	−.3	60	11	50	15	31	26	34	32	24	61	2.20	+1.2	11	11.2	sw.	49	s.	20	7	8	16	6.6	5.9	.0
Salt Lake City [1]	4,227	32	46	25.62	29.90	−.08	40.0	------	64	20	49	17	18	31	37	35	28	62	3.11	------	10	11.2	se.	50	nw.	20	3	13	15	6.9	13.9	.0
Grand Junction	4,602	60	68	25.26	29.84	−.10	43.0	−.6	67	20	53	23	22	33	36	36	28	60	1.10	+.3	11	7.3	nw.	30	s.	20	4	11	16	6.8	1.4	.0
Northern Plateau							41.3	0.0										66	2.06	+0.9										7.5		
Baker	3,471	36	54	26.34	29.94	−.09	37.6	.0	56	27	46	15	21	29	28	34	30	74	1.13	.0	11	7.2	s.	23	sw.	16	1	6	24	8.5	6.6	.0
Boise	2,739	79	87	27.08	29.97	−.06	41.8	−.9	59	11	50	24	21	34	25	37	30	65	3.16	+1.8	15	7.4	se.	24	nw.	28	1	12	18	7.6	6.6	.0
Pocatello	4,477	60	68	25.35	29.92	−.09	36.8	−.6	56	16	44	12	22	29	28	32	26	67	3.11	+1.8	20	10.5	sw.	31	sw.	20	4	7	20	7.4	15.1	T
Spokane	1,929	101	110	27.82	29.89	−.12	41.1	+1.4	58	11	49	27	29	34	25	36	31	69	2.09	+.9	13	7.8	s.	24	sw.	18	1	11	19	7.6	3.6	.0
Walla Walla	991	57	65	28.84	29.91	−.11	46.7	+.6	69	27	55	31	20	38	29	40	33	62	1.34	−.3	16	7.2	s.	28	se.	22	4	10	17	7.3	.5	.0
Yakima	1,076	58	67	28.73	29.89	------	43.6	−.5	66	11	53	24	21	34	29	36	30	60	1.52	+1.1	10	5.9	nw.	25	sw.	18	6	10	15	6.6	1.3	.0
North Pacific Coast Region							45.7	+0.1										75	5.80	+1.6										7.7		
North Head	211	11	56	29.68	29.91	−.10	45.4	+.2	61	10	50	33	20	40	21	43	40	84	5.51	.0	22	16.0	e.	66	s.	15	6	8	17	7.2	T	.0
Seattle	125	90	321	29.75	29.88	−.11	46.4	+1.5	61	10	53	34	29	40	22	42	37	70	3.42	+.4	17	10.8	se.	48	sw.	18	4	7	20	7.4	T	.0
Tatoosh Island	86	10	54	29.75	29.85	−.11	44.8	+1.9	55	1	48	35	28	41	13	42	38	79	8.30	+.4	19	16.7	e.	68	sw.	16	6	6	19	7.2	.1	.0
Medford [1]	1,329	29	58	28.56	29.99	------	44.5	−2.4	63	9	54	26	31	35	33	40	35	73	3.34	+1.6	18	------	sw.	------	------	------	2	8	21	8.0	4.1	.0
Portland, Oreg.	153	68	106	29.76	29.92	−.10	47.0	+.1	69	11	53	34	31	40	24	43	38	73	6.42	+2.5	20	6.6	se.	24	s.	1	2	6	23	7.8	.7	.0
Roseburg	510	45	76	29.41	29.97	−.07	46.2	−.9	67	11	54	31	31	38	30	42	37	73	7.78	+4.5	20	5.4	s.	23	s.	2	0	8	23	8.5	4.8	.0
Middle Pacific Coast Region							50.4	−2.3										71	8.97	+5.1										7.1		
