the month and at its close was nearly completed in the central and eastern portions of the belt.

The month was generally favorable for planting corn in the Southern States, and warmth was sufficient to cause satisfactory germination in most sections, although it was too cool the latter part of the month, particularly in the Southeastern States. The soil was wet and unfavorable for preparation of corn ground in the Central Valley States during much of the month, although fairly good progress was made in the Great Plains sections. Planting was well along at the close of the month as far north as central Kansas in the latter area, but this work was much delayed in central Valley districts. Conditions were more favorable for field work in the cotton States during the middle and latter parts of the month and cotton planting made fairly good progress. The nights were too cool, however, the latter part of the month in most sections for rapid germination, while excessive rains west of the Mississippi River were detrimental. Beneficial rains occurred in southern Georgia near the close of the month. In eastern districts the crop had advanced to a stage where it was ready to chop out on the coastal plain of South Carolina, and planting progressed during the last decade of the month to the extreme northwestern portion of the cotton-growing section of Texas.

Truck was seriously damaged in Florida by prolonged drought, and growth was slow in southern California on account of cool weather. Grass and meadows made satisfactory growth with favorable weather conditions in nearly all central and eastern localities, but moisture continued deficient in the far Southwest, while more rain was needed in the extreme Southeast and some central and northern areas.

CLIMATOLOGICAL TABLES.[1]

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, April, 1922.

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	66.9	+3.7	Tuskegee	92	15	Valley Head	32	22	4.14	−0.24	St. Bernard	8.14	Robertsdale	0.61
Arizona	54.8	−4.0	Parker	99	[2]22	Fort Valley	2	6	0.55	+0.02	Ryan Ranger Sta	2.49	9 stations	0.00
Arkansas	63.4	+2.2	Huttig	90	7	Dutton	26	1	5.50	+0.72	Spring Bank	12.81	Hardy	2.77
California	52.9	−4.1	Greenland Ranch	100	25	Fordyce Dam	−3	15	0.82	−0.97	Mesa Grande	4.95	12 stations	0.00
Colorado	40.8	−2.2	2 stations	82	[2]15	Silverton	−9	18	2.22	+0.30	Long Branch	5.81	Saguache	T.
Florida	73.2	+3.4	2 stations	98	[2]13	Wausau	38	5	0.89	−1.71	Tallahassee	4.41	4 stations	0.00
Georgia	66.8	+3.4	St. George	96	14	Blue Ridge	28	2	3.56	0.00	Dahlonega	7.62	Tifton	0.30
Hawaii	70.9	+0.9	Mahukona	89	30	Waimea	48	[2]4	5.08	−2.46	Honomu	23.49	3 stations	0.00
Idaho	39.7	−4.2	2 stations	79	[2]21	Stanley	−14	16	1.70	+0.28	Priest River Exp. Sta.	3.59	Felt	0.28
Illinois	53.9	+2.1	Sparta	85	6	2 stations	24	1	5.05	+1.64	Paris	9.93	Paw Paw	1.15
Indiana	54.3	+2.6	2 stations	88	[2]7	Huntingburg	23	2	6.08	+2.61	Whitestown	11.58	Hobart	3.13
Iowa	49.9	+1.2	Thurman	87	6	Boone	21	1	3.06	+0.20	Algona	6.70	Inwood	1.04
Kansas	54.9	+0.8	Medicine Lodge	87	21	Tribune	15	11	5.07	+2.62	Oswego	12.41	Ashland	0.92
Kentucky	59.5	+3.6	Williamsburg	88	14	Berea	25	2	4.24	+0.30	Middlesboro	7.13	Irvington	2.68
Louisiana	70.5	+3.5	Coushatta	91	13	Calhoun	37	1	4.34	−0.49	Coushatta	9.80	2 stations	1.59
Maryland-Delaware	54.0	+1.4	Hancock, Md	93	10	Oakland, Md	17	24	1.90	−1.44	Oakland, Md	3.56	Baltimore, Md	0.88
Michigan	43.0	+0.6	Kalamazoo	84	10	Humboldt	7	1	3.37	+1.07	Sack Bay	6.30	Iron River	1.50
Minnesota	43.0	+0.1	Beardsley	83	24	Warroad	7	1	1.89	−0.16	Grand Meadow	4.19	Pipestone	T.
Mississippi	67.7	+3.7	Okolona	91	7	Duck Hill	36	2	5.23	−0.23	Myrtle	10.60	Columbia	1.60
Missouri	57.3	+1.9	Caruthersville	91	16	Bethany	24	1	6.21	+2.42	Warsaw	14.34	Bethany	1.72
Montana	40.4	−3.9	Glasgow	83	22	Hebgen Dam	−10	15	1.84	+0.78	Adel	5.92	Knobles Ranch	0.51
Nebraska	49.0	+0.2	Syracuse	87	6	Kimball	15	11	2.70	+0.22	Hay Springs	6.26	Santee	0.34
Nevada	43.8	−5.5	2 stations	92	23	Owyhee	6	11	0.74	−0.01	Arthur	3.30	Mina	0.00
New England	43.6	+1.0	2 stations	85	10	Somerset, Vt	10	2	2.87	−0.33	Somerset, Vt	5.67	Rutland, Mass	1.13
New Jersey	51.0	+1.5	Paterson	89	10	2 stations	18	[2]21	2.55	−1.08	Hightstown	4.12	Woodcliff Lake	1.57
New Mexico	50.0	−0.8	Tularosa	89	25	Chama	4	18	1.30	+0.05	Texico (near)	6.63	3 stations	0.00
New York	45.3	+1.0	Mount Vernon	89	10	Indian Lake	3	4	3.12	+0.32	Wanakena	7.02	Lauterbrunnen	0.44
North Carolina	60.4	+2.9	2 stations	96	14	Parker	23	23	3.70	+0.13	Monroe	7.41	Manteo	1.54
North Dakota	42.3	+0.6	Mandon	89	23	3 stations	−2	[2]18	0.92	−0.46	Wahpeton	3.15	Pembina	T.
Ohio	52.6	+2.6	4 stations	86	7	2 stations	20	22	4.52	+1.32	Eaton	7.96	Madison	1.73
Oklahoma	60.8	+0.8	Beaver	95	15	Goodwell	15	1	6.50	+3.52	Antlers	13.00	Goodwell	1.15
Oregon	44.5	−3.2	The Dalles	83	23	Crater Lake	−3	17	2.36	−0.11	Larch Mountain	10.75	Madras	0.18
Pennsylvania	50.1	+1.4	Gettysburg	91	10	West Bingham	11	22	3.17	−0.50	Herrs Island Dam	6.10	Lancaster	1.28
South Carolina	64.5	+2.1	Garnett	95	14	Santuck	33	2	5.11	+2.14	Landrum	8.30	Garnett	0.82
South Dakota	46.0	+0.8	4 stations	81	[2]4	Deadwood	9	17	1.49	−0.69	Hermosa	4.34	Marion	T.
Tennessee	61.8	+3.6	Moscow	92	14	Mountain City	23	23	5.44	+0.84	New River	8.61	Covington	3.14
Texas	67.6	+1.5	San Benito	107	10	Clint	23	19	6.26	+3.04	Weatherford	18.11	Mercedes	0.00
Utah	41.5	−5.8	St. George	86	[2]22	4 stations	0	[2]9	1.74	+0.53	Silver Lake	6.22	Kelton	0.12
Virginia	57.0	+2.5	2 stations	93	[2]10	Burkes Garden	19	23	2.22	−1.19	Mendota	5.71	Manassas	0.82
Washington	45.4	−2.9	Granger	86	21	Lake Keechelus	9	12	2.21	+0.09	Cedar Lake	10.70	Wapato	0.00
West Virginia	54.4	+2.9	Moorefield	91	10	Cheat Bridge	15	24	3.15	−0.37	Pickens	6.76	Upper Tract	0.50
Wisconsin	43.3	+0.1	Racine	76	7	Long Lake	7	1	3.51	+1.05	Marshfield	5.62	Danbury	1.17
Wyoming	36.4	−3.6	2 stations	76	[2]4	Lake Yellowstone	−19	17	2.14	+0.51	Dome Lake	6.36	2 stations	0.16

[1] For description of tables and charts, see REVIEW,

[2] Other dates also.

