eastern sections; otherwise the weather was mostly favorable for these crops.

The prevailing mild weather was favorable for the growth of grass in the Southern States, but there was insufficient moisture for ranges in the far Southwest. The mild weather was generally favorable for stock which, on the whole, continued in very satisfactory condition.

Fruit buds prematurely advanced in central and southern portions of the country. During the latter part of the month freezing temperatures extended as far south as the central portions of the east Gulf States, and some injury was done to early fruit in sections of Alabama and locally in Georgia, while peaches and plums were badly damaged in southwestern Arkansas and portions of Oklahoma by the freeze at the beginning of the third decade.

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.

Condensed climatological summary of temperature and precipitation by sections, February, 1921.

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	51.0	+ 3.4	Troy	81	15	Florence	16	18	5.21	+ 0.04	Maple Grove	9.67	Alaga	1.05
Arizona	45.6	+ 2.1	Mohawk	96	25†	Springville	−16	8	0.39	− 0.63	Oracle	1.82	6 stations	0.00
Arkansas	48.3	+ 6.3	Texarkana	85	24†	Dutton	− 3	20	3.59	− 0.18	Georgetown	8.90	Whitecliffs	1.00
California	49.4	+ 0.9	Indio	97	25†	Squirrel Inn	− 7	15	2.23	− 2.18	Crescent	13.44	5 stations	0.00
Colorado	29.8	+ 3.6	Rocky Ford	78	25	Gunnison	−28	9	0.68	− 0.47	Savage Basin	4.75	3 stations	0.00
Florida	62.1	+ 3.0	Homestead	89	6	De Funiak Springs	27	26	1.77	− 1.56	Hypoluxo	5.92	Long Key	0.36
Georgia	51.8	+ 3.9	Glennville	85	8	2 stations	20	3†	4.43	− 0.54	Toccoa	10.77	St. George	0.83
Hawaii (January)	68.5	+ 0.3	2 stations	88	5†	Waimea	46	5	24.43	+18.14	Honomu	82.87	Olowalu	2.84
Idaho	29.2	+ 0.9	Murphy	66	14	Felt	−33	7	1.75	0.00	Prichard	5.03	Sugar	0.35
Illinois	36.3	+ 8.7	Carbondale	77	14	Freeport	8	18	0.83	− 1.26	Shawneetown	4.42	Havana	0.15
Indiana	36.2	+ 7.0	Mount Vernon	74	15	Goshen	2	1	1.73	− 0.92	Huntingburg	5.57	Crawfordsville	0.23
Iowa	31.0	+10.5	Pella	76	15	Washta	− 5	7	0.77	− 0.38	Belmond	2.00	Olin	T.
Kansas	40.2	+ 9.0	Newton	83	14	Tribune	0	8	0.26	− 1.01	Elkhart	1.10	11 stations	T.
Kentucky	41.3	+ 5.7	2 stations	77	14	3 stations	11	25†	3.20	− 0.40	Brownsville	5.20	Cloverport	1.83
Louisiana	56.8	+ 4.3	Kelley	86	7	Calhoun	24	20	2.04	− 2.28	Dodson	4.51	Angola	0.16
Maryland-Delaware	37.8	+ 5.0	Western Port, Md.	84	16	Oakland, Md.	−15	21	2.92	− 0.35	Friendsville, Md.	4.11	Hancock, Md.	2.02
Michigan	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Minnesota	20.7	+10.5	Winona	67	15	Roseau	−38	19	0.52	− 0.15	Brainerd	2.53	2 stations	0.00
Mississippi	52.5	+ 4.2	2 stations	83	6†	4 stations	24	3†	4.25	− 0.66	Aberdeen	8.04	Pascagoula	1.41
Missouri	40.1	+ 9.1	Bolivar	86	16	Dean	5	20	0.94	− 1.33	Caruthersville	5.52	Tarkio	0.02
Montana	30.2	+ 8.9	Foster	77	24†	Hebgen Dam	−29	7	0.47	− 0.30	Heron	3.62	Townsend	0.00
Nebraska	33.9	+ 9.1	Auburn	83	14†	Gordon	−13	7	0.44	− 0.30	Brewster	1.50	Beaver City	0.00
Nevada	36.8	+ 2.8	Logandale	84	14†	Owyhee	−20	7	0.64	− 0.39	Lamoille	3.07	2 stations	0.00
New England	25.0	+ 3.5	Waterbury, Conn.	74	4	Van Buren, Me.	−30	1	2.62	− 0.55	Westboro, Mass.	4.80	Van Buren, Me.	1.01
New Jersey	34.0	+ 4.4	Vineland	71	16	Culvers Lake	−12	25	3.82	+ 0.25	Little Falls	5.82	Bridgeton	2.58
New Mexico	38.3	+ 1.1	3 stations	82	13†	Tres Piedras	−13	8†	0.47	− 0.30	Harveys Upper Ranch.	1.80	6 stations	T.
New York	27.0	+ 5.4	Dansville	66	16	Raquette Lake	−26	25	2.57	− 0.26	Mohonk Lake	5.16	Ogdensburg	0.60
North Carolina	44.8	+ 3.2	2 stations	79	16†	Highland	11	24	4.31	+ 0.22	Highlands	9.37	Scotland Neck	2.36
North Dakota	19.8	+11.9	Beach	64	12	Langdon	−33	19	0.39	− 0.10	Walhalla	1.30	2 stations	T.
Ohio	34.3	+ 6.4	2 stations	77	15†	Montpelier	2	1	2.05	− 0.58	Prospect	3.97	Wauseon	0.91
Oklahoma	45.1	+ 6.1	2 stations	88	13†	3 stations	2	8†	1.52	+ 0.13	Poteau	6.39	Blackwell	T.
Oregon	39.1	+ 1.9	Marshfield	72	23	Wallowa	−18	17	5.06	+ 1.31	Government Camp	15.58	Andrews	0.49
Pennsylvania	32.8	+ 5.5	Everett	76	16	Ebensburg	−15	21	2.59	− 0.26	Philadelphia (d)	4.79	Brooksville	1.41
Porto Rico	74.1	+ 0.7	4 stations	91	7†	Arbonito	48	12†	2.70	− 0.81	Vieques Island	6.60	Utuado	0.10
South Carolina	49.4	+ 2.4	Yemassee	85	8	Santuck	19	21	4.73	+ 0.37	Walhalla	9.68	Charleston	1.26
South Dakota	29.3	+12.4	Spearfish	71	14	Pollock	−18	7	0.14	− 0.41	Oelrichs	0.83	3 stations	0.00
Tennessee	45.2	+ 5.1	4 stations	79	14	Crossville	16	24	5.37	+ 1.21	Lynnville (near)	8.15	Union City	2.88
Texas	53.9	+ 3.6	Encinal	95	6	Dalhart	4	19†	1.51	− 0.29	Fort Clark	6.15	3 stations	0.00
Utah	32.6	+ 2.9	Springdale	81	25	Blacks Fork	−29	7	0.93	− 0.39	Silver Lake	4.81	4 stations	0.00
Virginia	40.8	+ 4.6	2 stations	76	16	Woodstock	1	21	2.91	− 0.20	Williamsburg	4.56	Broad Run	0.75
Washington	36.7	+ 2.3	Olympia	71	7	Snyders Ranch	−15	16	4.42	+ 0.75	Cedar Lake	17.00	Wenatchee	0.30
West Virginia	37.4	+ 5.4	Moorefield	79	16	Lost Creek	−10	21	2.61	− 0.45	Raleigh	4.90	Brandywine	1.10
Wisconsin	24.1	+ 8.6	Richland Center	67	15	2 stations	−18	3†	0.65	− 0.54	High Falls	1.70	Beloit	0.05
Wyoming	26.5	+ 5.1	Cody	75	12	do	−40	7†	0.39	− 0.48	Moran	1.77	Dubois	0.00

* For description of tables and charts, see this REVIEW, January, 1921, p. 41.
† Other dates also.