Eureka	62	73	89	29.97	30.04	−.02	48.2	−.1	62	10	54	35	30	42	18	45	42	79	13.97	+8.7	23	9.3	se.	32	n.	25	4	4	23	8.0	.0	.0
Redding [1]	722	20	34	------	------	------	48.4	−5.6	74	27	55	33	22	41	26	43	36	66	12.27	+7.6	20	8.8	nw.	34	se.	12	3	6	22	7.9	1.2	.0
Sacramento	66	92	115	29.96	30.04	+.01	52.1	−2.2	72	27	60	34	30	44	28	47	41	68	3.92	+1.4	13	8.8	s.	29	nw.	25	9	8	14	5.9	.0	.0
San Francisco	155	112	132	29.87	30.04	−.02	52.8	−1.4	70	26	58	43	21	48	18	48	43	70	5.73	+2.6	18	9.4	w.	26	sw.	12	6	9	16	6.6	.0	.0
South Pacific Coast Region							55.8	−0.6										67	5.62	+3.6										5.5		
Fresno	327	97	105	29.69	30.06	+.05	52.4	−2.6	72	26	61	36	30	44	32	47	40	68	5.19	+3.6	14	7.0	nw.	26	w.	13	6	14	11	6.2	.0	.0
Los Angeles	338	159	191	29.65	30.02	.00	57.8	+.3	77	10	66	44	30	50	24	50	42	61	7.94	+5.2	9	7.3	sw.	23	nw.	17	11	14	6	4.5	.0	.0
San Diego	87	62	70	29.93	30.03	+.01	57.2	+.5	73	10	64	46	6	51	21	52	47	72	3.73	+2.0	10	8.1	w.	30	s.	2	8	12	11	5.8	.0	.0
West Indies																																
San Juan, P. R.	82	9	54	29.96	30.05	------	74.6	−.8	84	12	78	67	11	71	17	----	----	---	4.09	+.9	16	15.3	e.	27	e.	8	15	16	0	3.7	.0	.0
Panama Canal																																
Balboa Heights	118	6	92	------	[3]29.86	+.02	80.6	−.6	92	31	90	68	5	71	22	----	----	[2]72	.25	−.5	1	8.0	nw.	25	nw.	2	11	20	0	4.4	.0	.0
Cristobal	36	6	97	------	[3]29.89	+.01	80.8	−.7	86	14	85	72	6	77	12	74	72	[2]75	1.68	+.2	9	14.3	n.	28	n.	14	11	17	3	4.5	.0	.0
Alaska																																
Fairbanks	454	11	87	[3]29.16	[3]29.70	------	10.0	.0	53	1	26	−34	27	−5	50	10	4	67	.23	−.5	4	4.3	s.	15	sw.	23	12	6	13	5.1	3.0	16.1
Juneau	80	96	116	[3]29.58	[3]29.67	------	36.2	+2.5	59	1	42	23	28	30	25	33	27	70	5.67	.0	17	6.8	se.	27	e.	25	7	4	20	6.9	8.3	.0
Nome	22	5	32	[3]29.61	[3]29.63	------	11.1	+3.1	44	2	19	−31	23	3	35	12	8	76	.96	+.1	15	8.7	ne.	30	ne.	27	4	9	18	7.1	11.2	11.3
Hawaiian Islands																																
Honolulu	38	86	100	30.00	30.04	------	73.3	+1.9	81	29	77	66	11	69	12	67	64	73	3.77	+.6	20	10.5	e.	30	ne.	8	4	11	16	6.7	.0	.0

[1] Observations taken at airport. [2] Observations taken bihourly. [3] Pressure not reduced to a mean of 24 hours.