TABLE I.—*Climatological data for Weather Bureau stations, April, 1922.*

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 inch, 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.
New England.							45.4	+1.8										70	2.83	−0.2										5.5		
Eastport	76	67	85	29.86	29.95	+0.02	40.5	+2.2	67	8	47	27	1	34	30	36	32	76	1.76	−1.2	12	8,715	nw.	43	e.	12	2	10	18	7.7	1.0	0.0
Greenville, Me.	1,070	6	.....	28.79	29.97	.....	39.4	.....	64	25	48	18	23	30	34	.....	.....	.....	2.99	.....	13	.....	.....	.....	.....	.....	6	4	20	.....	7.6	.....
Portland, Me.	103	82	117	29.88	30.01	+.05	44.6	+1.6	72	26	53	28	2	36	31	39	32	66	5.17	+2.1	12	7,423	nw.	38	nw.	27	13	5	12	5.1	14.1	0.0
Concord	288	70	79	29.68	30.00	+.01	45.2	+1.4	83	10	56	27	22	35	42	.....	.....	.....	2.11	−0.7	10	4,939	nw.	31	nw.	27	12	10	8	4.5	4.9	0.0
Burlington	404	11	48	29.56	30.01	+.02	42.8	+2.1	77	10	52	19	3	34	33	.....	.....	.....	3.38	+1.5	11	8,588	s.	56	s.	7	6	11	13	6.3	8.9	0.0
Northfield	876	12	60	29.06	30.03	+.04	40.4	+0.2	76	10	52	14	3	29	40	37	32	74	2.88	+0.8	14	5,873	s.	39	sw.	11	6	13	11	6.3	16.6	0.0
Boston	125	115	188	29.87	30.01	+.04	48.7	+2.3	85	10	58	29	2	40	30	43	37	66	2.48	−1.1	8	6,352	w.	35	e.	1	13	5	12	5.1	3.3	0.0
Nantucket	12	14	90	29.99	30.00	+.03	45.5	+1.3	67	26	51	31	2	40	21	42	38	81	2.90	+0.3	12	12,175	sw.	48	e.	1	12	8	10	5.4	1.8	0.0
Block Island	26	11	46	29.98	30.01	+.03	45.6	+1.8	70	10	52	30	2	39	30	41	38	82	2.79	−0.8	11	12,697	sw.	52	w.	20	13	4	13	5.1	T.	0.0
Providence	160	215	251	29.84	30.02	+.04	48.3	+1.7	8[illegible]	10	58	28	2	39	36	42	34	62	2.18	−1.6	9	10,012	nw.	53	w.	21	14	3	13	5.0	0.4	0.0
Hartford	159	122	140	29.85	30.03	+.04	48.8	+2.1	84	10	59	30	2	39	37	42	35	65	2.46	−1.1	12	6,215	nw.	36	sw.	20	13	5	12	5.4	1.7	0.0
New Haven	106	74	153	29.93	30.04	+.05	49.2	+2.8	8[illegible]	10	58	31	22	40	39	42	34	60	3.06	−0.5	10	7,379	n.	38	nw.	27	14	5	11	4.9	T.	0.0
Middle Atlantic States.							53.1	+2.2										65	1.92	−1.1										5.4		
Albany	97	102	115	29.94	30.04	+.04	48.0	+2.2	86	10	58	27	3	38	42	42	36	68	2.26	−0.1	9	5,853	s.	40	se.	17	15	5	10	4.6	T.	0.0
Binghamton	871	10	84	29.10	30.05	+.03	46.8	+2.4	82	10	57	25	22	37	34	.....	.....	.....	2.54	+0.3	14	5,015	nw.	31	w.	20	7	7	16	6.3	T.	0.0
New York	314	414	454	29.71	30.05	+.05	51.0	+2.9	82	10	60	31	21	42	24	44	36	62	1.96	−1.3	8	12,127	nw.	72	nw.	20	9	12	9	5.4	0.0	0.0
Harrisburg	374	94	104	29.68	30.09	+.07	52.6	+1.9	86	10	61	31	22	44	28	45	36	57	1.43	−1.1	12	5,640	w.	44	sw.	11	11	6	13	5.9	T.	0.0
Philadelphia	117	123	190	29.96	30.08	+.07	54.0	+3.2	87	10	63	34	22	45	25	46	37	56	1.52	−1.4	12	7,464	nw.	36	sw.	11	6	14	10	6.0	0.0	0.0
Reading	325	81	98	29.72	30.08	.....	52.4	.....	85	10	61	31	22	43	30	46	39	63	1.88	−1.3	12	3,387	nw.	36	nw.	20	10	9	11	5.2	0.0	0.0
Scranton	805	111	119	29.21	30.08	+.07	48.6	+1.5	82	10	58	26	22	39	36	43	37	68	3.44	+0.8	14	6,038	nw.	48	sw.	11	8	12	10	6.1	0.1	0.0
Atlantic City	52	37	48	30.02	30.08	+.08	49.4	+1.8	85	10	56	30	3	42	31	45	40	73	1.75	−1.2	10	13,263	nw.	56	s.	11	13	9	8	4.8	0.0	0.0
Cape May	18	13	49	30.09	30.01	+.02	51.3	+2.9	83	10	58	35	3	44	32	45	41	74	2.41	−0.6	12	7,335	nw.	41	sw.	11	13	8	9	4.9	0.0	0.0
Sandy Hook	22	10	55	30.03	30.05	.....	49.6	.....	81	10	57	35	21	42	34	43	37	67	2.08	.....	9	11,360	w.	56	sw.	11	11	12	7	5.0	0.0	0.0
Trenton	190	159	183	29.86	30.06	.....	51.6	.....	83	10	61	30	22	42	29	47	43	73	1.69	−1.6	11	9,055	w.	52	w.	20	9	11	10	5.6	0.0	0.0
Baltimore	123	100	113	29.96	30.09	+.08	55.8	+2.8	89	10	64	34	22	47	35	48	39	57	0.88	−2.4	9	4,635	sw.	31	sw.	11	7	11	12	6.0	0.0	0.0
Washington	112	62	85	29.96	30.09	+.07	55.6	+2.5	89	10	65	33	22	46	43	48	39	55	1.05	−2.2	9	5,556	nw.	35	nw.	1	8	10	12	5.8	0.0	0.0
Lynchburg	681	153	188	29.36	30.10	+.08	57.8	+0.5	89	10	69	32	24	46	41	50	44	66	1.53	−1.6	12	6,202	sw.	38	sw.	11	12	12	6	4.5	0.0	0.0
Norfolk	91	170	205	30.01	30.11	+.10	59.7	+3.7	87	10	68	39	25	51	35	52	46	66	1.88	−1.9	7	10,141	ne.	50	sw.	11	11	10	9	5.2	0.0	0.0
Richmond	144	11	52	29.95	30.10	+.08	58.6	+1.4	88	10	69	36	24	48	39	51	44	64	2.01	−1.4	10	6,918	s.	46	sw.	11	11	10	9	4.9	0.0	0.0
Wytheville	2,304	49	56	27.73	30.11	+.08	53.8	+1.8	81	10	64	29	23	44	36	47	42	69	2.51	−1.2	11	5,547	w.	36	sw.	11	10	12	8	4.8	0.0	0.0
South Atlantic States.							64.3	+2.8										73	3.16	−0.2										4.8		
Asheville	2,255	70	84	27.76	30.11	+.08	57.1	+3.2	85	14	68	30	2	47	37	49	44	68	3.37	−0.7	11	6,860	nw.	42	e.	28	10	12	8	4.7	0.0	0.0
Charlotte	779	55	62	29.27	30.11	+.08	61.0	+1.8	86	13	70	38	2	52	31	54	48	70	6.59	+3.2	10	4,572	sw.	23	sw.	11	11	6	13	5.5	0.0	0.0
Hatteras	11	11	50	30.09	30.10	+.09	60.8	+2.8	84	15	67	41	25	55	24	56	52	76	2.27	−2.1	6	12,458	sw.	48	sw.	11	11	10	9	5.1	0.0	0.0
Manteo	12	5	42	.....	.....	.....	61.4	.....	90	14	71	30	25	52	30	.....	.....	.....	1.54	.....	5	.....	ne.	.....	.....	.....	18	5	7	.....	0.0	0.0
Raleigh	376	103	110	29.70	30.10	+.07	61.0	+2.0	90	14	71	39	2	51	34	55	50	73	2.57	−0.9	9	7,244	sw.	44	sw.	11	11	9	10	4.9	0.0	0.0
Wilmington	78	81	91	30.04	30.12	+.09	63.7	+3.3	91	14	73	41	24	55	27	58	54	76	3.26	+0.4	11	7,169	sw.	35	sw.	11	13	6	11	5.0	0.0	0.0
Charleston	48	11	92	30.07	30.12	+.09	68.2	+3.7	89	15	76	45	29	60	31	60	57	74	1.50	−1.5	6	8,844	sw.	33	ne.	28	13	11	6	4.1	0.0	0.0