TABLE I.—*Climatological data for Weather Bureau Stations, February, 1921.*

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.										
	Barometer above sea level.	Thermometer above ground	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum	Date.	Mean maximum.	Minimum.	Date.	Mean minimum	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	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.		Miles.								0-00	In.	In.
New England.							28.3	+ 2.8										77	2.74	− 0.6										6.4		
Eastport	76	67	85	29.96	30.05	+0.05	23.6	+ 2.2	47	17	30	4	1	17	28	22	17	74	2.83	− 0.7	14	8,223	nw.	48	e.	28	5	13	10	6.0	16.2	T.
Greenville, Me	1,070	6	.....	28.84	30.06	.....	16.3	.....	42	17	27	−12	2	6	36	.....	.....	.....	2.22	.....	8	.....	.....	.....	.....	.....	12	6	10	.....	15.2	29.0
Portland, Me	103	82	117	29.95	30.08	+ .06	26.8	+ 3.0	48	17	34	7	25	19	28	24	18	69	4.24	+ 0.6	12	5,833	n.	34	w.	17	9	7	12	5.8	26.7	5.0
Concord	288	70	79	29.75	30.08	+ .04	25.8	+ 2.4	52	16	36	− 8	26	16	41	.....	.....	.....	2.48	− 0.8	11	3,171	nw.	19	nw.	14	13	4	11	5.6	22.6	3.5
Burlington	404	11	48	29.62	30.09	+ .06	21.8	+ 3.9	51	17	30	− 5	15	13	31	.....	.....	.....	2.09	+ 0.7	15	7,999	s.	46	s.	23	5	4	19	7.4	16.0	0.5
Northfield	876	12	60	29.10	30.09	+ .05	19.0	+ 1.8	58	16	32	−14	15	6	43	17	14	84	2.02	− 0.2	14	4,566	s.	39	sw.	17	3	12	13	7.2	25.4	16.0
Boston	125	115	188	29.92	30.06	+ .02	32.6	+ 4.6	59	16	40	8	25	26	25	30	25	75	2.64	− 0.8	9	6,950	w.	36	e.	28	6	14	8	6.2	23.2	1.0
Nantucket	12	14	90	30.02	30.03	− .01	33.6	+ 1.0	59	17	38	20	25	29	18	32	29	84	2.89	− 0.2	11	10,909	nw.	72	ne.	20	6	6	16	6.9	3.4	0.0
Block Island	26	11	46	30.02	30.04	− .02	33.0	+ 1.8	50	17	38	12	25	28	19	31	29	82	1.37	− 2.9	11	13,058	nw.	69	ne.	20	8	7	13	6.5	4.4	T.
Providence	160	215	251	29.88	30.06	+ .01	31.4	+ 2.4	58	16	39	8	25	24	27	29	25	79	2.23	− 2.2	9	8,316	nw.	49	nw.	14	6	14	8	6.1	17.4	1.4
Hartford	159	122	140	29.90	30.08	+ .01	31.2	+ 4.0	60	16	39	7	25	24	30	28	23	72	3.87	+ 0.3	11	4,618	nw.	33	nw.	17	5	10	13	6.6	21.2	3.9
New Haven	106	74	153	29.96	30.08	+ .01	32.2	+ 3.9	54	17	39	7	25	25	26	29	25	77	3.44	− 0.3	10	6,491	ne.	38	ne.	20	7	10	11	6.0	15.7	2.0
Middle Atlantic States.							36.8	+ 3.9										76	3.16	− 0.6										6.3		
Albany	97	102	115	29.98	30.09	+ .02	27.8	+ 4.2	52	17	36	4	21	19	31	25	22	82	2.28	− 0.2	9	5,035	s.	39	s.	23	10	9	9	5.6	19.7	T.
Binghamton	871	10	84	29.10	30.06	− .02	27.8	+ 3.1	60	16	37	− 5	21	19	38	.....	.....	.....	3.06	+ 1.2	13	3,878	nw.	27	sw.	23	4	6	18	7.4	24.4	T.
New York	314	414	454	29.72	30.08	.00	34.8	+ 4.1	63	16	42	11	25	28	30	31	25	70	4.90	+ 1.2	10	11,977	nw.	70	nw.	14	4	11	13	6.6	13.5	T.
Harrisburg	374	94	104	29.68	30.10	+ .01	34.9	+ 5.0	68	16	41	15	25	29	36	31	25	71	2.67	0.0	12	4,485	ne.	26	nw.	17	4	9	15	6.9	16.6	1.0
Philadelphia	117	123	190	29.96	30.09	− .01	37.6	+ 4.8	68	16	45	16	25	30	34	35	32	84	4.40	+ 1.0	10	7,507	nw.	37	ne.	20	4	11	13	6.7	8.2	T.
Reading	325	81	98	29.73	30.10	.....	34.4	.....	69	16	41	11	25	28	37	31	25	71	2.66	− 0.8	11	4,315	nw.	29	nw.	14	5	7	16	7.0	14.5	T.
Scranton	805	111	119	29.19	30.08	.00	31.6	+ 4.7	64	16	39	8	21	24	33	28	24	78	2.84	+ 0.1	11	4,909	sw.	33	w.	14	6	6	16	6.8	16.0	2.4
Atlantic City	52	37	48	30.02	30.08	− .03	37.6	+ 4.6	62	17	44	15	25	32	26	34	31	79	3.74	+ 0.5	9	5,418	nw.	34	ne.	20	7	11	10	5.4	2.7	0.0
Cape May	18	13	49	30.09	30.11	.00	38.4	+ 4.3	60	17	44	20	25	32	22	35	32	82	2.83	− 0.5	11	6,634	nw.	38	ne.	20	11	4	13	5.5	2.6	0.0
Sandy Hook	22	10	55	30.06	30.08	.....	34.1	.....	57	16	39	14	25	29	24	32	29	82	3.11	.....	10	11,516	w.	65	n.	20	5	12	11	6.5	9.1	0.0
Trenton	190	159	183	29.86	30.08	.....	34.2	.....	66	16	42	9	25	27	34	31	26	74	3.44	+ 0.2	10	8,194	nw.	49	ne.	20	4	12	12	6.4	14.0	0.5
Baltimore	123	100	113	29.96	30.09	− .02	39.0	+ 4.4	73	16	46	20	25	32	36	34	29	70	2.85	− 0.7	13	4,367	sw.	25	w.	11	5	10	13	6.5	7.2	0.0
Washington	112	62	85	29.97	30.10	− .01	39.0	+ 4.5	73	16	47	21	21	31	35	34	27	68	2.29	− 1.1	11	4,860	n.	34	n.	18	6	9	13	6.4	5.1	0.0
Lynchburg	681	153	188	29.33	30.09	− .02	41.4	+ 3.2	70	16	51	23	26	32	33	36	31	72	2.60	− 0.9	8	5,043	nw.	34	nw.	11	10	7	11	5.3	1.3	0.0
Norfolk	91	170	205	29.99	30.09	− .02	45.0	+ 3.2	71	16	53	28	25	37	30	40	35	75	3.02	− 0.7	9	9,054	ne.	48	w.	11	6	11	11	6.0	T.	0.0
Richmond	144	11	52	29.94	30.10	− .01	42.0	+ 2.1	72	14	51	25	21	33	32	37	34	82	3.52	+ 0.4	8	5,804	ne.	32	ne.	14	9	6	13	6.1	1.0	0.0
Wytheville	2,304	49	56	27.65	30.10	− .02	37.6	+ 2.5	67	16	46	16	21	30	36	33	30	78	3.40	− 0.7	8	4,401	w.	28	nw.	11	10	5	13	6.1	7.5	T.
South Atlantic States.							5.03	+ 2.6										79	3.02	− 1.0										5.6		
Asheville	2,255	70	84	27.69	30.11	− .02	42.2	+ 3.7	71	16	51	22	24	34	34	37	33	77	3.85	− 0.8	14	6,407	nw.	31	e.	10	9	5	14	6.0	0.8	0.0
Charlotte	779	55	62	29.24	30.09	− .03	45.5	+ 1.4	72	14	54	22	22	37	29	41	38	80	4.61	+ 0.2	12	3,718	sw.	29	w.	11	9	4	15	6.0	2.9	0.0
Hatteras	11	12	50	30.06	30.07	− .04	48.6	+ 2.0	68	20	55	34	25	42	30	46	44	87	3.52	− 1.0	14	10,386	n.	44	nw.	22	8	8	12	6.1	0.0	0.0
Manteo	12	5	42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raleigh	376	103	110	29.68	30.09	− .02	45.0	+ 1.7	73	16	54	26	22	36	29	39	34	72	3.52	− 0.8	9	5,542	ne.	33	nw.	11	6	9	13	6.3	4.6	0.0
Wilmington	78	81	91	30.01	30.10	− .02	50.5	+ 2.8	77	9	59	33	22	42	29	45	42	82	3.32	− 0.1	11	5,079	w.	34	s.	8	7	10	11	5.6	0.0	0.0