TABLE 3.—*Data furnished by the Canadian Meteorological Service, March 1938*

Station	Altitude above mean sea level, Jan. 1, 1919	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Mean maximum	Temperature of the air: Mean minimum	Temperature of the air: Highest	Temperature of the air: Lowest	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Total snowfall
	Feet	*In.*	*In.*	*In.*	*°F.*	*°F.*	*°F.*	*°F.*	*°F.*	*°F.*	*In.*	*In.*	*In.*
Cape Race, Newfoundland	99												
Sydney, Cape Breton Island	48	29.84	29.90	−0.01	23.9	−3.3	32.0	15.8	56	−10	2.94	−1.65	16.6
Halifax, Nova Scotia	88	29.69	29.96	+.04	28.8	−1.6	35.3	22.2	61	−2	3.51	−1.32	7.1
Yarmouth, Nova Scotia	65	29.85	29.97	+.03	31.2	−.8	38.1	24.3	48	1	4.43	+.32	27.6
Charlottetown, Prince Edward Island	38	29.89	29.97	+.06	21.9	−3.9	29.9	13.9	46	−12	2.79	−.87	13.6
Chatham, New Brunswick	28	29.84	29.95	+.03	22.0	−2.5	32.9	11.1	56	−21	.98	−2.37	4.8
Father Point, Quebec	20	29.91	29.93	+.01	22.6	−1.0	29.2	16.0	55	−14	.85	−2.07	3.3
Quebec, Quebec	296	29.64	29.92	−.04	24.0	+1.7	31.3	16.7	54	−13	3.34	+.14	20.2
Doucet, Quebec	1,236	28.54	29.94	−.02	15.1	+1.5	29.9	.3	62	−48	2.39	+.66	11.2
Montreal, Quebec	187												
Ottawa, Ontario	236	29.67	29.93	−.07	24.1	.0	33.1	15.1	57	−34	3.62	+.97	9.4
Kingston, Ontario	285	29.63	29.95	−.06	31.2	+4.0	38.3	24.0	61	−15	2.85	+.38	6.6
Toronto, Ontario	379	29.56	29.95	−.08	35.8	+6.0	44.1	27.4	73	−5	1.64	−.89	3.1
Cochrane, Ontario	930	28.32	29.89	−.17	20.6	+5.4	30.7	10.5	58	−36	1.57	+.27	5.6
White River, Ontario	1,244	28.50	29.90	−.14	21.8	+8.5	36.3	7.3	57	−47	1.47	−.03	5.7
London, Ontario	808	29.06	29.96	−.09	36.6	+6.8	45.9	27.3	75	2	3.70	+.78	5.2
Southampton, Ontario	656	29.20	29.93	−.06	32.8	+5.6	41.7	23.9	74	−11	2.62	−.06	3.2
Parry Sound, Ontario	688	29.22	29.93	−.09	29.4	+5.6	38.9	19.8	71	−19	3.88	+1.15	10.1
Port Arthur, Ontario	644	29.00	29.87	−.18	25.5	+5.2	36.4	14.6	56	−20	1.80	+.86	1.6
Winnipeg, Manitoba	760	29.00	29.85	−.19	28.2	+12.4	33.2	18.2	66	−12	.50	−.63	.5
Minnedosa, Manitoba	1,690	28.00	29.86	−.22	25.2	+10.2	34.6	15.7	62	−20	1.60	+.77	3.2
Le Pas, Manitoba	860	28.84	29.84	−.28	20.2	+9.2	30.1	10.3	46	−12	1.20	+.63	12.0
Qu'Appelle, Saskatchewan	2,115	27.52	29.86	−.22	27.6	+10.3	36.8	18.3	59	−6	2.45	+1.28	16.2
Moose Jaw, Saskatchewan	1,759	27.80	29.84	−.22	30.2	+10.4	39.0	21.5	64	−2	1.20	+.53	4.1
Swift Current, Saskatchewan	2,392	27.22	29.84	−.21	29.8	+8.2	37.5	22.2	63	6	1.21	+.46	11.9
Medicine Hat, Alberta	2,365	27.30	29.84	−.18	31.4	+3.5	40.5	22.3	62	0	2.55	+1.96	25.5
Calgary, Alberta	3,540	26.08	29.82	−.20	30.8	+5.7	39.7	21.8	56	6	.79	−.05	7.8
Banff, Alberta	4,521												
Prince Albert, Saskatchewan	1,450	28.24	29.84	−.23	27.2	+13.2	35.4	18.9	55	−8	.64	−.26	5.2
Battleford, Saskatchewan	1,592	28.05	29.83	−.22	26.4	+11.3	36.0	16.9	58	−5	.70	+.17	7.0
