U. S. DEPARTMENT OF COMMERCE
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WEATHER BUREAU
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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

FEBRUARY 1964
Volume 15 No. 2

ASHEVILLE: 1964

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NOTE: Delayed data and corrections will be carried in the June and December issues of this publication.

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CLIMATOLOGICAL DATA

NATIONAL SUMMARY

Volume 15 No. 2 **FEBRUARY 1964**

GENERAL SUMMARY OF WEATHER CONDITIONS

During the first week of February, an intense, slow moving Low brought a foot or more of snow over a wide area extending from New Mexico to south-central Nebraska. The snow reached depths of 18 inches from Hereford, Tex., northeastward to the Oklahoma Panhandle and from 22 to 25 inches in the Borger, Tex., vicinity. Strong winds piled the snow in drifts up to 20 feet deep, isolating some Texas towns and ranches. Near the weekend, a storm moved from Canada into the northern Great Plains. Winds increased to 50 m.p.h., in gusts, and the temperature at Bemidji, Minn., plunged to 30° below zero.

During the second week, a storm brought generous rains to the western edge of Oregon and Washington and, as the storm moved inland, snow flurries fell in the higher elevations of those States and eastward to the Rocky Mountains.

A storm centered over the northern portion of the Gulf of Mexico produced rains along the Gulf during the third week of February. The storm intensified and moved up the Atlantic seaboard, bringing rain to the Southeast and snow to the Northeast. A storm developed over the Rocky Mountains. As it spread southward through the northern and central Rockies and adjacent Great Plains, the winds gusted to 60 m.p.h. A storm over southeastern New Mexico moved eastward, bringing snow flurries to that State and to nearby parts of Texas. Drenching rains fell over parts of south Texas and 2 to 8 inches of snow over other parts. Flurries fell at Houston and Galveston.

In the final week of February, a storm intensified over southern Saskatchewan, Canada. It brought subzero temperatures to the northern Great Plains. Northerly winds reached 60 m.p.h. at some locations in the northern Rocky Mountains and the northern Great Plains. As the arctic front continued southward and eastward, subzero temperatures occurred over the northern Appalachians and subfreezing weather reached the Gulf of Mexico. Light snow slicked the highways of the central Great Plains and snow and rain fell over the highlands of the Middle Atlantic States. A disturbance centered over the Gulf of Mexico produced generous rains along the coast. As the storm moved up the Atlantic coast, it produced several inches of snow over the southern Appalachians.

Tatoosh Island, Wash., received 6.80 inches of rain during February. This is slightly less than normal. In other parts of Washington, February 1964 was among the driest Februarys of record. It was the driest February at Olympia and the third driest at Walla Walla. It was the third February of record at Olympia in which no snow fell. Oregon received little rain during the month. It was the driest February in 28 years at Pendleton, and the driest since 1932 at Roseburg. At Salem, it was the second driest February of record and the coldest since 1956.

Idaho was cold and dry. At Boise, February 1964 was the coldest February since 1933 and the first February of record in which the temperature did not rise to 45°. At Pocatello, it was the coldest February of record and the driest since 1956. Temperatures at Idaho Falls averaged 11.5° below normal, making it the coldest February since 1950. Boise, where the sunshine in February averages 48 percent, recorded 86 percent of sunshine in February 1964.

California stations recorded dry, sunny weather in February 1964. At Blue Canyon, the precipitation was the least of record, 0.82 inch. Rainfall at Red Bluff totaled only 0.02 inch, the least amount in 68 years. The sun shone 94 percent of the time it was above the horizon, setting a new record for Red Bluff. At Fresno, it was the third February of record (1878) without measurable rain. That station received a light sprinkle. Long Beach received no rain in February. It was the first time in 21 years there was neither rain nor heavy fog in February. Frequent Santa Ana winds were noted at Burbank, the relative humidity continued low, and, with only a trace of rain, the record set in 1933 was equaled.

At Los Angeles, there were 24 clear days; twice the average number for February. Similarly, Sacramento, San Diego, San Francisco, Santa Maria, and Santa Catalina experienced mostly sunny skies with low relative humidity and little rain.