Charleston	48	11	92	30.04	30.09	− .03	53.6	+ 1.9	79	17	61	37	22	46	26	49	46	86	1.26	− 2.2	10	6,966	sw.	33	n.	2	9	7	12	5.6	0.0	0.0
Columbia, S. C	351	41	57	29.71	30.10	− .01	50.2	+ 2.4	76	14	59	29	22	41	31	44	39	73	4.49	− 0.1	12	4,481	ne.	33	w.	11	8	11	9	5.5	0.2	0.0
Due West	711	10	55	29.33	30.12	.....	46.9	.....	72	14	56	20	22	38	32	.....	.....	.....	6.09	.....	13	5,601	sw.	37	w.	11	8	11	9	5.4	1.7	0.0
Greenville, S. C	1,039	113	122	28.96	30.08	.....	46.8	.....	76	14	56	25	3	38	32	41	37	78	8.87	.....	12	5,371	ne.	43	nw.	11	10	8	10	5.6	0.2	0.0
Augusta	180	62	77	29.90	30.09	− .03	52.0	+ 3.9	80	8	62	32	26	43	32	46	42	77	3.85	− 0.5	11	3,556	nw.	28	nw.	11	9	6	13	5.7	T.	0.0
Savannah	65	150	194	30.02	30.09	− .03	55.6	+ 3.1	82	8	64	36	24	47	33	49	46	81	1.17	− 2.1	9	7,972	nw.	45	w.	11	13	6	9	4.7	0.0	0.0
Jacksonville	43	209	245	30.05	30.10	− .05	59.6	+ 2.7	81	8	68	39	24	51	28	52	49	80	0.62	− 2.8	8	7,522	sw.	45	sw.	23	13	8	7	4.2	0.0	0.0
Florida Peninsula.							68.3	+ 0.7										77	1.51	− 1.0										4.0		
Key West	22	10	64	30.06	30.08	+ .01	71.9	+ 1.1	83	6	77	56	27	67	16	66	63	78	1.80	+ 0.2	5	7,031	ne.	32	nw.	25	16	9	3	3.4	0.0	0.0
Miami	25	71	79	30.07	30.10	.....	68.8	0.0	82	2	76	43	26	62	28	63	60	76	1.15	− 1.6	2	5,587	e.	30	nw.	25	15	8	5	4.1	0.0	0.0
Sand Key	23	39	72	30.03	30.06	− .04	71.2	.....	79	10	74	60	25	69	12	66	63	76	2.14	.....	4	10,258	ne.	43	nw.	25	12	14	2	3.7	0.0	0.0
Tampa	35	79	92	30.06	30.10	.00	64.2	+ 0.9	83	7	73	43	26	55	27	57	54	79	1.59	− 1.7	7	3,835	ne.	24	nw.	24	11	10	7	4.7	0.0	0.0
East Gulf States.							53.2	+ 2.4										76	3.95	− 0.6										5.0		
Atlanta	1,174	190	216	28.84	30.10	− .02	48.1	+ 2.9	72	14	56	27	24	40	30	43	39	75	7.37	+ 2.7	10	7,986	nw.	40	nw.	11	12	1	15	5.6	T.	0.0
Leesburg	279	10	55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Macon	370	78	87	29.70	30.10	− .02	51.3	+ 2.4	77	15	61	29	3	42	34	45	40	74	2.24	− 2.3	8	3,913	nw.	24	nw.	11	9	6	13	6.2	0.0	0.0
Thomasville	273	49	58	29.80	30.10	− .02	56.4	+ 1.4	78	15	66	36	24	47	32	49	45	76	1.27	− 3.2	7	3,223	sw.	19	sw.	11	12	7	9	4.9	0.0	0.0
Pensacola	56	149	185	30.04	30.10	− .01	55.6	+ 0.1	72	17	62	36	20	49	22	52	50	84	2.16	− 2.3	7	8,594	n.	36	sw.	19	12	4	12	5.3	0.0	0.0
Anniston	741	9	57	29.30	30.11	− .01	48.6	+ 2.8	75	15	59	25	3	38	36	.....	.....	.....	7.75	+ 3.1	12	4,259	nw.	25	se.	19	11	9	8	4.9	0.0	0.0
Birmingham	700	11	48	29.34	30.12	.00	50.0	+ 1.7	76	8	60	28	24	40	33	44	39	72	7.32	+ 2.6	12	5,138	n.	26	w.	10	9	11	8	5.1	T.	0.0
Mobile	57	125	161	30.04	30.10	− .01	56.0	+ 2.8	80	5	64	35	20	48	26	51	47	79	1.41	− 4.0	8	7,180	s.	33	nw.	23	12	7	9	4.6	0.0	0.0
Montgomery	223	100	112	29.86	30.11	− .01	53.0	+ 1.7	77	16	62	34	24	44	30	47	42	72	4.87	− 0.6	9	4,586	sw.	25	w.	10	14	5	9	4.5	0.0	0.0
Corinth	469	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meridian	375	85	93	29.69	30.10	− .01	52.5	+ 3.4	80	8	63	29	3	42	35	46	41	73	3.87	+ 1.0	10	4,386	nw.	31	nw.	24	15	5	8	4.4	T.	0.0
Vicksburg	247	65	73	29.83	30.11	+ .01	54.0	+ 3.1	76	7	63	31	19	45	31	48	43	74	3.24	− 1.4	11	5,610	n.	34	nw.	24	14	3	11	4.8	0.0	0.0
New Orleans	53	76	84	30.04	30.10	+ .01	60.2	+ 3.9	80	7	68	37	20	52	29	54	50	76	1.94	− 2.5	7	2,849	sw.	22	sw.	24	13	8	7	4.4	0.0	0.0
West Gulf States.							53.7	+ 3.7										72	1.98	− 0.7										4.5		
Shreveport	249	77	93	29.82	30.10	+ .01	53.6	+ 3.6	79	7	64	29	20	44	32	46	40	68	1.91	− 1.7	6	5,567	se.	26	nw.	24	13	6	9	4.7	0.0	0.0
Bentonville	1,303	11	44	28.67	30.07	− .03	44.0	+ 5.5	76	13	55	11	20	33	36	.....	.....	.....	1.31	− 1.2	7	4,450	nw.	27	s.	15	13	9	6	4.6	6.5	0.0
Fort Smith	457	79	94	29.58	30.07	− .03	46.8	+ 5.0	79	13	57	12	20	36	37	41	35	69	3.03	+ 0.3	6	5,707	e.	42	sw.	7	17	3	8	4.1	18.3	0.0
Little Rock	357	136	144	29.69	30.08	− .03	49.0	+ 4.9	75	13	58	23	20	40	31	42	37	70	6.86	+ 2.7	8	6,962	s.	60	nw.	24	15	7	6	4.2	11.6	0.0
Brownsville	57	4	26	.....	.....	.....	63.8	.....	82	16	75	34	21	53	37	.....	.....	.....	0.65	.....	4	.....	n.	.....	.....	.....	.....	.....	.....	.....	0.0	0.0
Corpus Christi	20	69	77	30.05	30.07	+ .02	60.9	+ 3.2	80	6	69	36	21	53	32	55	51	76	0.17	− 1.9	3	8,282	s.	38	n.	18	8	9	11	5.3	0.0	0.0
Dallas	512	109	117	29.54	30.10	.....	52.0	.....	80	13	63	30	20	41	34	.....	.....	.....	1.97	.....	4	6,348	nw.	36	s.	15	13	8	7	4.2	T.	0.0
Fort Worth	670	106	114	29.34	30.06	− .01	52.0	+ 3.9	80	13	63	29	20	41	38	44	38	68	2.62	+ 1.4	4	7,333	nw.	35	s.	15	11	7	10	4.5	T.	0.0
Galveston	54	106	114	30.04	30.10	+ .03	58.0	+ 2.4	73	7	64	37	20	52	24	54	52	87	0.30	− 2.8	5	7,828	se.	33	nw.	19	13	5	10	4.5	0.0	0.0
Groesbeck	461	11	56	29.59	30.08	.....	54.2	.....	84	4	66	31	21	42	41	.....	.....	.....	1.19	.....	4	8,381	n.	39	nw.	7	13	4	11	4.8	0.0	0.0
Houston	138	111	121	29.94	30.09	.....	58.2	+ 4.2	80	5	68	35	20	48	32	.....	.....	.....	1.45	.....	7	6,094	se.	30	nw.	19	15	5	8	4.2	0.0	0.0
Palestine	510	64	72	29.54	30.08	.00	54.4	+ 3.5	79	13	65	29	20	44	33	46	39	64	2.16	− 1.2	6	6,067	n.	27	s.	6	12	6	10	4.9	0.0	0.0
Port Arthur	34	58	66	30.04	30.08	.....	57.3	.....	74	16	65	35	20	49	27	52	49	83	1.67	.....	7	6,811	s.	36	nw.	19	13	7	8	4.7	0.0	0.0
San Antonio	701	119	132	29.33	30.06	+ .01	58.4	+ 4.0	84	26	71	31	21	46	40	49	40	59	0.23	− 1.6	2	6,045	se.	37	nw.	7	14	7	7	3.9	0.0	0.0
Taylor	582	55	63	29.50	30.11	+ .05	55.4	+ 1.0	81	26	67	31	21	43	40	.....	.....	.....	1.26	− 1.3	5	6,600	n.	30	n.	7	11	9	8	4.8	0.0	0.0

TABLE I.—*Climatological data for Weather Bureau Stations, February, 1921*—Continued.