Edmonton, Alberta	2,150	27.47	29.79	−.18	29.8	+7.5	38.4	21.3	60	2	.43	−.31	4.2
Kamloops, British Columbia	1,262	28.53	29.89	−.04	41.7	+3.8	50.3	33.1	64	25	.15	−.21	.0
Victoria, British Columbia	230	29.61	29.87	−.16	44.6	+1.0	50.3	38.9	57	32	2.62	+.24	T
Barkerville, British Columbia	4,180												
Estevan Point, British Columbia	20	27.80	29.82	−.20	42.8	.0	48.8	36.7	57	30	11.62	+2.41	1.2
Prince Rupert, British Columbia	170	29.46	29.64	−.22	40.4	+1.4	46.9	33.9	66	27	4.68	−4.44	5.2
St. George's, Bermuda	158		30.11	+.03	63.1	+.3	68.3	57.9	74	50	2.78	−1.96	.0
LATE REPORTS FOR FEBRUARY 1938													
Cape Race, Newfoundland	99				19.9	−2.0	27.3	12.5	41	−6	4.09	+0.14	3.9
Father Point, Quebec	20	30.19	30.21	+0.25	12.8	+2.4	20.4	5.1	35	−10	1.62	−.34	16.2
Montreal, Quebec	187	30.00	30.23	+.20	17.2	+2.7	23.5	11.0	38	−5	3.36	+.19	18.8

TABLE 4.—*Severe local storms, March 1938*

[Compiled by Mary O. Souder from reports submitted by Weather Bureau officials]

[The table herewith contains such data as have been received concerning severe local storms that ocurred during the month. A revised list of tornadoes 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
Fayetteville, Ark	4	11:30 p. m.			$1,000	Heavy hail	Damage to windows, skylights, car tops, fruit trees, and gardens.
Sioux City, Iowa, and vicinity	4					Glaze	Streets and highways dangerous.
Sumner and Maury Counties, Tenn.	5	P. m.				Thundersqualls	Several barns unroofed or demolished.
Irving, Ill	5				13,400	Electrical	Damage to lumberyard.
Kleberg, Nueces, and San Patrico Counties, Tex.	9	12:30 a. m.	[1] 60		25,000	Straight-line winds.	4 persons injured; property damaged; path 100 miles long.
Salina, Kans., 2½ miles southeast.	10	6:30 p. m.	100	0	2,000	Tornado	All buildings demolished and 17 members of 1 family injured, none seriously. Path 880 yards long.
Northdale, Colo	12	Midnight	33			Wind	Porch damaged; trees uprooted.
Cairo, Ill	13				1,000	Hail	Property damaged.
Cambria, Ill	13				5,000	Wind	Property damaged.
Columbia, Mo	13					Thunderstorm and heavy hail.	Fields washed; streets and cellars flooded; sewers inadequate. Water 4 feet deep in 1 underpass.
Washington, Nowata, Rogers, Tulsa, Creek, Wagoner, and Okmulgee Counties, Okla., portions of.	14	5:30–6:30 p. m.			97,000	Hail	Property and fruit trees damaged; some loss to crops, not estimated separately.
Okmulgee, Kellyville, Sapulpa, and Sand Springs, Okla.[2]	14			1		Tornado	A 45-minute rain preceded the twister and was followed by a hailstorm. Barn overturned and 3 small sheds unroofed.
Asbury, Iantha, and Liberal, Mo.	15	12:30 a. m.	33	0	20,000	do	1 person injured; property and power lines damaged.
Verba, Miss., vicinity of	15	A. m.	1,320	0	3,500	do	Property damaged; path 25 miles long.