Nevada and Arizona were cool and dry in February. At Elko, Nev., temperatures averaged below normal on every day except the 1st. At Ely, sunshine averaged 85 percent, setting a new record; and the rainfall, 0.07 inch, also set a new record. Reno was cool and dry. The lack of snow caused the ski slopes to become icy and in generally poor condition by the end of the month.

The drought continued at Prescott, Ariz., where the rainfall totaled only 0.07 inch. Flagstaff reported dry (0.14 inch) and windy weather. Phoenix received only 0.01 inch of rain. It was the coldest February since 1939 at Phoenix and the third coldest of record. Similarly, at Tucson, it was the coldest February since 1939.

New Mexico continued cold. At Albuquerque, it was the coldest February since records began in 1893. The snowfall, 8.2 inches, exceeded all previous February records. At Roswell, it was the coldest February since 1905, and at Raton, it was the next to the coldest of record. Colorado Springs, and Pueblo, Colo., were cool and dry. Denver was cooler but somewhat wetter than normal.

Wyoming was cold, windy, and dry. In contrast, Montana experienced warmer than normal temperatures. Temperatures at Glasgow averaged more than 14° above normal. At Havre, it was the warmest February since 1954, the driest since 1934, and the windiest since records began in 1879.

February was dry over the northern Great Plains. Huron and Sioux Falls, S. Dak., reported the warmest in 10 years and the driest in 15 years. Many stations remarked about the absence of severe storms. Temperatures averaged 0.4° above normal at Kansas City, Mo. In Kansas, the dry pattern continued.

Abilene, Tex., reported February as cool and wet. That station received 4.0 inches of snow on the 20th. At Dallas and Ft. Worth, February was cool and dry, but neither

the coolest nor the driest of record. It was the coldest of record at Corpus Christi.

Cool weather predominated over the lower Mississippi River Valley. The highest temperature at Memphis, Tenn., was 62° on February 2. Memphis usually records 70° on one or more days in February.

Cool weather persisted over the upper Ohio River Valley. Monthly minimums were not extremely low, but temperatures averaged much lower than usual. Akron, Ohio, recorded no zero temperatures during the month, but the monthly average was several degrees below normal.

Buffalo, N. Y., noted that the minor light snows benefited winter sports but Albany remarked that 21.4 inches of snow was rather heavy for February. Snowfall was heavy in Pennsylvania. The heavy snow at Allentown on the 19th caused many schools to close. Harrisburg received 30.2 inches, more than 4 times the normal fall during February. Nantucket, Mass., received unusually heavy snow from several storms. Worcester, Mass., experienced a normal February, except for the unusually heavy snow.

Virginia, West Virginia, and North Carolina also received heavy snow. Beckley, W. Va., recorded 30.8 inches, or 4 times the normal amount. Both Elkins and Charleston set new snowfall records for the month. Asheville, N. C., set a new February record with 13.9 inches of snow.

Southeastern stations called February cold, cloudy, windy, wet, and generally unpleasant. At Athens, Ga., temperatures averaged colder than in any February since 1921 and Atlanta, Ga., complained that there was about twice the usual number of rainy days.

Florida was cool. Temperatures at Jacksonville averaged several degrees below normal and at Key West February 1964 was the coolest in several years.

In summary, temperatures averaged above normal over Washington and northern Oregon, most of the Missouri and upper Mississippi River Basins, and over Maine. Temperatures over north-central Montana and northwestern North Dakota averaged more than 10° above normal. Temperatures averaged below normal over most of the rest of the United States. In central New Mexico, temperature departures exceeded -10°.

Most of the area west of the Rocky Mountain States received less than 0.50 inch of rain during February. The main exceptions included the western half of Washington, the coastal portion of Oregon, and the extreme northwestern part of California. Most of the area southeast of a line from northern Oklahoma to southern Maine received more than 2 inches. The main exception was the State of Texas, where the rainfall was generally less than 2 inches. Precipitation exceeded 4 inches over most of Mississippi, Alabama, and the Southern and Middle Atlantic Coastal States.