Columbia, S. C.	351	41	57	29.74	30.13	+.10	64.4	+1.6	90	14	75	41	29	54	31	56	52	70	6.53	+3.7	11	5,520	sw.	37	sw.	11	12	6	12	5.5	0.0	0.0
Due West	711	10	55	29.36	30.13	.....	62.6	.....	87	14	73	39	2	52	33	.....	.....	.....	6.05	.....	8	7,002	sw.	35	sw.	14	8	12	10	5.7	0.0	0.0
Greenville, S. C.	1,039	113	122	29.00	30.10	.....	61.7	.....	85	14	71	40	28	52	31	54	48	67	4.97	.....	10	7,671	sw.	39	sw.	11	10	11	9	5.2	0.0	0.0
Augusta	180	62	77	29.91	30.10	+.07	66.1	+1.9	90	14	77	44	29	56	35	59	55	73	3.03	−0.5	7	4,384	s.	24	n.	5	9	10	11	5.7	0.0	0.0
Savannah	65	150	194	30.05	30.12	+.09	69.0	+4.3	90	14	78	44	29	60	31	62	59	79	1.07	−1.9	4	9,156	s.	35	sw.	11	17	7	6	3.7	0.0	0.0
Jacksonville	43	209	245	30.07	30.12	+.08	71.4	+3.8	90	14	79	51	30	64	23	63	59	72	1.39	−1.3	3	9,236	s.	38	sw.	11	15	11	4	3.8	0.0	0.0
Florida Peninsula.							76.6	+3.0										72	0.26	−1.6										3.8		
Key West	22	10	64	30.05	30.07	+.05	78.8	+3.1	86	29	83	71	2	74	13	70	66	70	0.08	−1.2	4	8,346	se.	26	se.	8	20	8	2	3.0	0.0	0.0
Miami	25	71	79	30.09	30.12	.....	75.8	+1.6	84	12	80	62	2	72	16	68	65	71	0.54	−2.0	3	6,837	se.	25	e.	24	13	11	6	4.7	0.0	0.0
Sand Key	23	39	72	30.06	30.09	+.07	76.4	.....	82	29	78	71	2	75	6	70	67	73	0.01	.....	1	11,129	se.	37	e.	24	19	9	2	2.9	0.0	0.0
Tampa	35	79	92	30.07	30.10	+.04	75.2	+4.2	90	13	84	57	2	66	25	66	62	72	0.16	−1.7	2	5,166	sw.	22	e.	25	11	16	3	4.6	0.0	0.0
East Gulf States.							67.9	+3.3										74	3.32	−0.7										5.5		
Atlanta	1,174	190	216	28.88	30.11	+.08	62.8	+1.8	85	14	7[illegible]	41	1	53	29	56	51	70	4.34	+0.7	7	8,156	s.	42	nw.	1	11	7	12	5.6	0.0	0.0
Macon	370	78	87	29.72	30.11	+.08	66.5	+3.4	90	14	78	42	21	55	32	58	52	66	1.71	−1.7	5	5,070	s.	23	sw.	14	13	5	12	5.2	0.0	0.0
Thomasville	273	49	58	29.82	30.11	+.08	69.8	+3.1	89	16	80	48	21	59	32	60	56	72	0.64	−3.0	4	3,835	sw.	19	sw.	14	7	16	7	5.5	0.0	0.0
Pensacola	56	149	185	30.03	30.09	+.07	69.2	+2.5	79	18	74	49	1	64	26	65	63	84	0.39	−2.8	4	11,318	s.	54	s.	5	8	12	10	5.7	0.0	0.0
Anniston	741	9	57	29.32	30.11	+.08	64.6	+4.2	88	14	76	36	2	53	39	.....	.....	.....	6.09	+2.5	8	4,360	s.	33	w.	11	11	13	6	4.9	0.0	0.0
Birmingham	700	11	48	29.34	30.10	+.08	66.2	+2.7	85	6	76	39	2	56	36	57	52	68	6.64	+3.0	9	5,956	s.	34	s.	11	8	13	9	5.8	0.0	0.0
Mobile	57	125	161	30.02	30.08	+.06	70.2	+4.2	84	14	77	49	1	63	28	64	61	80	0.92	−3.4	6	8,490	s.	40	nw.	11	5	15	10	5.9	0.0	0.0
Montgomery	223	100	112	29.86	30.11	+.08	68.4	+3.2	89	14	78	43	2	59	31	61	57	73	2.89	−1.4	5	5,197	s.	32	sw.	11	11	11	8	4.8	0.0	0.0
Corinth	469	6	.....	.....	.....	.....	65.6	.....	88	6	76	38	2	55	38	.....	.....	.....	5.27	.....	11	.....	s.	.....	.....	.....	5	17	8	.....	0.0	0.0
Meridian	375	85	93	29.67	30.06	+.04	67.4	+3.3	86	16	78	39	2	57	35	60	56	73	4.20	−0.8	10	4,868	s.	34	w.	10	5	16	9	5.8	0.0	0.0
Vicksburg	247	65	73	29.78	30.06	+.06	68.2	+2.6	85	16	76	45	1	60	27	62	59	78	4.92	−0.2	12	5,974	s.	34	w.	11	6	15	9	5.9	0.0	0.0
New Orleans	53	76	84	30.00	30.05	+.05	73.3	+5.4	87	13	80	54	2	66	20	66	62	75	3.81	−1.1	7	5,840	s.	24	s.	8	9	13	8	5.4	0.0	0.0
West Gulf States.							67.7	+1.9										75	6.08	+2.5										6.3		
Shreveport	249	77	93	29.74	30.01	+.06	67.8	+2.0	86	9	77	46	1	58	26	62	59	78	6.97	+2.4	10	6,234	se.	44	se.	8	10	11	9	5.1	0.0	0.0
Bentonville	1,303	11	44	.....	.....	.....	60.2	+3.3	84	6	71	32	1	49	36	.....	.....	.....	3.89	0.0	12	.....	.....	.....	.....	.....	10	7	13	.....	0.0	0.0
Fort Smith	457	79	94	29.48	29.96	.00	63.6	+1.9	85	6	73	38	1	54	33	57	52	71	4.30	+0.4	12	7,603	e.	60	sw.	10	10	3	17	6.0	0.0	0.0
Little Rock	357	136	144	29.62	29.99	+.01	64.2	+1.5	86	6	74	40	1	55	31	57	52	69	3.55	−1.0	10	7,992	s.	43	sw.	11	10	8	12	5.7	0.0	0.0
Brownsville	57	4	26	.....	.....	.....	78.4	.....	96	10	87	53	19	70	28	.....	.....	.....	1.52	.....	6	.....	se.	.....	.....	.....	.....	.....	.....	.....	0.0	0.0
Corpus Christi	20	11	73	29.91	29.93	−.02	74.6	+3.7	92	10	80	56	19	70	21	69	67	80	2.96	+1.2	5	13,277	se.	48	s.	8	4	12	14	7.1	0.0	0.0
Dallas	512	109	117	29.40	29.95	.....	65.8	.....	84	16	74	43	19	57	30	.....	.....	.....	13.04	.....	10	7,634	se.	42	s.	8	5	9	16	6.6	0.0	0.0
Fort Worth	670	106	114	29.22	29.92	−.02	65.3	0.0	85	16	74	41	19	57	31	59	54	72	17.64	+15.0	10	7,202	s.	46	se.	24	5	8	17	6.8	0.0	0.0
Galveston	54	106	114	29.94	30.00	+.03	71.6	+2.9	82	28	76	58	19	67	17	67	65	82	1.66	−1.5	6	9,994	se.	35	se.	4	4	16	10	6.0	0.0	0.0
Groesbeck	461	11	56	29.48	29.96	.....	67.2	.....	86	13	76	46	1	58	29	.....	.....	.....	8.24	.....	11	9,302	s.	65	w.	24	5	5	20	6.9	0.0	0.0
Houston	138	111	121	29.82	29.97	.....	71.4	+1.8	87	5	79	52	1	64	24	.....	.....	.....	5.22	.....	7	7,984	se.	39	se.	8	4	14	12	6.2	0.0	0.0
Palestine	510	64	72	29.45	29.98	+.02	67.5	+1.6	86	9	77	46	1	58	28	60	57	75	7.43	+3.4	11	6,333	s.	36	s.	8	6	5	19	6.6	0.0	0.0
Port Arthur	34	58	66	29.95	29.91	.....	71.3	.....	82	17	77	52	1	65	21	66	64	81	1.24	.....	7	8,967	se.	38	s.	4	4	18	8	6.0	0.0	0.0
San Antonio	701	119	132	29.20	29.92	−.01	70.2	+1.2	90	17	79	50	18	61	34	62	57	70	5.46	+2.5	8	7,367	se.	44	nw.	26	7	7	16	6.5	0.0	0.0
Taylor	582	55	63	29.35	29.96	+.01	68.0	+0.5	88	9	78	45	19	58	34	.....	.....	.....	6.96	+3.0	12	7,838	se.	33	se.	8	3	7	20	7.5	0.0	0.0