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.													Precipitation.			Wind.										
	Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	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.		Miles.								0-10	In.	In.
Ohio Valley and Tennessee.							**39.4**	**+ 3.9**										**76**	**3.40**	**− 0.2**										**7.2**		
Chattanooga	762	189	213	29.29	30.12	− .01	46.2	+ 2.5	75	14	55	25	3	38	34	41	35	72	7.43	+ 2.5	16	5,716	sw.	40	sw.	10	8	10	10	5.9	1.6	0.0
Knoxville	996	102	111	29.02	30.09	− .03	44.6	+ 3.8	73	15	53	27	24	36	30	40	35	75	4.65	− 0.2	14	4,314	sw.	36	sw.	10	8	3	17	6.6	1.0	0.0
Memphis	399	76	97	29.68	30.12	+ .01	47.6	+ 4.3	73	14	55	26	20	40	28	42	37	71	6.09	+ 1.7	9	6,746	n.	32	sw.	10	12	6	10	4.9	8.0	0.0
Nashville	546	168	191	29.51	30.10	− .02	45.1	+ 4.0	74	14	53	24	25	37	35	39	35	73	4.70	+ 0.4	12	6,859	nw.	43	nw.	26	6	7	15	6.3	2.2	0.0
Lexington	989	193	230	29.00	30.10	− .01	38.2	+ 2.6	70	15	45	17	18	31	28	.....	.....	.....	2.62	− 0.6	14	9,732	sw.	56	sw.	16	4	7	17	7.6	8.9	0.0
Louisville	525	219	255	29.51	30.11	.00	40.0	+ 3.4	70	15	47	20	24	33	27	36	33	78	2.65	− 1.1	9	8,633	s.	44	sw.	16	5	5	18	7.2	9.0	0.0
Evansville	431	139	175	29.62	30.10	− .01	40.0	+ 4.2	71	14	47	21	20	33	26	36	32	74	4.69	+ 1.6	12	8,139	sw.	40	sw.	16	4	9	15	6.8	8.5	0.0
Indianapolis	822	194	230	29.16	30.07	− .03	36.2	+ 5.5	68	15	43	17	18	30	31	32	28	76	1.28	− 1.8	7	8,436	w.	40	w.	22	2	8	18	7.9	3.9	0.0
Royal Center	736	11	55	29.24	30.06	.....	33.2	.....	67	15	39	13	18	27	34	.....	.....	.....	0.79	.....	8	7,239	w.	38	w.	22	1	5	22	8.5	0.3	0.0
Terre Haute	575	96	129	29.42	30.05	.....	37.8	.....	70	15	45	18	18	31	27	34	30	78	1.06	.....	6	6,972	nw.	37	nw.	22	1	9	18	8.0	0.1	0.0
Cincinnati	628	11	51	29.40	30.10	.00	37.0	+ 4.6	70	15	44	15	18	30	37	.....	31	81	2.25	− 1.0	10	5,851	sw.	34	sw.	16	3	9	16	7.6	2.8	0.0
Columbus	824	179	222	29.19	30.09	.00	34.6	+ 3.6	67	15	41	16	18	28	39	32	29	81	1.90	− 1.2	10	8,118	nw.	43	sw.	16	3	6	19	7.9	4.2	0.0
Dayton	899	181	216	29.06	30.05	.....	35.8	.....	68	15	42	16	18	29	35	32	28	77	2.25	− 0.8	9	7,658	sw.	39	w.	16	4	5	19	7.5	4.1	0.0
Elkins	1,947	59	67	27.97	30.10	.00	35.6	+ 4.1	71	16	46	3	21	26	47	31	28	79	3.09	− 0.1	12	4,103	w.	30	sw.	11	3	8	17	7.6	11.3	T.
Parkersburg	638	77	84	29.42	30.09	− .01	38.2	+ 4.3	74	16	46	15	21	31	41	34	30	75	2.18	− 1.1	13	4,220	sw.	32	nw.	17	6	4	18	7.1	6.5	0.0
Pittsburgh	842	353	410	29.14	30.08	− .01	35.6	+ 3.8	70	16	43	14	21	29	40	32	28	74	1.80	− 0.9	13	8,093	sw.	43	w.	17	2	4	22	8.3	5.4	0.0
Lower Lake Region.							**29.9**	**+ 5.2**										**79**	**2.03**	**− 0.4**										**7.8**		
Buffalo	767	247	280	29.19	30.05	− .01	29.4	+ 5.4	56	16	35	12	24	24	29	27	24	80	2.50	− 0.4	15	11,537	w.	64	sw.	23	3	8	17	7.8	18.1	0.5
Canton	448	10	61	29.55	30.05	.....	20.9	+ 2.9	55	16	30	− 7	15	12	39	.....	.....	.....	1.39	− 1.2	12	7,069	sw.	48	w.	17	6	9	13	6.5	10.0	0.3
Oswego	335	76	91	29.68	30.06	.00	28.2	+ 4.3	56	16	34	10	25	22	22	26	24	83	2.06	− 0.5	14	7,607	s.	33	nw.	17	2	5	21	8.2	17.4	T.
Rochester	523	86	102	29.48	30.07	+ .01	30.2	+ 6.3	61	16	36	10	25	24	23	27	22	72	2.95	+ 0.1	13	6,109	w.	34	w.	23	3	6	19	7.8	27.5	1.5
Syracuse	597	97	113	29.40	30.07	.00	28.6	+ 4.8	59	16	35	6	21	22	31	.....	.....	.....	2.47	+ 0.7	16	7,694	s.	42	nw.	17	2	7	19	7.9	17.8	0.0
Erie	714	130	166	29.26	30.05	− .02	31.3	+ 5.2	63	16	37	16	21	25	33	30	26	81	1.87	− 1.0	12	9,181	ne.	47	w.	16	1	7	20	8.1	17.6	0.0
Cleveland	762	190	201	29.22	30.07	.00	32.1	+ 5.3	64	16	38	18	21	27	37	29	26	79	2.19	− 0.4	13	9,257	nw.	51	w.	16	1	8	19	8.4	10.8	0.0
Sandusky	629	62	103	29.36	30.06	− .01	32.6	+ 5.5	65	16	38	19	17	27	37	.....	.....	.....	1.91	− 0.5	13	8,374	sw.	42	sw.	16	3	6	19	8.1	7.5	0.0
Toledo	628	208	243	29.36	30.07	.00	32.0	+ 5.2	63	16	38	17	20	26	36	29	25	77	1.43	− 0.5	13	9,381	sw.	51	w.	17	5	5	18	7.4	6.8	0.0
Fort Wayne	856	113	124	29.11	30.06	.....	32.8	+ 7.0	66	15	39	15	1	26	37	30	27	80	0.88	.....	9	6,833	w.	35	w.	17	2	6	20	8.2	2.3	0.0
Detroit	730	218	245	29.24	30.06	.00	30.4	+ 5.4	60	16	36	16	20	24	28	28	24	80	1.54	− 0.6	11	8,056	w.	50	sw.	16	5	6	17	7.2	14.2	4.0
Upper Lake Region.							**25.7**	**+ 6.5**										**81**	**1.09**	**− 0.7**										**7.5**		
Alpena	609	13	92	29.36	30.05	+ .02	24.2	+ 6.4	58	16	31	9	24	18	36	23	20	82	0.86	− 0.9	11	7,507	w.	42	sw.	16	2	8	18	7.7	11.1	1.0
Escanaba	612	54	60	29.34	30.04	− .02	22.0	+ 6.7	48	16	30	− 2	27	14	29	21	18	83	1.20	− 0.1	6	5,521	s.	30	sw.	16	6	9	13	6.7	12.0	2.5
Grand Haven	632	54	89	29.34	30.04	− .01	29.4	+ 5.2	62	15	35	8	20	24	34	27	24	81	1.03	− 0.9	14	8,089	w.	51	w.	23	5	4	19	7.5	9.5	2.4
Grand Rapids	707	70	87	29.26	30.06	− .01	30.0	+ 4.5	59	16	36	12	20	24	32	27	24	77	1.13	− 0.8	10	4,316	w.	28	w.	16	5	6	17	7.3	8.5	2.0
Houghton	684	62	99	29.27	30.02	− .03	20.0	+ 4.0	46	16	28	−10	20	12	39	.....	.....	.....	3.20	+ 1.5	18	6,027	e.	38	ne.	26	0	6	22	8.5	32.6	19.5
Lansing	878	11	62	29.07	30.04	.....	28.3	+ 6.7	59	16	35	9	24	22	31	26	24	85	1.25	− 0.8	14	4,661	w.	25	w.	16	2	5	21	8.0	10.9	3.3
Ludington	637	60	66	29.32	30.04	.....	27.8	.....	57	15	34	8	20	22	34	26	23	81	1.08	.....	14	7,232	w.	41	sw.	16	4	6	18	7.2	9.4	2.8
Marquette	734	77	111	29.22	30.05	.00	23.5	+ 7.6	49	16	30	2	20	17	34	21	19	84	1.29	− 0.4	11	7,071	w.	39	sw.	16	1	9	18	8.0	13.1	4.4
Port Huron	638	70	120	29.33	30.05	.00	28.4	+ 6.4	59	16	34	12	18	23	24	26	24	84	1.20	− 1.0	11	7,880	sw.	50	w.	17	5	7	16	6.9	13.9	5.0
Saginaw	641	69	77	29.34	30.05	.....	28.2	.....	60	16	34	12	18	22	32	26	22	78	1.22	− 0.8	10	6,135	sw.	38	sw.	16	4	6	18	7.9	10.7	6.0
Sault Sainte Marie	614	11	52	29.33	30.06	+ .03	19.8	+ 6.4	50	16	28	− 6	27	11	32	18	15	82	0.84	− 0.6	16	5,029	se.	46	sw.	16	5	8	15	6.8	8.5	5.0