CONDENSED CLIMATOLOGICAL SUMMARY

Section	Temperature						Precipitation			
	Monthly extremes						Monthly extremes			
	Station	Highest	Date	Station	Lowest	Date	Station	Greatest	Station	Least
	°F				°F			In.		In.
Alabama	Citronelle	75	13	Valley Head	9	23	Headland	7.43	Albertville 2SE	1.69
Alaska	2 Stations	55	24+	Allakaket	-60	18	Little Port Walter	37.67	Big Delta FAA	.10
Arizona	Yuma WBAP	82	10	Maverick	-20	13	Alpine	1.12	55 Stations	.00
Arkansas	4 Stations	68	10+	Gilbert	7	22	Mount Magazine	4.46	Rogers	.67
California	Indio US Date Garden	86	20	White Mountain 2	-10	25+	Crescent City 7ENE	3.95	58 Stations	.00
Colorado	Holly	67	2	Taylor Park	-38	15	La Veta	3.21	2 Stations	.00
Connecticut	Westbrook	52	5	Coventry	-11	23	Norfolk 2SW	4.36	Coventry	1.50
Delaware	Lewes 1SW	59	5	Bridgeville 1NW	10	13	Dover	5.35	Newark University Farm	2.48
Florida	6 Stations	87	29+	DeFuniak Springs	18	10	Tallahassee WBAP	11.50	Marathon Shores	1.15
Georgia	Folkston 9SW	79	15	Blairsville Exp Sta	7	23	Nashville 5SSE	9.13	Cartersville	4.02
Hawaii	2 Stations	87	17+	Mauna Loa Slope Obs.	21	26	Mountain View 9I	31.67	7 Stations	.00
Idaho	Slate Creek RS	57	10	Island Park Dam	-30	27	Avery Ranger Station	3.77	2 Stations	.00
Illinois	3 Stations	62	2	Freeport	-8	27	Virden	3.67	Princeville 1N	.26
Indiana	W Baden Springs Col	63	26	Wheatfield 2NNW	-9	27	Frankfort Disposal Pl	3.42	Albion 5F	.09
Iowa	3 Stations	59	29	Elkader	-9	27	Fort Madison	D 1.29	4 Stations	T
Kansas	2 Stations	67	1	Kirwin	-5	16	Plains	2.31	Havensville 2E	.05
Kentucky	Hickman 1E	64	3	Blaine 1W	-6	13+	Cumberland	5.68	Paducah	1.47
Louisiana	Buras	77	13	Ashland 2S	14	22	Buras	10.16	Sterlington Dam	1.68
Maine	5 Stations	45	26+	Haynesville	-30	10	Jonesboro	4.59	Bingham Wyman Dam	.26
Maryland	La Plata 1W	65	5	Oakland 1SE	-17	12	Snow Hill	7.23	Crisfield Somers Cove	D .77
Massachusetts	2 Stations	50	27+	Birch Hill Dam	-17	28	Spot Pond	5.67	Adams	1.44
Michigan	Stephenson	55	29	2 Stations	-28	24	Benton Harbor Airport	2.94	Saginaw Consumer P Co	.05
Minnesota	Preston	58	29	Bigfork	-37	8	Walker AH Gwah Ching	.75	2 Stations	.00
Mississippi	Hattiesburg	75	5	4 Stations	13	23	Eupora	7.49	Oakley Exp Station	2.22