TABLE I.—*Climatological data for Weather Bureau stations, April, 1922*—Continued.

Districts and stations.	Elevation of instruments. Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Pressure. Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Temperature of the air. 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.	Precipitation. Total.	Departure from normal.	Days with 0.01 inch, or more.	Wind. Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	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.							57.3	+2.8										68	4.55	+1.0										6.0		
Chattanooga	762	189	213	29.28	30.10	+.07	62.7	+2.7	85	14	72	39	2	53	31	54	49	67	4.35	0.0	15	6,740	n.	44	sw.	11	7	11	12	6.0	0.0	0.0
Knoxville	996	102	111	29.04	30.09	+.06	61.0	+3.6	85	14	71	36	2	52	32	53	47	65	4.61	0.0	15	5,787	sw.	42	sw.	11	5	9	16	6.8	0.0	0.0
Memphis	399	76	97	29.64	30.07	+.07	64.0	+4.0	83	16	72	42	1	56	27	57	51	65	3.21	−1.6	10	7,272	s.	56	sw.	11	9	6	15	6.3	0.0	0.0
Nashville	546	168	191	29.49	30.08	+.07	61.6	+2.5	84	14	71	38	1	52	29	56	51	71	4.53	+0.2	11	8,409	s.	54	nw.	14	4	13	13	6.5	0.0	0.0
Lexington	989	193	230	29.02	30.09	+.07	57.0	+3.3	81	8	66	34	1	48	30	.....	.....	.....	4.46	+1.1	9	12,105	sw.	58	s.	11	12	5	13	5.4	0.0	0.0
Louisville	525	219	255	29.49	30.08	+.07	59.3	+3.1	84	7	69	35	1	49	31	52	48	70	6.06	+2.0	8	9,967	s.	54	s.	17	11	9	10	5.3	0.0	0.0
Evansville	431	139	175	29.59	30.06	+.06	59.2	+2.8	84	8	69	36	1	49	32	52	45	64	4.07	+0.6	10	9,760	sw.	55	w.	11	5	17	8	5.9	0.0	0.0
Indianapolis	822	194	230	29.16	30.05	+.05	54.2	+1.8	78	7	64	32	1	44	31	48	43	70	8.55	+5.1	13	9,770	se.	54	w.	19	10	7	13	5.9	0.0	0.0
Royal Center	736	11	55	29.24	30.05	.....	50.4	.....	76	10	60	28	1	41	32	.....	.....	.....	4.71	.....	15	8,482	se.	50	w.	19	10	4	16	6.2	0.1	0.0
Terre Haute	575	96	129	29.40	30.02	.....	55.8	.....	77	9	65	32	1	46	32	51	48	80	10.57	.....	12	8,216	s.	50	s.	8	9	11	10	5.9	0.0	0.0
Cincinnati	628	11	51	29.40	30.08	+.07	55.6	+3.3	83	7	66	33	20	45	32	.....	46	72	4.32	+1.4	11	6,600	ne.	46	sw.	11	8	15	7	5.3	T.	0.0
Columbus	824	179	222	29.20	30.08	+.06	53.1	+2.1	79	10	63	30	22	44	31	47	42	69	3.05	+0.2	8	9,312	nw.	53	nw.	17	9	12	9	5.3	T.	0.0
Dayton	899	181	216	29.08	30.04	.....	54.2	+2.5	79	10	64	33	1	44	32	48	43	72	5.38	+2.5	11	8,907	ne.	52	w.	11	10	14	6	5.1	0.0	0.0
Elkins	1,947	59	67	28.04	30.10	+.07	51.8	+3.1	81	10	64	24	24	40	43	44	39	66	3.77	+0.5	13	4,963	w.	33	nw.	14	4	14	12	6.6	T.	0.0
Parkersburg	638	77	84	29.44	30.10	+.07	56.2	+3.2	83	10	67	32	22	46	36	48	41	62	3.81	+0.9	10	5,030	n.	35	sw.	11	8	8	14	6.3	0.0	0.0
Pittsburgh	842	353	410	29.17	30.09	+.07	52.6	+1.4	80	10	62	29	22	43	31	45	39	64	3.56	+0.7	15	9,006	nw.	47	nw.	20	5	11	14	6.6	3.0	0.0
Lower Lake Region.							47.1	+1.9										73	2.72	+0.4										5.8		
Buffalo	767	247	280	29.22	30.06	+.05	44.8	+2.5	72	7	53	25	21	37	28	42	39	83	1.56	−0.9	12	13,784	sw.	80	w.	20	6	9	15	6.6	T.	0.0
Canton	448	10	61	29.51	29.99	.....	43.6	+1.1	72	10	53	20	21	35	27	.....	.....	.....	3.46	+1.2	13	8,361	w.	48	w.	18	15	5	10	5.1	14.2	0.0
Oswego	335	76	91	.....	30.04	+.03	44.2	+1.0	72	10	51	26	20	37	27	.....	.....	.....	3.63	+1.4	15	8,312	w.	40	nw.	20	9	9	12	....	T.	0.0
Rochester	523	86	102	29.48	30.07	+.06	48.8	+1.9	75	9	56	26	21	38	28	40	33	64	2.40	0.0	13	7,397	w.	45	w.	20	9	9	12	5.8	0.4	0.0
Syracuse	597	97	113	29.40	30.05	+.04	45.9	+1.5	79	10	54	25	21	38	29	.....	.....	.....	2.47	+0.2	13	9,591	nw.	46	w.	20	6	8	16	6.3	7.7	0.0
Erie	714	130	166	29.29	30.07	+.05	47.7	+3.0	78	9	56	29	22	40	32	43	38	71	2.45	0.0	13	11,598	w.	65	w.	19	8	11	11	5.6	0.1	0.0
Cleveland	762	190	201	29.25	30.08	+.06	48.6	+2.6	79	7	55	30	22	41	28	43	39	72	2.10	−0.2	15	10,270	ne.	66	w.	20	8	12	10	5.7	0.2	0.0
Sandusky	629	62	103	29.38	30.07	+.05	49.0	+1.7	80	7	57	32	20	41	30	.....	.....	.....	3.02	+0.5	13	10,162	sw.	56	w.	11	8	11	11	5.5	0.8	0.0
Toledo	628	208	243	29.38	30.07	+.06	49.0	+1.4	80	7	57	30	20	41	27	44	40	75	3.33	+1.0	14	11,408	sw.	68	sw.	17	10	10	10	5.4	2.1	0.0
Fort Wayne	856	113	124	29.13	30.06	.....	50.8	+1.5	78	10	60	29	1	42	28	45	40	70	3.99	.....	14	7,642	sw.	56	s.	17	5	9	16	6.7	0.1	0.0
Detroit	730	218	245	29.26	30.06	+.04	48.1	+2.6	79	10	57	29	1	39	31	43	38	72	2.74	+0.4	11	8,934	sw.	56	w.	19	9	10	11	5.4	0.8	0.0
Upper Lake Region.							42.3	+1.5										75	3.33	+1.0										6.0		
Alpena	609	13	92	29.37	30.04	+.02	40.8	+2.8	71	7	48	22	21	33	33	37	32	76	2.78	+0.6	10	8,757	nw.	54	nw.	20	9	10	11	6.0	2.5	0.0
Escanaba	612	54	60	29.36	30.05	+.03	38.1	+0.9	65	7	45	23	1	32	29	34	31	80	4.23	+2.2	12	6,967	s.	42	ne.	11	8	9	13	5.9	4.1	0.0
Grand Haven	632	54	89	29.34	30.04	+.03	44.6	+0.6	71	16	5.	28	27	36	33	40	36	76	2.02	−0.4	9	8,771	s.	63	w.	19	9	11	10	5.5	0.1	0.0
Grand Rapids	707	70	87	29.27	30.05	+.03	48.0	+1.8	74	7	58	29	1	38	33	42	36	67	4.50	+2.0	9	5,031	w.	34	w.	19	9	7	14	6.0	T.	0.0
Houghton	684	62	99	29.30	30.04	+.02	38.1	+1.2	66	24	48	22	20	31	34	.....	.....	.....	2.62	+0.6	11	7,211	e.	50	ne.	9	8	3	19	6.8	6.7	0.0
Lansing	878	11	62	29.08	30.04	.....	46.8	+1.2	80	10	58	25	1	36	34	42	37	73	3.75	+1.2	9	5,365	w.	32	sw.	19	9	10	11	5.7	T.	0.0