Chicago	823	140	310	29.14	30.06	− .02	33.4	+ 8.0	66	15	39	17	17	28	32	31	26	74	0.38	− 1.8	6	8,535	w.	50	w.	16	3	8	17	7.7	0.3	0.0
Green Bay	617	109	144	29.34	30.03	− .03	25.6	+ 8.4	57	15	33	7	20	18	38	23	19	75	0.73	− 0.9	9	6,788	sw.	56	sw.	16	2	6	20	8.1	9.1	2.9
Milwaukee	681	125	139	29.27	30.03	− .03	30.4	+ 8.5	62	15	36	13	17	25	37	28	24	76	0.47	− 1.4	8	7,071	w.	35	w.	16	2	6	20	8.1	3.7	0.4
Duluth	1,133	11	47	28.74	30.02	− .06	19.0	+ 5.4	44	13	27	−16	19	11	31	17	15	88	0.45	− 0.5	7	7,771	nw.	44	sw.	16	7	9	12	6.1	6.2	3.0
North Dakota.							**19.8**	**+12.9**										**80**	**0.41**	**− 0.2**										**5.7**		
Moorhead	940	50	58	28.97	30.03	− .08	19.2	+12.2	50	27	28	−11	19	10	32	17	15	84	0.63	− 0.1	7	6,169	s.	33	nw.	16	5	10	13	6.5	6.0	0.1
Bismarck	1,674	8	57	28.19	30.05	− .07	22.8	+14.5	59	12	35	−13	19	11	44	20	15	76	0.15	− 0.4	5	6,354	nw.	43	nw.	16	7	12	9	5.3	2.3	0.0
Devils Lake	1,482	11	44	28.35	29.99	− .12	15.4	+10.9	42	27	24	−20	19	6	31	14	12	88	0.46	− 0.1	10	7,342	nw.	48	nw.	16	8	6	14	6.3	5.1	0.2
Ellendale	1,457	10	56	28.40	30.01	.....	22.2	.....	58	12	34	−11	19	10	41	.....	.....	.....	0.25	.....	7	9,515	nw.	53	nw.	16	9	13	6	5.2	2.3	0.0
Grand Forks	835	12	89	.....	.....	.....	14.6	.....	43	15	25	−20	19	4	33	.....	.....	.....	0.77	.....	7	.....	e.	52	nw.	16	11	10	7	.....	7.5	1.5
Williston	1,878	41	48	27.95	30.00	− .11	22.0	+14.1	54	12	33	−13	6	1	37	19	14	74	0.39	− 0.1	5	5,890	w.	36	nw.	16	9	9	10	5.2	2.9	0.0
Upper Mississippi Valley.							**33.2**	**+ 8.7**										**77**	**0.78**	**− 0.9**										**6.4**		
Minneapolis	918	102	208	28.98	30.00	.....	24.2	.....	63	15	32	− 6	19	16	41	.....	.....	.....	0.51	− 0.2	6	7,491	s.	43	w.	16	8	3	17	6.6	5.6	T.
St. Paul	837	236	261	29.11	30.04	− .05	23.8	+ 8.8	61	15	32	− 4	19	18	42	.....	.....	.....	0.46	− 0.4	6	7,874	se.	52	sw.	16	7	7	14	6.4	5.8	0.0
La Crosse	714	11	48	29.25	30.05	− .03	26.5	+ 8.1	65	15	35	7	19	18	47	.....	.....	.....	0.53	− 0.5	9	3,682	s.	28	sw.	16	8	5	15	6.9	5.2	0.0
Madison	974	70	78	28.97	30.07	.00	26.4	+ 6.8	63	15	34	8	17	19	40	25	23	87	0.32	− 1.2	6	6,432	w.	40	ne.	26	2	9	17	7.8	3.1	0.0
Wausau	1,247	4	.....	28.65	30.03	.....	21.8	.....	49	16	30	− 3	27	13	37	.....	.....	.....	0.75	.....	6	.....	se.	.....	.....	.....	7	6	15	6.8	10.3	2.2
Charles City	1,015	10	49	28.94	30.06	− .04	26.2	+11.1	64	15	36	5	9	17	41	23	21	84	0.95	0.0	7	4,876	nw.	40	nw.	16	6	11	11	6.3	12.6	0.0
Davenport	606	71	79	29.38	30.07	− .03	32.8	+ 9.0	73	15	41	12	17	25	40	30	26	78	0.31	− 1.2	5	5,478	w.	31	sw.	16	7	8	13	6.3	0.5	0.0
Des Moines	861	84	97	29.10	30.04	− .07	33.2	+ 9.1	75	15	43	12	17	24	43	29	24	73	0.92	− 0.2	9	5,191	sw.	35	sw.	15	10	4	14	6.1	6.6	0.0
Dubuque	698	81	96	29.30	30.08	− .01	29.8	+ 8.2	68	15	38	10	17	22	44	27	23	79	0.29	− 1.1	4	4,517	nw.	25	sw.	16	5	9	14	7.0	2.9	0.0
Keokuk	614	64	78	29.38	30.07	− .04	36.7	+10.1	74	15	45	16	17	28	33	32	26	68	0.48	− 1.1	4	5,629	n.	35	sw.	16	7	9	12	6.3	3.2	0.0
Cairo	356	87	93	29.69	30.08	− .04	42.7	+ 5.1	73	14	50	22	20	36	29	38	34	74	3.72	+ 0.4	8	7,104	s.	45	ne.	19	6	7	15	6.9	9.0	0.0
Peoria	609	11	45	29.39	30.07	− .03	34.4	+ 9.5	72	15	42	13	18	27	33	31	28	83	0.29	− 2.4	4	5,010	s.	27	w.	17	9	5	14	5.9	0.2	0.0
Springfield, Ill	644	10	91	29.36	30.06	− .04	37.5	+ 8.4	69	15	44	18	20	31	30	34	30	79	0.71	− 2.1	6	5,903	w.	27	w.	16	6	4	18	6.8	0.7	0.0
Hannibal	534	74	109	29.48	30.06	− .05	38.9	+ 9.8	74	15	47	19	20	30	33	.....	.....	.....	0.40	− 1.2	5	6,305	sw.	37	sw.	16	9	8	11	5.3	T.	0.0
St. Louis	567	265	303	29.44	30.06	− .05	42.1	+ 8.6	73	15	50	23	20	34	33	36	30	68	1.08	− 1.7	7	8,59?	s.	58	s.	15	10	9	9	5.1	T.	0.0
Missouri Valley.							**35.8**	**+11.5**										**72**	**4.00**	**−0.6**										**4.8**		
Columbia, Mo.	781	11	84	29.20	30.06	−.05	40.2	+10.1	74	15	50	20	20	31	33	.....	.....	.....	0.45	−1.7	4	6,048	sw.	39	sw.	16	11	9	8	4.8	T.	0.0
Kansas City	963	161	181	29.00	30.06	−.05	40.7	+10.6	73	14	50	20	20	32	33	35	28	64	0.32	−1.3	4	8,453	sw.	47	nw.	11	13	7	8	4.6	0.4	0.0
St. Joseph	967	11	49	28.98	30.04	.....	38.4	.....	73	15	48	19	20	29	35	33	26	67	0.39	.....	5	6,271	nw.	42	w.	16	13	5	10	4.7	0.1	0.0
Springfield, Mo.	1,324	98	104	28.64	30.07	−.04	42.4	+ 8.8	75	14	52	19	20	33	32	36	31	70	0.85	−1.4	7	7,426	s.	39	nw.	24	15	4	9	4.0	4.7	0.0
Iola	984	11	50	29.00	30.08	−.02	41.8	+ 9.8	75	13	54	18	20	30	38	.....	.....	.....	0.09	−1.0	2	5,152	s.	32	s.	15	11	10	7	5.1	T.	0.0
Topeka	987	92	107	.....	.....	.....	39.8	+ 9.8	76	14	50	19	20	29	39	.....	.....	.....	0.23	−1.2	5	7,390	n.	40	s.	15	13	9	6	4.2	0.4	0.0
Drexel	1,299	10	53	28.61	30.04	.....	33.1	.....	70	15	43	9	7	23	39	29	25	80	0.81	.....	7	8,215	nw.	53	w.	16	11	10	7	5.0	7.6	0.0
Lincoln	1,189	11	84	28.74	30.04	−.06	36.4	+11.6	74	15	47	11	7	26	41	32	28	76	0.37	−0.3	6	7,481	s.	58	w.	16	10	9	9	5.0	4.0	0.0
Omaha	1,105	115	122	28.84	30.06	−.05	35.8	+12.1	74	15	45	12	19	26	35	31	25	69	0.69	−0.1	7	5,915	nw.	36	nw.	16	11	9	8	4.8	7.5	0.0
Valentine	2,598	47	54	27.26	30.05	−.04	31.8	+10.6	66	28	43	− 5	7	20	40	28	23	73	0.27	−0.3	3	7,209	w.	46	nw.	16	10	12	6	4.5	4.1	0.0
Sioux City	1,135	94	164	28.80	30.06	−.06	30.8	+11.0	67	15	40	5	7	22	38	27	23	75	1.05	+0.5	6	7,681	s.	52	nw.	15	6	13	9	5.8	9.8	0.0
Huron	1,306	59	74	28.61	30.06	−.06	27.4	+14.5	66	15	39	− 4	19	16	47	23	20	77	0.03	−0.4	2	6,851	se.	42	w.	16	14	9	5	4.0	0.4	0.0
Pierre	1,572	70	75	28.32	30.03	−.08	32.3	+16.4	66	15	45	− 3	19	20	50	28	23	74	0.05	−0.4	2	6,516	nw.	50	nw.	16	8	10	10	5.4	0.6	0.0
Yankton	1,233	49	57	28.68	30.05	−.07	30.4	+12.2	66	15	42	− 3	7	19	40	.....	.....	.....	0.39	−0.2	5	5,408	nw.	36	nw.	16	7	13	8	6.0	5.7	0.0