Missouri	Alton	69	29	Edgerton	-7	26	Fisk	5.25	Maryville 2E	.22
Montana	Telegraph Creek	66	4	3 Stations	-29	27+	White Sulphur Springs	D 3.70	Biddle	.00
Nebraska	Cambridge	66	1	Broken Bow 2W	-12	16	Loup City 7NNE	2.17	Gavins Point Dam	.06
Nevada	Sunrise Manor Las Vegas	75	10	Charleston	-28	26	Austin	.73	11 Stations	.00
New Hampshire	Epping	49	26	Fabyan	-30	10	Dublin	3.92	Woodstock	.73
New Jersey	2 Stations	57	26+	Layton 2	-5	23	Bass River St Forest	5.27	Sussex	1.57
New Mexico	Jal	74	10	Eagle Nest	-41	15	Lake Maloya	6.56	6 Stations	.00
New York	2 Stations	54	5	Paul Smiths	-29	10	Pulaski	D 5.08	Chazy 3E	.43
North Carolina	Tryon	69	2	Banner Elk	-2	23	Shallotte 4WNW	8.16	Wilbar 2NW	2.15
North Dakota	2 Stations	54	28	Willow City	-35	26	Hannah 2N	.79	4 Stations	T
Ohio	Fernbank-Cincinnati	61	16	Millport 2NW	-12	24	Racine Dam 23	3.08	2 Stations	.48
Oklahoma	Clayton	70	1	Boise City 2E	-3	7	Altus	4.04	Fort Supply Dam	.32
Oregon	Brookings	76	20	Seneca	-19	5	Tidewater	5.56	00 Ranch	.00
Pennsylvania	Farrell Sharon	58	5	DuBois 7E	-18	23	Milroy	5.43	Covington 2WSW	1.08
Puerto Rico	Juana Diaz Camp	101	28	Junco 1E	51	27	Rio Blanco Upper	4.59	Caonillas Utuado	.00
Rhode Island	3 Stations	47	5	Kingston	0	23	Block Island WBAP	3.54	Providence WBAP	3.15
South Carolina	Beaufort 7SW	71	18	Chester 2WSW	12	12	McClellanville	8.90	Fort Mill 4NW	3.15
South Dakota	2 Stations	61	29+	Camp Crook	-24	23	Lead 1SE	4.32	8 Stations	T
Tennessee	5 Stations	64	4+	Mountain City 2	-4	23+	Crossville Exp Sta	6.30	Portland Sewage Plant	1.96
Texas	Alice	87	13	Panhandle	0	7	Freeport 5NW	6.22	13 Stations	.00
Utah	2 Stations	67	28+	Woodruff	-24	26	Silver Lake Brighton	1.53	15 Stations	.00
Vermont	Bellows Falls	45	6	2 Stations	-25	28+	Mays Mill	3.28	Cornwall	.48
Virginia	Hopewell	68	5	Burkes Garden	-10	12	Montebello 3NE	6.62	Hog Isl Ltl Machipongo	1.79
Washington	Dallesport FAA AP	68	23	2 Stations	-1	23+	Sappho 8E	12.34	3 Stations	.00
West Virginia	Charleston 1	64	6	Canaan Valley	-19	12	Pickens 1	7.60	Wheeling Warwood Dam 12	1.77
Wisconsin	Hancock Exp Farm	60	29	3 Stations	-29	24	Gurney	2.12	8 Stations	T
Wyoming	Cody 18SW	63	4	Rondurant 3NW	-33	3	Burgess Junction	3.41	La Barge 4WNW	T