Ludington	657	60	66	29.33	30.04	.....	42.2	.....	70	16	49	27	28	35	33	39	36	81	2.39	.....	14	7,856	s.	42	s.	9	12	6	12	5.2	0.5	0.0
Marquette	734	77	111	29.25	30.07	+.05	37.9	+0.4	69	24	44	24	21	31	29	34	31	77	3.79	+1.8	11	6,504	nw.	38	nw.	19	8	4	18	6.9	15.9	0.0
Port Huron	638	70	120	29.34	30.04	+.02	45.0	+2.8	76	10	54	28	21	36	35	40	36	74	3.39	+1.3	10	9,144	ne.	50	w.	19	9	14	7	4.6	0.2	0.0
Saginaw	641	69	77	29.34	30.04	.....	45.7	.....	74	7	56	28	1	36	35	41	36	70	2.06	−0.6	9	6,946	nw.	38	sw.	19	8	10	12	5.9	1.2	0.0
Sault Sainte Marie	614	11	52	29.34	30.05	+.02	37.2	+1.5	6.	24	44	19	20	30	30	35	31	79	3.90	+1.8	14	6,470	nw.	35	n.	19	7	8	15	6.6	3.8	0.0
Chicago	823	140	310	29.15	30.05	+.05	48.7	+1.0	74	9	56	30	1	41	28	43	39	72	3.70	+0.8	13	9,137	n.	54	w.	19	10	6	14	6.0	T.	0.0
Green Bay	617	109	144	29.35	30.02	+.01	42.9	+2.2	71	7	51	23	20	35	29	38	34	76	4.62	+2.2	15	8,705	s.	54	nw.	19	6	11	13	6.8	0.6	0.0
Milwaukee	681	125	139	29.29	30.03	+.04	44.6	+2.8	75	7	52	28	1	37	32	40	35	73	2.38	−0.3	13	7,845	ne.	40	sw.	9	10	6	14	6.0	T.	0.0
Duluth	1,133	11	47	28.80	30.05	+.04	37.2	+0.2	58	28	44	21	20	31	25	34	31	82	2.83	+0.7	13	8,889	ne.	52	ne.	9	6	10	14	6.7	9.2	0.0
North Dakota.							43.1	+2.6										71	1.10	−0.8										6.5		
Moorhead	940	50	58	29.00	30.03	+.04	43.1	+1.7	74	23	52	23	19	35	33	38	33	73	1.85	−0.5	11	6,104	n.	28	sw.	23	4	11	15	7.0	2.6	0.0
Bismarck	1,674	8	57	28.2.	30.03	+.06	44.8	+2.7	75	22	56	17	19	34	38	38	32	69	0.68	−1.2	6	7,144	e.	55	se.	22	9	9	12	5.9	0.3	0.0
Devils Lake	1,482	11	44	28.42	30.02	+.0.	41.8	+3.6	72	22	51	18	19	32	34	36	31	72	0.48	−1.6	7	7,558	se	36	n.	18	11	6	13	5.6	0.6	0.0
Ellendale	1,457	10	56	28.44	30.0.	.....	43.6	.....	76	23	54	21	19	34	34	.....	.....	.....	1.63	.....	10	9,808	ne.	48	nw.	19	5	9	16	6.8	0.4	0.0
Grand Forks	845	12	89	.....	.....	.....	42.0	.....	78	25	5.	22	19	32	37	38	.....	.....	0.77	.....	4	.....	se.	.....	.....	.....	13	6	11	....	0.8	0.0
Williston	1,878	41	48	27.98	29.98	+.02	42.8	+2.3	79	22	5.	19	19	33	36	37	31	69	1.37	+0.1	12	6,096	se.	40	nw.	18	1	11	18	7.6	4.0	0.0
Upper Mississippi Valley.							51.5	+1.0										72	3.56	+0.6										6.1		
Minneapolis	918	102	208	29.01	30.00	.....	45.6	.....	69	30	54	28	19	37	29	.....	.....	.....	1.35	−1.1	11	7,940	se.	44	nw.	19	2	12	16	7.6	1.5	0.0
St. Paul	807	236	261	29.08	30.00	+.01	45.2	−0.4	67	30	54	27	19	36	27	.....	.....	.....	1.55	−0.8	11	9,168	se.	52	sw.	18	4	13	13	6.7	4.5	0.0
La Crosse	714	11	48	29.21	29.99	+.01	46.9	−0.4	70	30	56	27	1	38	31	.....	.....	.....	3.86	+1.6	13	4,061	n.	28	nw.	19	5	8	17	7.2	1.2	0.0
Madison	974	70	78	28.98	30.04	+.05	45.8	+1.3	70	16	54	28	1	38	27	42	38	77	3.39	+1.0	14	7,433	s.	48	sw.	9	5	9	16	7.1	T.	0.0
Wausau	1,247	4	....	28.67	30.0.	.....	42.0	.....	68	30	51	17	20	33	29	.....	.....	.....	3.71	.....	12	.....	nw.	.....	.....	.....	10	3	17	6.2	10.7	0.0
Charles City	1,015	10	49	28.92	30.01	+.0.	46.0	−0.3	70	6	56	27	1	36	35	42	37	76	3.05	+0.2	10	5,638	s.	35	nw.	19	4	12	14	6.6	2.0	0.0
Davenport	606	71	79	29.35	30.01	+.0.	50.9	+0.7	78	6	60	34	1	42	30	46	40	70	2.86	0.0	10	6,444	s.	47	sw.	9	9	8	13	6.1	T.	0.0
Des Moines	861	84	97	29.07	29.98	+.01	50.8	+0.2	8.	6	60	31	1	41	35	45	39	67	2.84	−0.1	9	6,155	e.	31	sw.	18	8	9	13	6.1	0.3	0.0
Dubuque	698	81	96	29.28	30.04	+.03	48.8	−0.1	7.	6	58	30	1	40	30	43	38	70	2.89	0.0	15	5,231	ne.	38	nw.	19	5	12	13	6.7	T.	0.0
Keokuk	614	64	78	29.33	30.01	+.03	53.8	+1.8	81	6	65	33	1	45	31	48	42	69	2.97	−0.4	11	6,165	s.	36	nw.	19	10	5	15	5.8	0.0	0.0
Cairo	356	87	93	29.64	30.02	+.04	60.8	+2.5	81	6	69	41	1	53	30	54	48	65	3.35	−0.2	8	8,503	s.	46	sw.	11	8	5	17	6.5	0.0	0.0
Peoria	609	11	45	29.56	30.05	+.04	52.5	+1.6	77	6	6.	30	20	42	34	47	43	77	3.62	+0.3	15	5,763	s.	33	nw.	19	14	6	10	4.6	0.0	0.0
Springfield, Ill	644	10	91	29.33	30.01	+.03	54.6	+2.6	81	9	64	34	1	45	36	49	45	75	5.20	+1.9	12	6,707	se.	34	sw.	8	12	3	15	5.7	0.0	0.0
Hannibal	554	74	109	29.42	29.99	+.01	55.1	+1.5	83	6	64	33	1	46	30	.....	.....	.....	5.45	+2.2	13	7,436	sw.	40	s.	16	11	5	14	5.6	0.0	0.0
St. Louis	567	265	30.	29.39	30.00	+.02	58.2	+2.4	82	6	68	40	28	49	38	52	48	74	7.40	+3.9	11	10,935	s.	50	sw.	11	13	9	8	3.2	0.0	0.0
Missouri Valley.							52.6	+2.0										69	3.82	+0.9										5.7		
Columbia, Mo	781	11	84	29.14	29.98	.00	56.0	+1.7	87	6	66	32	18	46	40	.....	.....	.....	9.93	+6.2	13	6,998	se.	40	w.	11	11	5	14	5.4	0.0	0.0
Kansas City	963	161	181	28.92	29.96	.00	55.8	+1.5	83	6	65	33	1	47	33	49	44	68	4.06	+0.8	13	8,845	ne.	60	sw.	8	12	7	11	5.1	0.0	0.0
St. Joseph	967	11	49	28.91	29.95	.....	55.2	.....	83	6	65	32	1	46	37	48	42	68	2.54	.....	9	7,298	se.	60	nw.	8	12	8	10	5.2	T.	0.0
Springfield, Mo	1,324	98	104	28.57	29.98	+.01	57.6	+1.9	85	6	67	32	1	48	36	51	46	70	4.94	+1.1	11	9,374	se.	49	n.	14	12	7	11	4.9	0.0	0.0
Iola	984	11	50	28.89	29.93	−.02	57.2	+3.0	80	6	67	34	18	48	35	.....	.....	.....	9.26	+6.5	13	6,350	s.	35	nw.	17	8	7	15	6.2	0.0	0.0
Topeka	987	92	107	.....	.....	.....	55.8	+2.1	82	6	66	33	1	46	37	.....	.....	.....	5.23	+2.5	14	8,506	s.	50	w.	8	9	9	12	5.4	0.0	0.0