TABLE I.—*Climatological data for Weather Bureau Stations, February, 1921*—Continued.

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.									Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity.	Precipitation.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow, sleet, and ice on ground at end of month.
	Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction	Maximum velocity: Miles per hour.	Maximum velocity: Direction.	Maximum velocity: Date.						
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles.								0-00	In.	In.
Northern Slope.							30.4	+8.4										65	0.35	−0.4										5.3		
Billings	3,140	5																														
Havre	2,505	11	44	27.31	30.02	−.05	28.8	+13.8	66	24	41	−4	17	17	39	25	20	73	0.15	−0.3	5	6,265	sw.	38	sw.	7	6	15	7	5.8	1.5	0.0
Helena	4,110	87	112	25.77	30.04	−.07	33.8	+11.6	63	12	43	−1	17	24	34	29	19	55	0.25	−0.5	4	5,621	sw.	41	s.	14	2	4	22	7.6	3.1	0.0
Kalispell	2,973	48	56	26.92	30.06	−.02	30.2	+6.4	53	25	38	5	17	22	23	28	24	77	0.66	−0.8	8	2,804	nw.	25	sw.	2	6	8	14	6.7	4.9	0.0
Miles City	2,371	26	48																													
Rapid City	3,259	50	58	26.55	30.06	−.02	34.1	+10.6	70	14	46	5	7	23	46	28	21	58	0.23	−0.2	2	6,348	w.	44	nw.	16	11	8	9	5.0	2.5	0.0
Cheyenne	6,088	84	101	23.94	30.06	+.03	30.2	+3.9	60	25	40	−4	7	20	32	25	18	61	0.36	−0.2	6	10,774	w.	72	w.	15	10	14	4	4.7	4.9	0.0
Lander	5,372	60	68	24.60	30.10	+.02	27.8	+6.0	62	25	40	−7	7	15	39	22	13	60	0.20	−0.4	2	3,087	sw.	62	w.	15	11	16	1	4.0	2.0	T.
Sheridan	3,790	10	47	26.05	30.01		31.9		69	14	45	−6	7	19	43	26	19	65	0.11		4	3,933	nw.	38	nw.	23	16	10	2	3.1	1.3	0.0
Yellowstone Park	6,200	11	48	23.85	30.15	+.05	24.4	+4.8	51	27	34	−10	17	15	40	20	15	67	0.62	−1.2	10	5,861	s.	32	sw.	28	5	11	12	6.6	6.3	5.4
North Platte	2,821	11	51	27.08	30.10	+.03	34.3	+9.7	71	28	46	2	8	22	45	28	22	69	0.36	0.0	2	5,027	w.	39	nw.	24	17	5	6	3.9	3.6	0.0
Middle Slope.							40.0	+7.6										62	0.41	−0.3										3.8		
Denver	5,292	106	113	24.69	30.05	+.01	37.0	+5.9	70	28	48	6	8	26	38	29	20	55	0.27	−0.2	4	5,857	s.	46	w.	16	14	12	2	3.6	4.5	0.0
Pueblo	4,685	80	86	25.27	30.04	+.04	38.2	+6.4	73	25	54	10	8	23	45	29	18	52	0.07	−0.4	2	4,114	nw.	30	nw.	15	13	9	6	4.1	0.7	0.0
Concordia	1,392	50	58	28.56	30.08	−.01	39.6	+10.8	75	15	51	18	17	28	45	33	26	65	0.06	−0.7	1	6,121	w.	42	nw.	21	15	5	8	4.4	0.6	0.0
Dodge City	2,509	11	51	27.44	30.11	+.05	38.7	+7.6	75	15	52	14	8	26	40	31	25	69	0.69	0.0	2	6,757	nw.	39	sw.	15	16	5	7	3.4	7.1	0.0
Wichita	1,358	139	158	28.60	30.07	−.01	42.2	+9.0	77	13	53	22	17	32	36	35	29	67	0.14	−0.9	1	8,769	n.	49	s.	15	17	7	4	3.4	T.	0.0
Altus	1,410	5					45.9		82	14	60	14	20	32	45				1.32		3		ne.				17	1	10		12.2	0.0
Broken Arrow	765	11	52																													
Muskogee	652	4					46.4		79	13	58	9	20	31	38				2.74		6		w.				17	3	8		12.5	0.0
Oklahoma City	1,214	10	47	28.78	30.09	+.02	44.2	+5.7	76	14	55	16	20	33	35	37	30	66	1.23	+0.2	3	7,482	s.	43	s.	15	17	6	5	3.8	8.0	0.0
Southern Slope.							48.4	+3.9										56	2.24	+1.4										4.0		
Abilene	1,738	10	52	28.24	30.08	+.03	49.6	+4.8	83	13	63	21	8	37	40	40	30	57	1.54	+0.5	5	6,677	s.	35	nw.	4	11	7	10	5.0	1.0	0.0
Amarillo	3,676	10	49	26.28	30.08	+.06	41.6	+4.4	77	14	55	13	8	28	42	34	28	68	1.19	+0.3	4	7,253	sw.	42	sw.	15	17	9	2	3.4	11.9	0.0
Del Rio	944	61	71	29.06	30.06	+.06	57.6	+4.0	85	26	71	31	21	44	44				5.78	+4.9	4	6,720	se.	48	e.	27	16	5	7	4.0	0.0	0.0
Roswell	3,566	75	85	26.39	30.04	+.06	44.9	+2.4	80	25	61	16	20	29	48	31	17	42	0.47	−0.1	3	5,561	s.	42	w.	15	15	9	4	3.4	T.	0.0
Southern Plateau.							47.3	+2.4										45	0.15	−0.5										2.6		
El Paso	3,762	110	133	26.21	30.01	+.06	49.4	+0.5	80	26	63	25	20	36	40	37	20	35	0.26	−0.2	4	7,527	w.	46	w.	4	17	7	4	2.8	T.	0.0
Santa Fe	7,013	57	66	23.20	30.04	+.06	34.8	+2.8	63	24	46	10	19	24	31	28	20	59	0.33	−0.5	5	4,995	ne.	40	sw.	15	14	10	4	3.5	4.2	0.0
Flagstaff	6,908	10	59	23.33	30.00	.00	34.8	+4.0	66	25	49	5	8	21	41	27			0.42		3		w.	46	e.	22	18	8	2		3.7	0.0
Phoenix	1,108	76	81	28.83	30.00	+.01	57.6	+3.2	92	25	73	31	8	42	43	44	29	41	0.11	−0.6	3	3,639	e.	30	w.	21	21	6	1	2.2	0.0	0.0
Yuma	141	9	54	29.88	30.03	+.03	60.1	+0.9	92	25	74	37	9	46	38	50	40	53	0.03	−0.6	1	5,005	n.	38	nw.	14	24	4	0	1.3	0.0	0.0
Independence	3,957	9	41	26.04	30.12	+.06	47.0	+3.3	77	2.	61	22	16	33	42	36	20	37	0.02	−0.8	1	4,975	n.	42	se.	14	17	10	1	3.0	T.	0.0
Middle Plateau.							37.4	+4.7										60	0.40	−0.7										4.9		
Reno	4,532	74	81	25.54	30.14	+.06	40.4	+4.8	71	26	54	15	16	27	41	33	25	58	0.18	−1.6	4	4,278	w.	52	sw.	14	9	13	6	4.8	0.9	0.0
Tonopah	6,090	12	20	24.14	30.15		39.0		66	24	48	8	7	30	32	31	20	51	0.28	−0.5	2	6,434	w.	44	nw.	21	14	11	3	3.9	3.3	0.0