+ And also on an earlier date or dates

NOTE: Dates in the above Condensed Climatological Summary apply to the period 24 hours prior to time of observation. In some cases the actual occurrence is on the calendar date preceding that shown. (See individual Climatological Data for times of observations).

D Water equivalent of snowfall wholly or partly estimated, using a ratio of 1 inch water equivalent to every 10 inches of snowfall.

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max. 90°F. or above	Min. 32°F. or below	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: .01 inch or more	With thunderstorms	Snow, Sleet: Total	Maximum depth on ground	Wind: Average speed	Prevailing direction	Fastest mile: Speed	Direction	Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.				°F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
ALABAMA																																
BIRMINGHAM	610	990.5	1016.5	52	34	42.7	- 6.0	63	10	21	23	0	14	31	65	4.11	- 1.17	0.96	12	0	T	T	8.7	11	38	W	10	8	4	17	6.8	53
HUNTSVILLE	605	992.5	1016.4	50	31	40.8	- 4.3	63	3	17	23	0	16	28	64	4.00	- 1.22	1.56	9	0	1.0	1	8.9	32	36*	13	15	8	4	17	6.6	
MOBILE	211	1013.9	1016.4	58	39	48.1	- 7.1	73	13	26	23	0	6	37	68	2.73	- 1.86	0.77	11	2	0.0	0	12.3	9	35*	31	15	10	6	13	6.1	
MONTGOMERY	195	1008.1	1016.6	55	36	45.3	- 5.0	67	10	24	23	0	12	33	67	4.49	0.13	1.60	11	0	T	0	8.7	30	31	W	19	6	9	14	6.8	53
ALASKA																																
ANCHORAGE	90	996.1	1001.1	28	13	20.1	2.1	44	6	-22	16	0	28	13	76	1.15	0.44	0.35	12	0	17.9	9	8.6	18	30*	19	7	5	3	21	7.8	32
ANNETTE	110	1012.6	1016.7	44	34	38.7	3.6	48	2	28	22	0	10	34	84	13.22	4.68	2.56	25	0	1.4	1	12.9	16	37*	18	11	0	4	25	9.0	
BARROW	22	1015.9	1016.6	-23	-34	-28.6	-10.3	6	25+	-54	19	0	29	-36	64	0.38	0.21	0.09	11	0	5.3	12						11	5	13	5.9	
BARTER ISLAND	39	1012.9	1014.8	-20	-29	-24.5	- 4.9	6	25	-48	19	0	29	-31	67	0.14	- 0.21	0.05	8	0	1.4	13	10.9	26	25*	8	20+	6	3	20	7.2	
BETHEL	125	999.8	1001.2	7	- 9	- 1.2	- 9.4	42	26	-35	14+	0	29	- 8	69	0.36	- 0.76	0.12	11	0	4.2	7	15.3	3	40*	3	11	8	0	21	7.0	
COLD BAY	94	993.3	997.3	31	21	26.2	- 1.8	44	4	6	18	0	24	21	80	1.75	- 1.42	0.65	17	0	8.3	5	18.5	3	52*	17	20	0	5	24	8.7	
CORDOVA	40	1000.7	1002.6	35	22	28.5	2.3	40	29+	- 2	10	0	22	26	90	18.97	14.33	3.81	24	0	80.2	28	9.6	12	31*	13	7	1	4	24	8.9	
FAIRBANKS	436	988.1	1006.1	11	-10	0.7	3.6	37	7	-39	17	0	29	- 6	70	0.46	- 0.06	0.20	6	0	9.9	15	4.7	36	21*	25	7	2	11	16	7.5	
JUNEAU	17	1010.2	1010.8	39	32	35.9	9.1	46	20	27	16	0	16	33	88	8.48	5.42	1.33	27	0	19.4	5	15.2	11	40*	12	6	0	1	28	9.8	12
KING SALMON	43	999.4	999.4	23	6	14.4	- 3.0	43	23+	-26	17	0	26	7	73	1.92	0.97	0.55	20	0	10.9	7	14.2	36	46*	14	4	4	6	19	7.7	