Drexel	1,299	10	54	28.56	29.96	.....	50.7	.....	81	6	61	29	19	40	38	44	39	70	2.23	.....	10	9,304	se.	44	ne.	10	9	8	13	6.1	T.	0.0
Lincoln	1,189	11	84	28.68	29.95	+.01	53.2	+2.5	84	6	65	32	19	43	34	47	42	73	2.48	−0.3	13	8,400	se.	46	n.	10	10	4	16	6.4	T.	0.0
Omaha	1,105	115	122	28.79	29.98	+.03	52.6	+2.1	83	6	62	30	19	43	36	46	40	67	2.12	−0.9	9	6,738	se.	40	nw.	11	10	9	11	5.6	T.	0.0
Valentine	2,598	47	54	27.25	29.98	+.04	46.3	+0.8	77	22	57	20	19	36	38	40	34	71	2.30	0.0	13	7,781	e.	51	s.	22	4	16	10	6.2	0.8	0.0
Sioux City	1,135	94	164	28.77	30.00	+.05	50.2	+1.7	73	20	59	30	19	41	35	43	36	64	3.08	+0.3	9	9,337	se.	55	nw.	19	6	7	17	6.8	4.0	0.0
Huron	1,306	59	74	28.61	30.02	+.06	47.3	+2.2	73	22	58	24	19	37	37	42	36	68	0.54	−2.1	8	7,757	se.	42	w.	19	12	10	8	4.7	0.1	0.0
Pierre	1,572	70	75	28.30	29.98	+.03	49.2	+2.4	77	22	60	24	19	39	34	42	36	68	0.59	−1.4	6	7,675	se.	46	nw.	18	9	6	15	6.2	T.	0.0
Yankton	1,233	49	57	28.66	29.99	+.03	49.8	+1.9	73	22	60	27	19	40	34	.....	.....	.....	1.37	−1.4	6	6,590	ne.	33	s.	15	6	12	12	6.5	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, April, 1922*—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 inch, 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.
Northern Slope.							41.0	−1.9										68	2.27	+0.7										6.4		
Billings	3,140	5					44.6		79	22	58	13	10	31	46				2.91		9		nw.				4	13	13		5.0	0.0
Havre	2,505	11	44	27.33	29.99	+.06	42.7	−1.0	77	22	53	24	19	33	40	37	32	73	1.11	+0.1	12	5,178	e.	27	n.	18	5	10	15	6.7	2.1	0.0
Helena	4,110	87	112	25.75	30.00	+.03	40.1	−1.9	70	21	49	19	12	31	34	33	25	61	2.04	+0.9	11	6,228	sw.	35	sw.	18	5	7	18	7.3	12.9	0.0
Kalispell	2,973	48	56		29.99	+.03	40.1	−2.4	67	21	49	23	17	32	34				1.86	+0.8	14	4,206	nw.	24	w.	17	6	12	12		8.0	T.
Miles City	2,371	26	48	27.44	30.02	+.06	45.4	+0.7	77	21	56	20	10	35	40	39	35	79	2.13	+1.0	13	5,140	se.	36	ne.	18	6	13	11	6.3	8.3	0.0
Rapid City	3,259	50	58	26.56	30.01	+.06	43.3	−0.2	74	22	53	20	19	34	38	37	29	63	3.22	+0.9	10	6,852	n.	38	n.	18	5	9	16	6.7	3.1	0.0
Cheyenne	6,088	84	101	23.91	29.94	+.03	38.2	−3.4	65	22	48	19	17	28	33	32	26	70	3.23	+1.4	16	9,190	w.	60	w.	18	7	7	16	6.6	13.8	0.0
Lander	5,372	60	68	24.57	29.98	+.04	37.8	−4.4	64	23	48	9	18	28	34	33	28		3.65	+1.2	8	3,534	sw.	36	sw.	21	9	12	9	5.8	31.8	0.0
Sheridan	3,790	10	47	26.05	29.99		40.3		72	22	51	10	7	30	46	35	28	67	3.47		12	5,683	nw.	29	se.	27	4	13	13	6.7	20.4	0.0
Yellowstone Park	6,200	11	48	23.79	29.99	+.03	33.2	−3.8	62	21	44	4	17	23	36	27	21	65	1.15	−0.2	14	6,236	s.	48	sw.	11	8	11	11	6.0	5.7	T.
North Platte	2,821	11	51	27.04	29.98	+.06	48.1	−0.5	77	22	60	25	19	37	44	41	34	68	2.01	−0.1	6	6,731	e.	42	nw.	10	9	6	15	5.8	0.3	0.0
Middle Slope.							52.8	−0.8										66	4.20	+2.0										5.7		
Denver	5,292	106	113	24.62	29.90	.00	45.2	−1.9	72	30	56	18	18	34	34	37	28	60	3.65	+1.5	14	5,737	s.	43	nw.	15	11	7	12	5.3	21.0	0.0
Pueblo	4,685	80	86	25.18	29.86	−.02	48.8	−1.7	78	22	61	20	18	37	43	39	29	56	1.21	−0.2	8	4,704	e.	35	w.	15	8	13	9	5.6	T.	0.0
Concordia	1,392	50	58	28.47	29.95	+.02	54.4	+0.8	82	6	64	34	19	44	38	47	41	69	2.33	−0.1	10	7,386	s.	44	nw.	11	12	4	14	5.7	T.	0.0
Dodge City	2,509	11	51	27.34	29.94	+.04	53.0	−1.4	82	21	64	29	11	42	38	45	39	69	4.24	+2.4	11	9,146	ne.	58	nw.	10	12	5	13	5.1	T.	0.0
Wichita	1,358	139	158	28.48	29.90	−.03	55.5	−1.1	79	21	64	35	18	47	34	50	44	71	6.12	+3.4	12	10,793	se.	66	s.	10	8	10	12	5.9	0.0	0.0
Altus	1,410	5					61.3		91	16	72	36	19	50	49				5.72		9		se.				12	2	16		0.0	0.0
Broken Arrow	765	11	52	29.11	29.94		60.1		79	6	69	36	1	51	30				5.63		12	10,504	se.	62	sw.	10	8	8	14	6.1	0.0	0.0
Muskogee	652	4					62.5		85	22	73	34	1	52	39				7.33		12		ne.				9	6	15		0.0	0.0
Oklahoma City	1,214	10	47	28.66	29.94	+.02	60.0	+0.4	85	12	69	36	18	51	34	52	47	72	7.67	+4.9	12	9,239	s.	50	w.	10	8	9	13	6.1	0.0	0.0
Southern Slope.							62.4	0.0										55	4.49	+2.9										5.5		
Abilene	1,738	10	52	28.11	29.90	.00	64.9	+0.5	94	16	75	37	19	55	38	54	45	59	8.71	+6.4	11	8,684	se.	40	w.	10	7	5	18	6.6	0.0	0.0
Amarillo	3,676	10	49	26.19	29.90	+.03	54.8	+0.2	83	12	66	33	11	43	40	46	38	65	3.25	+1.5	8	8,786	se.	40	nw.	10	12	11	7	4.7	T.	0.0
Del Rio	944	64	71	28.91	29.89	.00	71.3	+1.3	96	9	82	47	11	61	4[illegible]				4.62	+2.7	8	9,237	se.	52	nw.	8	7	9	14	6.1	0.0	0.0
Roswell	3,566	75	85	26.27	29.84	−.01	58.4	−2.2	84	12	71	30	19	45	47	45	26	41	1.37	+0.9	6	7,985	s.	42	w.	12	14	8	8	4.5	0.0	0.0
Southern Plateau.							54.2	−3.7										40	0.40	0.0										2.6		
El Paso	3,762	110	133	26.10	29.82	−.01	61.6	−2.2	87	22	74	35	19	49	36	44	22	31	0.28	0.0	4	10,755	w.	57	w.	9	17	13	0	2.6	0.0	0.0
Santa Fe	7,013	38	53	23.15	29.85	+.01	44.3	−3.3	69	21	56	19	10	32	36	34	20	50	1.43	+0.6	8	5,726	sw.	42	sw.	12	14	7	9	4.7	0.5	0.0
Flagstaff	6,908	10	59				38.6	−3.6	67	21	52	4	6	25	45				0.97		8		w.				13	10	7		5.8	
Phoenix	1,108	76	81	28.73	29.88	+.01	63.2	−3.4	92	23	78	35	10	49	45	48	32	39	0.24	−0.2	1	4,425	e.	26	w.	9	21	7	2	2.2	0.0	0.0
Yuma	141	9	54	29.75	29.90	+.02	65.5	−4.6	95	22	81	40	10	50	43	50	31	36	0.00	−0.1	0	4,992	w.	31	nw.	5	26	3	1	1.4	0.0	0.0