Winnemucca	4,344	18	56	25.70	30.16	+.07	36.8	+5.2	67	26	49	7	7	25	37	32	26	69	0.37	−0.6	7	5,336	ne.	38	s.	14	4	10	14	6.9	2.4	0.0
Modena	5,479	10	43	24.65	30.09	+.05	34.6	+3.0	66	26	48	2	16	21	42	28	19	58	0.16	−1.0	4	6,327	w.	59	sw.	14	17	10	1	2.8	1.1	0.0
Salt Lake City	4,360	163	203	25.70	30.15	+.07	36.8	+3.9	65	13	44	12	7	29	25	32	27	67	1.06	−0.3	11	4,373	nw.	44	w.	14	8	8	12	5.9	5.5	0.0
Grand Junction	4,602	60	68	25.43	30.07	+.03	38.2	+6.7	68	14	50	16	7	27	36	31	22	57	0.32	−0.3	5	4,033	se.	48	sw.	15	10	9	9	5.1	2.9	0.0
Northern Plateau.							34.7	+2.6										78	1.28	−0.2										7.4		
Baker	3,471	48	53	26.52	30.20	+.08	28.0	+0.1	49	14	36	−1	17	20	29	26	22	78	1.35	0.0	11	4,305	se.	21	se.	13	6	7	15	6.6	17.9	T.
Boise	2,739	78	86	27.28	30.21	+.09	35.3	+1.5	63	13	44	13	6	27	36	33	29	76	1.23	−0.2	12	3,370	nw.	24	nw.	21	7	5	16	6.9	2.3	0.0
Lewiston	757	40	48	29.32	30.15	+.04	38.9	+2.7	58	24	46	14	17	32	26				1.06	−0.3	12	2,848	e.	25	n.	3	3	6	19	7.9	0.2	0.0
Pocatello	4,477	60	68	25.53	30.17	+.07	30.8	+2.7	56	14	39	4	7	23	28	28	24	76	0.70	−0.2	11	6,795	sw.	44	sw.	15	5	9	14	6.9	6.4	0.0
Spokane	1,929	101	110	28.03	30.13	+.04	34.6	+4.5	55	13	41	11	16	28	20	32	29	80	1.10	−0.8	13	3,851	sw.	25	s.	10	3	4	21	8.0	3.4	0.0
Walla Walla	991	57	65	29.04	30.13	+.02	40.7	+4.3	64	23	47	19	17	35	25	37	34	78	2.21	+0.6	16	3,044	s.	23	sw.	2	3	4	21	7.9	5.8	0.0
North Pacific Coast Region.							43.9	+2.6										84	6.92	+1.7										8.0		
North Head	211	11	56	29.85	30.08	+.02	43.2	+1.1	60	23	47	33	14	39	13	42	40	87	9.87	+4.1	19	8,058	se.	60	se.	28	1	4	23	8.7	4.7	0.0
Port Angeles	29	8	53	30.06	30.10		40.6		59	10	45	23	16	36	18				3.68	+0.6	13	3,145	s.	25	sw.	7	4	2	22	8.2	1.5	0.0
Seattle	125	215	250	29.97	30.11	+.05	42.9	+2.4	62	23	48	26	16	38	18	40	37	81	4.82	+1.0	17	6,756	s.	44	sw.	2	1	7	20	8.1	5.0	0.0
Tacoma	213	113	120	29.87	30.11	+.05	42.7	+2.3	64	23	48	24	16	37	21	41	40	89	5.53	+0.4	19	4,209	sw.	29	ne.	20	1	9	18	8.1	8.0	0.0
Tatoosh Island	86	7	57	29.94	30.04	+.04	42.9	+1.9	51	7	46	33	15	40	12	41	38	84	13.04	+4.3	19	11,511	e.	63	e.	17	4	7	17	7.6	T.	0.0
Yakima	1,071	4					35.6		61	11	44	15	21	27	32				0.59		8		nw.				7	11	10		5.5	0.0
Medford	1,425	4					42.8		66	26	51	24	17	34	32				3.33		12		s.				2	10	16		4.0	0.0
Portland, Oreg.	153	68	106	29.96	30.12	+.04	45.2	+3.9	64	26	51	31	17	40	20	42	39	79	7.21	+1.5	20	4,464	se.	24	e.	16	1	7	20	8.4	2.4	0.0
Roseburg	510	9	57	29.60	30.16	+.06	46.4	+3.8	67	26	54	30	22	39	29	44	41	82	4.31	−0.2	18	1,744	s.	24	sw.	20	1	16	11	6.6	1.0	0.0
Middle Pacific Coast Region.							50.0	+1.0										80	2.33	−2.0										5.8		
Eureka	62	73	89	30.13	30.20	+.09	47.8	+1.0	61	23	54	33	16	42	26	46	45	91	7.45	+0.4	13	4,384	se.	42	nw.	5	3	7	18	7.9	0.0	0.0
Mount Tamalpais	2,375	11	18	27.66	30.16	+.06	47.4	+1.8	66	24	52	29	15	42	17				2.10	−3.6	9	13,509	nw.	72	sw.	13	6	10	12	6.2	0.1	0.0
Point Reyes Light	490	7	18	29.59	30.11		49.5	+0.3	65	23	54	37	15	45	17				0.80		9	13,570	nw.	94	nw.	5	6	10	12	6.6	0.0	0.0
Red Bluff	332	50	56	29.78	30.15	+.04	50.8	+1.5	75	24	60	32	15	41	34	46	40	69	1.44	−2.2	6	3,556	n.	30	se.	20	17	6	5	3.8	0.0	0.0
Sacramento	69	106	117	30.08	30.15	+.06	50.9	+0.7	70	26	59	33	15	43	26	50	48	88	0.54	−2.6	7	4,614	se.	30	se.	14	14	9	5	4.2	0.0	0.0
San Francisco	155	208	243	29.99	30.16	+.06	52.9	+1.6	69	25	60	40	15	46	22	48	44	74	1.38	−2.3	8	5,477	nw.	43	nw.	5	7	9	12	6.0	0.0	0.0
San Jose	141	12	110				50.7	+0.1	73	24	61	30	15	40	37				1.09	−1.4	6	3,854	se.	32	w.	5					0.0	0.0
South Pacific Coast Region.							54.7	+1.8										68	1.00	−1.4										3.6		
Fresno	327	89	98	29.79	30.16	+.08	51.5	+2.3	79	13	62	33	6	41	29	47	42	74	0.61	−0.7	5	3,230	nw.	33	nw.	14	14	6	8	3.8	0.0	0.0
Los Angeles	338	159	191	29.72	30.08	+.02	57.4	+2.3	92	25	68	38	15	47	43	49	42	63	0.86	−2.0	4	3,770	ne.	30	nw.	5	15	9	4	3.2	0.0	0.0
San Diego	87	62	70	29.98	30.07	+.01	55.2	+0.6	89	24	64	39	8	47	36	49	44	72	0.35	−1.6	4	4,382	nw.	38	s.	14	14	8	6	4.1	0.0	0.0
San Luis Obispo	201	32	40	29.91	30.14	+.03	54.6	+2.1	87	24	66	31	15	43	40	47	40	65	2.16	−1.4	6	3,215	n.	22	w.	5	15	9	4	3.2	0.0	0.0
West Indies.																																
San Juan, P. R.	82	8	54	29.95	30.04		75.2		87	25	81	65	12	69	21				1.21	−1.3	13	6,993	e.	36	e.	15	10	13	5	4.7	0.0	0.0
Panama Canal.																																
Balboa Heights	118	7	97	29.76	29.89	+.01	79.8	−0.5	90	7	88	69	17	72	19	72	70	78	2.37	+1.5	4	6,922	nw.	27	nw.	1	4	22	2	5.0	0.0	0.0
Colon	36	7	97	29.86	29.90	.00	80.6	+0.8	87	4	85	72	6	76	13	70	72	78	1.63	+0.1	20	9,666	n.	27	n.	22	3	21	4	5.4	0.0	0.0
Alaska.																																
Juneau	80	11	49				31.4		46	24	36	13	14	27	14	29	26	81	8.86		21	2,891	se.	22	se.	1	4	2	22	8.2	29.8	T.