Butler, Wayne, Cape Girardeau, and Perry Counties, Mo.	15	2:30 p. m.	33–100	0	22,000	do	8 persons injured; property damaged.
Red Bud, Ill., 1 mile west	15	3:15 to 3:30 p. m.	167	0		do	Considerable damage to rural buildings, farm implements, and orchards. Loss to stock; path 3 miles long.

[1] Miles instead of yards.

TABLE 4.—*Severe local storms, March 1938*—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Senath, Nesbit, Caruthersville, Liberty, Tywhappity, Hemphill, Bakersville, Bragg City, Wardell, and Swift, Mo.	15	3:25 p. m.	200-440	10	$65,000	Tornado	This storm originated in northeastern Arkansas. Many persons injured.
Dell and Blytheville, Ark.	15	4:45 p. m.	200	0	100,000	do	29 persons injured; property damaged. Path 10 miles long.
Belleville to O'Fallon, Ill.	15	4:53 p. m.	167-333	10	1,000,000	do	65 persons injured; 60 local buildings, and a schoolhouse, closed for the day, demolished or badly damaged.
Arlington, Ky., vicinity of	15	5:08-5:30 p. m.	150	0	2,100	do	2 persons injured; path 6½ miles long.
Red Bud and Darmstadt, Ill.	15	6:15 p. m.	100	0		do	12 persons injured.
Alabama, north-central and west-central portions of the State.	15			2	100,000	Tornadoes and windstorms.	55 persons injured; property damaged.
Mount Carmel, Ill.	15				80,000	Hail	No details.
Vincennes, Ind.	15					Rain and hail	Excessive rain increased flood danger. Basements flooded. Hail damage to orchards severe. Amount of damage not estimated.
McPaul, Iowa	15		50		8,000	Tornado	School building wrecked; 14 pupils and the teacher escaped injury. Path 3 miles long.
Jones' Chapel, Miss.	15				2,000	Thundersquall	Property damaged.
Dent, Crawford, Washington, and Jefferson Counties, Mo.	15			1	150,000	Tornado	18 persons injured; property damaged. Path of storm varied considerably; greatest damage over a path of about 880 yards wide and about 10 miles long.
Hales Point to Dyersburg, Tenn., and vicinities.	15			0	25,000	do	Barns demolished and farm animals killed. Path of storm several hundred yards wide and 30 miles long.
Rustburg, Va.	17	12:30-1 p. m.			2,000	Thunderstorm and hail.	Most damage to small buildings; windows broken. Fisherman struck by lightning, fell overboard and drowned.
Pueblo and Baca Counties and vicinities, Colo.	21					Wind and dust	Practically every county east of the 105th meridian covered by the dust pall. A severe duststorm moved into the Pueblo district from a southwesterly direction. Business houses and homes filmed with powdery dust. Air travel discontinued, because of high wind and poor visibility. Highway traffic extremely dangerous throughout most of the day. In Baca County, the storm was violent at times with visibility reduced to 50 feet.
Witoka, Minn.	22	3 a. m.	[1] 10		10,000	Thundersquall and hail.	Several barns, windmills, and sheds wrecked; building unroofed, windows broken, wires and poles down. Path about 20 miles long.
La Crosse, Trempeleau, Clark, Wood, and Marathon Counties, Wis.	22	A. m.			204,000	2 windsqualls	First squall caused $34,000 damage in first 3 named counties; second squall $170,000 damage in 3 latter counties. No details.
Vaughn, Tex.	22	2 p. m.	[1] 5	0	10,000	Tornado	Property damaged; path 12 miles long.
Itasca, Tex.	22	3 p. m.	[1] 3			Heavy hail	Loss to crops and considerable damage to roofs and to car tops.