Independence	3,957	9	41	25.93	29.96	+.06	51.7	−5.0	80	22	66	26	10	38	40	40	28	42	0.04	−0.1	1	6,745	nw.	39	w.	8	23	6	1	2.2	T.	0.0
Middle Plateau.							43.4	−5.4										55	0.99	−0.2										4.9		
Reno	4,532	74	81	25.46	30.03	+.06	43.2	−4.1	73	21	57	20	15	29	40	34	24	54	0.40	−0.2	6	5,745	w.	47	w.	10	17	8	5	3.2	5.8	0.0
Tonopah	6,090	12	20	24.00	29.96		41.4		67	20	52	16	9	31	32	32	21	50	0.44	−1.3	6	6,965	nw.	41	nw.	8	9	19	2	4.2	5.1	0.0
Winnemucca	4,344	18	56	25.60	30.03	+.07	41.4	−5.7	70	21	55	17	11	28	38	33	25	60	0.55	−0.3	7	5,403	sw.	44	nw.	10	13	5	12	5.1	2.9	0.0
Modena	5,479	10	43	24.54	29.91	+.03	40.2	−6.7	72	22	54	7	9	26	44	32	21	55	1.02	+0.2	11	7,418	sw.	49	n.	8	9	14	7	5.0	6.8	0.0
Salt Lake City	4,360	163	203	25.58	29.97	+.05	44.4	−5.2	70	27	53	24	17	36	28	36	28	56	3.06	+0.8	11	5,346	nw.	38	nw.	28	11	6	13	5.7	22.6	0.0
Grand Junction	4,602	60	68	25.29	29.87	−.01	48.0	−5.2	77	21	60	22	18	36	37	38	28	53	0.45	−0.3	11	5,010	se.	38	s.	5	6	10	14	6.2	0.7	0.0
Northern Plateau.							44.8	−4.2										62	1.20	−0.1										6.0		
Baker	3,471	48	53	26.45	30.08	+.08	40.6	−2.9	66	21	50	22	12	31	34	35	28	66	0.71	−0.2	9	5,122	se.	36	nw.	5	6	16	8	5.5	0.3	0.0
Boise	2,739	78	86	27.16	30.04	+.06	45.0	−5.1	70	21	55	27	17	34	31	38	28	56	1.51	+0.3	11	4,783	nw.	33	w.	7	11	8	11	5.1	4.0	0.0
Lewiston	757	40	48	29.26	30.08	+.09	49.0	−3.9	79	21	60	30	12	38	35				1.03	−0.1	14	3,082	e.	28	nw.	22	6	9	15	6.8	T.	0.0
Pocatello	4,477	60	68	25.42	29.98	+.04	40.4	−6.4	67	22	49	19	12	31	31	33	26	62	1.81	−0.2	13	5,869	se.	36	sw.	11	5	10	15	6.7	7.0	0.0
Spokane	1,929	101	110	27.99	30.06	+.07	44.6	−3.1	72	21	54	25	12	35	33	39	33	69	1.43	+0.1	15	4,977	sw.	25	s.	24	4	11	15	6.9	1.0	0.0
Walla Walla	991	57	65	29.00	30.08	+.07	49.2	−3.6	78	21	58	33	12	40	31	42	33	57	1.34	−0.4	13	4,852	sw.	29	sw.	7	9	12	9	5.2	0.1	0.0
North Pacific Coast Region.							46.5	−2.6										77	2.60	−0.5										6.5		
North Head	211	11	56	29.95	30.18	+.13	44.6	−2.9	71	25	48	36	12	41	25	43	40	85	3.88	+0.7	18	12,663	nw.	66	s.	13	9	11	10	5.7	0.0	0.0
Port Angeles	29	8	53	30.12	30.15		44.1		58	19	52	31	13	37	25				0.91	−1.0	14	5,239	sw.	32	w.	10	8	10	12	5.4	0.0	0.0
Seattle	125	215	250	30.03	30.16	+.13	46.6	−2.8	71	25	53	36	15	40	29	42	37	75	2.53	+0.2	16	7,112	s.	34	s.	7	1	12	17	7.4	T.	0.0
Tacoma	213	113	120	29.94	30.17	+.14	46.1	−2.8	68	25	53	29	12	39	28				1.63	−1.1	14	5,223	sw.	30	sw.	13	0	14	16	7.4	T.	0.0
Tatoosh Island	86	7	57	30.03	30.13	+.13	44.5	−1.6	60	25	48	34	13	41	15	42	40	86	3.51	−2.8	18	9,871	s.	58	w.	7	5	6	19	7.4	T.	0.0
Yakima	1,071	4																														
Medford	1,425	4					48.1		78	25	62	28	18	34	44				0.61		9		nw.				13	7	10		0.0	0.0
Portland, Oreg.	153	68	106	30.01	30.17	+.11	48.7	−3.1	72	25	56	35	8	41	27	44	38	71	3.05	0.0	16	4,902	nw.	27	sw.	13	5	3	22	7.8	T.	0.0
Roseburg	510	9	57	29.65	30.21	+.18	48.6	−2.4	76	25	59	32	18	38	40	42	35	67	2.68	+0.2	11	2,816	n.	20	sw.	7	9	15	6	4.7	T.	0.0
Middle Pacific Coast Region.							52.3	−2.4										62	0.74	−1.5										2.8		
Eureka	62	73	89	30.16	30.24	+.13	46.1	−3.4	54	18	50	34	17	42	16	43	41	82	2.39	−1.5	11	6,794	n.	38	n.	5	10	11	9	5.6	0.0	0.0
Point Reyes	490	7	18	29.53	30.05		46.7	−3.9	61	18	50	40	30	43	17				0.19		3	23,598	nw.	74	nw.	4	18	6	6	3.3	0.0	0.0
Red Bluff	332	50	56	29.68	30.05	+.02	57.8	−1.3	86	25	71	32	13	45	37	47	34	47	0.13	−1.7	2	5,737	nw.	28	nw.	10	25	5	0	1.7	0.0	0.0
Sacramento	69	106	117	29.97	30.04	+.03	56.4	−1.7	82	24	68	35	15	45	33	47	37	52	0.40	−1.6	2	6,778	nw.	31	nw.	8	26	3	1	1.5	0.0	0.0
San Francisco	155	208	243	29.92	30.09	+.04	53.5	−0.2	75	19	60	44	13	47	26	46	41	69	0.47	−1.4	2	7,899	w.	38	nw.	8	25	3	2	2.1	0.0	0.0
San Jose	141	12	110	29.94	30.10		53.1	−3.6	78	19	66	33	9	40	38				0.32	−1.1	4	5,250	nw.	27	nw.	8	21	7	2	2.5	0.0	0.0
South Pacific Coast Region.							56.2	−2.3										66	0.16	−0.8										3.3		
Fresno	327	89	98	29.69	30.05	+.06	57.4	−3.8	83	20	70	35	9	45	33	47	36	54	0.10	−0.6	1	6,013	nw.	35	nw.	4	24	5	1	1.5	0.0	0.0
Los Angeles	338	159	191	29.66	30.02	+.03	57.6	−1.8	86	19	66	42	13	49	29	50	43	67	0.10	−1.0	1	5,051	sw.	34	nw.	15	14	12	4	3.7	0.0	0.0
San Diego	87	62	70	29.93	30.02	+.03	56.3	−1.9	80	20	63	44	6	50	28	50	46	73	0.17	−0.6	6	4,731	w.	30	w.	5	10	13	7	5.0	0.0	0.0
San Luis Obispo	201	32	40	29.87	30.09	+.04	53.4	−1.8	86	20	63	33	13	44	39	46	40	68	0.27	−1.2	3	3,906	nw.	28	ne.	1	18	11	1	3.0	0.0	0.0
West Indies.																																
San Juan, P. R.	82	8	54	29.98	30.07		74.2		80	24	78	65	2	70	13				3.19	−0.7	16	11,346	e.	33	e.	19	12	12	6	4.6	0.0	0.0
Panama Canal.																																
Balboa Heights	118	7	7	29.72	29.84	.00	83.0	+1.4	94	12	91	72	1	76	20	74	72	71	0.16	−2.7	3	8,157	nw.	32	n.	25	0	25	5	6.2	0.0	0.0
Colon	36	7	97	29.83	29.87	.00	82.6	+1.7	89	15	87	75	4	78	12	76	74	78	2.11	−2.2	12	11,980	n.	31	n.	2	1	25	4	6.0	0.0	0.0
Alaska.																																
Juneau	80	11	49	29.92	30.01		39.6		53	29	46	25	16	34	22	36	31	76	10.88		22	3,444	se.	20	ne.	13	4	4	22	7.9	0.8	0.0