TABLE II.—*Data furnished by the Canadian Meteorological Service, February, 1921.*

Stations.	Altitude above mean sea level, Jan. 1, 1919.	Pressure.			Temperature of the air.						Precipitation.		
		Station reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. ÷2	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
	Feet.	*Inches.*	*Inches.*	*Inches.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F	125												
Sydney, C. B. I	48	29.99	30.04	+.12	16.8	− 2.5	27.9	5.8	38	−15	5.28	+1.19	46.0
Halifax, N. S	88	29.91	30.02	+.07	22.2	− 0.2	31.7	12.7	43	− 6	3.92	−1.24	18.7
Yarmouth, N. S	65	29.94	30.02	+.03	20.5	− 5.3	33.0	18.1	43	2	4.20	−0.54	31.2
Charlottetown, P. E. I	38	29.98	30.02	+.07	14.3	− 3.3	23.6	5.1	37	−10	3.35	+0.29	20.9
Chatham, N. B	28	30.04	30.08	+.12	12.7	+ 0.2	26.0	−0.5	43	−20	1.88	−2.28	16.3
Father Point, Que	20	30.06	30.09	+.11	12.7	+ 1.2	19.4	2.0	36	19	0.72	−1.49	7.2
Quebec, Que	296	29.74	30.08	+.09	14.1	+ 2.3	22.6	5.6	38	−11	1.20	−2.07	11.4
Montreal, Que	187	29.85	30.07	+.05	18.9	+ 4.4	25.7	12.0	40	00	1.20	−1.87	9.1
Stonecliffe, Ont	489	29.43	30.07	+.06	12.0	+ 2.1	26.6	−2.5	48	−24	1.74	−0.26	16.2
Ottawa, Ont	236	29.82	30.01	−.01	18.7	+ 7.0	28.5	9.0	44	− 8	1.22	−1.47	11.5
Kingston, Ont	285	29.74	30.06	+.02	25.5	+ 7.7	32.9	18.1	50	6	1.04	−1.50	9.4
Toronto, Ont	379	29.63	30.06	+.02	28.5	+ 7.0	35.4	21.6	53	7	1.34	−1.27	11.6
Cochrane, Ont	930												
White River, Ont	1,244	28.61	29.99	−.03	8.0	+ 7.8	24.2	−8.1	39	−38	1.18	−0.34	11.8
Port Stanley, Ont	592												
Southampton, Ont	656	29.30			26.1	+ 6.2	33.0	19.3	54	5	1.11	−1.79	10.9
Parry Sound, Ont	688	29.38	30.01	.00	21.0	+ 6.7	31.6	10.3	48	− 8	1.91	−1.01	19.1
Port Arthur, Ont	644	29.28	30.01	−.04	17.3	+10.9	26.6	8.1	38	−15	1.08	+0.18	9.8
Winnipeg, Man	760	29.13	30.00	−.10	11.0	+12.6	19.8	2.2	40	−26	2.52	+1.54	25.2
Minnedosa, Man	1,690	28.08	29.99	−.10	9.8	+ 7.1	18.6	1.0	38	−34	0.32	−0.29	3.2
Le Pas, Man	860												
Qu'Appelle, Sask	2,115	27.62	29.96	−.12	14.1	+14.7	23.1	5.2	45	−35	1.20	+0.47	11.0
Medicine Hat, Alb	2,144												
Moose Jaw, Sask	1,759												
Swift Current, Sask	2,392	27.33	30.05	−.02	20.5	+12.5	32.0	9.1	56	−17	0.08	−0.66	0.8
Calgary, Alb	3,428												
Banff, Alb	4,521												
Edmonton, Alb	2,150	27.54	29.89	−.13	19.2	+10.9	29.5	9.0	53	−23	1.36	+0.69	13.6
Prince Albert, Sask	1,450	28.35	30.00	−.09	10.7	+13.7	19.9	1.6	46	−36	1.78	+1.09	16.3
Battleford, Sask	1,592	28.15	29.97	−.12	12.1	+12.0	22.6	1.6	50	−35	1.44	+1.07	14.4
Kamloops, B. C	1,262												
Victoria, B. C	230	29.81	30.07	+.07	41.5	+ 2.0	45.6	37.3	55	28	4.28	+0.18	0.6
Barkerville, B. C	4,180												
Triangle Island, B. C	680												
Prince Rupert, B. C	170												
Hamilton, Ber	151	29.96	30.13	+.02	63.1	+ 1.6	68.6	51.6	73	52	5.54	+1.10	0.0

SEISMOLOGICAL REPORTS FOR FEBRUARY, 1921.

550.34 (08)

W. J. HUMPHREYS, Professor in Charge.

Weather Bureau, Washington, D. C., April 2, 1921.

TABLE 1.—*Non-instrumental earthquake reports, February, 1921.*

Day.	Approximate time, Greenwich civil.	Station.	Approximate latitude.	Approximate longitude.	Intensity Rossi-Forel.	Number of shocks.	Duration.	Sounds.	Remarks.	Observer.
1921.	*H. m.*	COLORADO.	° ′	° ′			*Sec.*			
6	6 15	St. Elmo	38 45	106 20	5	2?	2 *ca.*	Loud	Observer awakened	S. L. Taber.
		do	38 45	106 20	3	2–3	2–3	Explosion	Felt by several	H. Vandervelde.
	6 25	Garfield	38 37	106 20	5	2	10	Loud	Felt by many	L. N. Felton.
	6 30	St. Elmo	38 45	106 20	5	3	3–4	do	Felt by everyone in St. Elmo and Romley.	D. Clark.
17	1 45	Garfield	38 37	106 20	3?	2	3 *ca.*	Rumbling	Felt by several. Another shock at 1:55	L. N. Felton.
17	13 05	do	38 37	106 20	3?	1	3 *ca.*	do	Felt by several	Do.
26	15 55	do	38 37	106 20	3	1	2 *ca.*	do	do	Do.
27	17 00	do	38 37	106 20	3	1	3	Faint	do	Do.
		ILLINOIS.								
27	22 16	Cairo	37 00	89 05	3	1	10	Rumbling	Felt by many	J. F. McGruder.
		OREGON.								
25	8 00	Cascadia	44 20	122 30	5	1		Loud	Felt by nearly everyone over area 6 by 12 miles.	G. M. Geisendorfer.