Iowa, northern portion	22				30,000	Tornadic winds	Some of the storms accompanied by hail and severe lightning. At Eagle-Grove a grain elevator was destroyed. At Clarion and Belmont small buildings were damaged and barns unroofed. Near Clear Lake, a barn was struck by lightning and 13 horses burned. At Sheffield, a tile plant was damaged. At Denison, a storm of tornadic characteristics with hail blew out plate-glass windows. At Rockwell City, a wall of a school building was demolished and a grandstand unroofed.
New Orleans, La.	23	5-5:30 a. m.				Thundersqualls	A number of trees blown down; small buildings damaged.
Vandalia, Ill.	25				1,000	Hail	No details.
Mankins, Tex.	26	12:10 a. m.	250	0	30,000	Tornado	Do..
Wichita Falls, Tex.	26	12:20 a. m.	330		5,000	Wind	1 person injured; no details. Path 300 yards long.
Greenwood, Tex.	26	12:30 p. m.		0		Tornado	Barns unroofed; poultry houses demolished, and fences blown down.
Georgetown, Ky.	26				50,000	Wind	Damage confined to 1 business block, mostly to roofs, windows, and merchandise.
McMillan, Okla., vicinity of	28	3:30 a. m.	33	0	1,000	Tornado	A small home destroyed and several others damaged. Path 440 yards long.
Weatherford, Tex.	28	9 a. m.		0		do	Small damage reported.
Pirtle, Okla.	28	1:30 p. m.	35	0	650	do	Path 1,320 yards long.
Honey Grove, Tex.	28	3:30 p. m.	[1] 1	0	10,000	do	Property damaged.
Wilburton, Okla.	28	4:15 p. m.	440	0	20,000	do	9 persons injured; property damaged. Path 1 mile long.
Texarkana and Mandeville, Ark.	28	7:30 p. m.	100-200	4	20,000	do	17 persons injured; property damaged. Path 10 miles long.
Nevada County, Ark.	28	10-10:15 p. m.	200	0	85,000	do	65 persons injured; about 50 houses destroyed; path 15 miles long.
Butterfield, Ark.	28	P. m.		0	1,000	do	3 persons injured; house destroyed.
Hope, Ark., 6 miles south	28	do		0		do	9 persons injured; property damaged. Path narrow and short.
Maugansville to Tangier Island, Md.	28					Gale	Chimney of a greenhouse blown down in Maugansville with $500 damage; several fishing vessels blown on a sandreef off Tangier Island; a power boat wrecked while attempting a rescue; poles down in various sections of Anne Arundel County.
Port Arthur, Tex., western portion.	29	12:50 a. m.	20	0	10,000	Tornado	Property damage confined to dilapidated houses, sheds, board fences, telephone and power lines. Path 1½ miles long.
Ferriday, La., vicinity of	29	3:30 a. m.		4	5,000	do	9 persons injured; property damaged.
Montana, north-central and northeastern sections.	29-31			3		Blizzard	This storm considered the worst in the memory of old residents. Heavy snow, falling on the 29th and 30th, piled into deep drifts that blocked highway traffic. Rail traffic interrupted and air traffic at standstill because of poor visibility. Loss from freezing and smothering to livestock in scattered areas. 3 persons lost in the storm froze to death.
Conway and Faulkner Counties, Ark.	30	2-3 a. m.	150-200	1	14,000	Tornado	14 persons injured; property damaged; path 65 miles long.
Conway, Faulkner, and Van Buren Counties, Ark.	30	2:30-3 a. m.	200	0	10,000	do	14 persons injured; path 35 miles long.
Cleburne County, Ark.	30	4 a. m.	200	2	14,000	do	3 persons injured; church and store destroyed; other property damaged.
Lone Elm, Kans.	30	9:45 a. m.	100	1	500	do	Several small buildings damaged; woman killed when a brooder house was blown upon her. Path 1 mile long.
Washington County, Okla.	30	10 a. m.	100-400	0	25,542	do	Valuable oil property completely destroyed at Ochelata where $20,000 damage occurred, the path being 100 yards wide and about a mile long. In Oglesby the path was 400 yards wide. Small crop loss.