TABLE II.—*Data furnished by the Canadian Meteorological Service, April, 1922.*

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.	*In.*	*In.*	*In.*	°*F*	°*F*	°*F*	°*F*	°*F*	°*F*	*In.*	*In.*	*In.*
St. Johns, N. F	125												
Sydney, C. B. I	48												
Halifax, N. S	88												
Yarmouth, N. S	65												
Charlottetown, P. E. I	38												
Chatham, N. B	28												
Father Point, Que	20	29.93	29.95	+.02	35.3	+2.1	42.8	27.8	68	18	1.84	+0.26	5.2
Quebec, Que	296	29.66	29.99	.00	39.9	+4.8	48.3	31.5	66	25	3.33	+1.24	2.5
Montreal, Que	187	29.77	29.98	−.02	42.4	+2.7	50.3	34.4	66	24	4.75	+2.51	8.2
Stonecliffe, Ont	489												
Ottawa, Ont	236	29.74	30.01	−.01	43.7	+3.7	54.4	33.1	74	24	3.65	+2.15	13.1
Kingston, Ont	285	29.70	30.02	.00	42.8	+2.8	50.8	34.9	64	25	4.26	+2.47	10.9
Toronto, Ont	379	29.63	30.04	+.02	45.4	+4.6	55.0	35.9	78	25	3.77	+1.40	0.2
Cochrane, Ont	930												
White River, Ont	1,244	28.68	30.02	−.02	33.1	+0.1	43.1	23.1	60	8	2.25	+1.00	10.1
Port Stanley, Ont	592	29.45	30.11	+.09	44.6	+3.6	54.3	35.0	67	22	1.77	−0.70	4.2
Southampton, Ont	656	29.31			41.8	+3.1	50.1	33.6	71	24	4.60	+2.80	1.5
Parry Sound, Ont	688	29.31	30.01	−.01	42.8	+5.2	51.3	30.3	63	18	4.62	+2.71	6.1
Port Arthur, Ont	644	29.33	30.04	+.01	36.7	+3.2	44.0	29.4	67	15	0.88	−0.84	1.4
Winnipeg, Man	760	29.19	30.04	+.02	41.5	+5.6	52.3	30.7	72	16	0.52	−0.53	1.6
Minnedosa, Man	1,690	28.19	30.04	+.03	40.0	+4.0	51.4	28.7	76	9	0.34	−0.72	2.5
Le Pas, Man	860												
Qu'Appelle, Sask	2,115	27.71	29.98	−.01	38.2	+0.8	48.8	27.7	76	11	1.96	+0.91	14.8
Medicine Hat, Alb	2,144	27.63	29.91	−.01	42.9	−1.6	53.9	32.0	68	21	1.54	+0.80	8.2
Moose Jaw, Sask	1,759												
Swift Current, Sask	2,392	27.43	30.08	+.12	40.6	−0.7	51.4	29.8	74	16	0.68	−0.25	
Calgary, Alb	3,428												
Banff, Alb	4,521	25.33	29.96	+.06	34.8	−1.5	44.7	24.9	62	13	1.69	+0.61	
Edmonton, Alb	2,150												
Prince Albert, Sask	1,450	28.43	30.02	+.04	39.8	+3.7	51.1	28.5	74	13	1.20	+0.37	0.7
Battleford, Sask	1,592	28.23	29.98	+.01	42.1	+4.9	53.9	30.4	77	11	0.60	+0.13	1.0
Kamloops, B. C	1,262												
Victoria, B. C	230	29.87	30.13	+.12	46.5	−0.3	52.7	40.2	67	35	0.73	−1.64	

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Kamloops, B. C	1,262	28.65	29.97	+.05	36.8	+0.7	46.1	27.5	57	11	0.36	−0.21	3.5
Banff, Alb	4,521	25.18	29.89	−.05	22.8	+2.6	33.8	11.8	42	−21	1.10	−0.31	11.0
Edmonton, Alb	2,150	27.53	29.87	−.09	22.4	−1.8	34.1	10.8	52	−11	0.57	−0.15	5.7
Calgary, Alb	3,428	26.26	29.94	−.01	26.0	−.02	38.5	13.5	52	−15	0.51	−0.21	5.1
Medicine Hat, Alb	2,144	27.56	29.87	−.13	29.0	+1.5	39.2	18.8	58	0	0.32	−0.44	3.2

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W. J. HUMPHREYS, Professor in Charge.

[Weather Bureau, Washington, June 3, 1922.]

TABLE 1.—*Noninstrumental earthquake reports, April, 1922.*

Day.	Approximate time, Greenwich civil.	Station.	Approximate latitude.	Approximate longitude.	Intensity Rossi-Forel.	Number of shocks.	Duration.	Sounds.	Remarks.	Observer.
		CALIFORNIA.								
1922.	*H. m.*		° ′	° ′			*Sec.*			
13	4 12	Yorba Linda	33 50	117 45	3	1	4-5	None		P. J. Ton.
		Santa Ana	33 45	117 45		1	5		No damage	Press.
16	5 30	Riverside	33 58	117 21		1			Felt by several	Van Court Warren.
26	0 12	Calexico	32 41	115 30	3	1	1-10	None	do	W. S. Pratt.
		ILLINOIS.								
11	5 00	Monmouth	40 50	90 40	2	2	30	do	Felt by one	R. P. Hughes.
		SOUTH CAROLINA.								
9	16 58?	Summerville	33 05	80 15	1			Faint	Felt by several	E. G. Robertson.

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		OREGON.								
Jan. 31	13 20	Crater Lake	42 50	122 00	4	1	Few	Faint	Felt by one	Mrs. W. T. Norris.