Columbus, Kans.	30	10:50-11:15 a. m.	133	10	575,000	do	150 persons injured; 180 residences, 88 buildings, and 45 garages demolished or badly damaged.
Columbia, Mo., to Callaway and Andrain Counties, to about 20 miles southwest of Palmyra, Mo.	30	11:36 a. m.-2 p. m.	440	1	120,000	do	18 persons injured; property damaged.
Shelbina, Mo., vicinity of	30	1:30-2 p. m.		0	4,700	do	6 persons injured; property damaged, $3,200; loss to crops, $1,500.
Dixie to Williamsburg, Mo.	30	3 p. m.	300-440	0		do	8 persons injured; damage estimated at several thousand dollars.
Kellerville, Rushville, Astoria, South Pekin, and Eureka, Ill., and vicinities.	30	3-5:20 p. m.		13	1,000,000	do	75 persons injured; property and trees damaged.
St. Charles, Mo., vicinity of, to Alton, Ill.	30	5:53-6:15 p. m.	500	0	25,000	do	2 persons injured; property damaged.
Cleburne County, Ark.	30	6 p. m.	200-425	7	80,000	do	96 persons injured; 53 homes destroyed; cattle killed; path 40 miles long.
Independence County, Ark.	30	6 p. m.	425	1	12,000	do	5 persons injured; 12 houses damaged; path short.
Alton to Litchfield, Ill., and vicinities.	30	6:15-6:45 p. m.	167-440	0	315,000	do	11 persons injured; more than 100 residences and several buildings damaged. At Bunker Hill, 4 of the town's 5 churches demolished.

[1] Miles instead of yards.

TABLE 4.—*Severe local storms, March 1938*—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Butler County, Mo	30	7:50 p. m	100-440	4	$50,000	Tornado	20 persons injured; property damaged.
White County, Ark	30	8 p. m		0	5,000	do	12 persons injured; path narrow and about 5 miles long.
Gideon to New Madrid, Mo., and vicinities.	30	9-9:30 p. m		0	20,000	do	2 persons injured. Damage at Gideon about $20,000 and at New Madrid several thousand dollars.
Lamar, Stockton, and Humansville, Mo.	30	11:50 - 12:30 p. m.	100-133	0	5,000	do	Damage estimated for Lamar only.
Green County, Ark	30	P. m		0	15,000	do	3 persons injured, church and 8 farm buildings wrecked; path 14 miles long.
Independence County, Ark	30	do	300	0	15,000	do	17 persons injured; 2 churches, 6 homes, and a store destroyed; path 12 miles long.
Minturn, Ark	30	do		3		do	Property damaged; path short.
Randolph County, Ark	30	do		0		do	Several farm houses wrecked; path 16 miles long.
Glen Carbon to Edwardsville, Ill., and vicinities.	30		200-880	0	75,000	do	3 persons injured; rural buildings and orchards damaged; loss to livestock.
Edwardsville, Greenville, Hardin, and Payson, Ill.	30				60,100	Hail	Property damaged; loss to fruit crop.
Hoopeston, Monticello, Mounds, and Venice, Ill.	30			1	19,000	Wind	Property damaged; in Venice 1 person killed.
Bardwell, Freedom, Irma, Marion, and Salem, Ky.[1]	30					Tornadic winds	Houses and barns demolished; livestock killed; 6 persons injured.
Henderson and Daviess Counties, Ky.	30				106,000	Torrential rains	Small streams swollen; livestock drowned. Damage to roads and bridges, $106,000.
McCracken, Carlisle, Livingston, and Crittenden Counties, Ky.	31				25,000	Wind	Property damaged.
Warroad, Minn., and vicinity	31					do	Telephone and power lines damaged.
Grand Marais, Minn., and vicinity.	31					do	Considerable damage to the breakwater and to fishermen's property along the shore. About 30 cords of pulpwood, piled on the shore for shipment, washed into the lake by huge waves. Several streets flooded.

[1] From press reports.

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