KOTZEBUE	10	1007.8	1008.3	-13	-29	-21.2	-17.2	29	24	-52	19+	0	29	-28	71	0.48	0.18	0.14	9	0	13.8	25	8.7	6	35*	18	24	13	0	16	5.7	
MC GRATH	334	990.7	1003.9	11	-12	- 0.6	- 0.7	37	24+	-46	10	0	29	- 9	63	1.11	- 0.03	0.24	14	0	21.3	19	5.4	2	26*	20	24+	10	0	19	6.6	
NOME	13	1003.9	1004.6	2	-18	- 8.1	-13.6	32	24	-37	14+	0	29	-14	73	0.90	- 0.04	0.32	11	0	9.1	22	10.3	36	44*	8	23	11	2	16	6.0	41
ST. PAUL ISLAND	22	997.7	998.9	22	9	15.5	- 7.8	35	23+	-10	20	0	29	14	92	5.69	4.46	1.36	26	0	55.8	33	25.0	3	69*	3	4	0	5	24	9.0	
SHEMYA	122	985.5	1000.8	30	25	27.5	- 3.3	38	13	18	2+	0	28	21	76	1.88	- 0.40	0.28	21	0	19.9	6	24.8	6	61*	12	13	1	4	24	8.5	
YAKUTAT	28	1006.8	1007.8	37	29	32.7	4.1	42	19	17	28	0	20	31	91	32.13	23.93	4.99	27	1	83.6	22	9.3	9	39*	13	1	1	0	28	9.3	
ARIZONA																																
FLAGSTAFF	6993	786.9	1017.2	42	11	26.6	- 3.0	58	10	1	15	0	29	8	49	0.14	- 1.64	0.14	2	0	1.4	2	8.4	36	25*	4	4	24	2	3	2.0	
PHOENIX	1117	976.3	1016.3	65	33	49.3	- 4.2	74	1	26	15+	0	15	18	31	0.01	- 0.84	0.01	1	1	0.0	0	7.0	11	28Y	ENE	2	21	5	3	2.0	94
PRESCOTT	5014	845.9	1017.7	52	21	36.6	- 3.0	66	10	11	15	0	29	8	36	0.07	- 1.01	0.07	1	0	1.0	T	9.8	33	35	N	2	23	3	3	1.8	93
TUCSON	2584	925.8	1015.4	63	33	47.7	- 5.2	76	10	24	15+	0	14	11	26	0.13	- 0.71	0.13	1	0	0.0	0	9.4	12	29	NW	2	19	4	6	2.7	88
WINSLOW	4880	850.7	1019.5	50	15	32.3	- 5.2	62	10	6	15	0	29	5	37	0.14	- 0.34	0.07	3	0	1.4	T	9.4	34	33*	34	19	21	3	5	2.4	
YUMA	199	1011.9	1017.3	71	42	56.2	- 2.9	82	10	32	15	0	1	15	25	0.14	- 0.22	0.11	2	0	0.0	0	8.2	36	50	W	20	21	5	3	2.3	94
ARKANSAS																																
FORT SMITH	449	999.4	1016.9	52	29	40.5	- 3.2	66	2	15	22	0	22	28	64	3.21	- 0.22	2.01	5	0	0.0	0	8.8	27	30	W	25	10	11	8	5.0	65
LITTLE ROCK	257	1003.3	1016.9	53	30	41.6	- 2.8	64	2	21	23	0	19	28	62	2.87	- 1.46	1.35	6	0	0.0	0	8.9	25	30	SW	15	13	7	9	5.0	62
TEXARKANA	361	1003.2	1016.9	55	35	45.0	- 3.5	65	2	22	22	0	11	32	67	2.74	- 1.28	1.58	7	1	0.0	0	7.0	25								
CALIFORNIA																																
BAKERSFIELD	494	1002.4	1020.7	65	37	51.0	- 1.0	75	20	30	13	0	2	31	51	0.41	- 0.73	0.37	3	0	0.0	0	6.0	10	25*	13	20	21	5	3	2.0	
BISHOP	4108	877.0		60	25	42.4	1.2	68	24+	17	28+	0	28			T	- 0.98	T	0	0	T	0						27	2	0		
BLUE CANYON	5280	840.9		49	31	40.1	3.0	62	9	22	29+	0	15			0.82	- 9.37	0.42	4	0	5.9	39	8.4		40*	5	19	23	2	4	2.0	
BURBANK	699	991.3	1017.7	69	40	54.6	- 0.6	80	19+	34	15	0	0	24	35	T	- 3.22	T	0	0	0.0	0	7.3	36	26*	35	11+	25	3	1	1.1	
EUREKA U	43	1022.0		54	40	47.0	- 1.2	72	20	33	16	0	0			1.20	- 4.33	0.81	7	1	0.0	0	6.9	N*	34	W	14	20	4	5	3.0	87
FRESNO	326	1008.2	1020.5	62	33	47.4	- 3.1	70	24+	28	14	0	16	34	65	T	- 2.19	T	0	0	0.0	0	5.3	8	26	NW	28	23	4	2	1.6	90
LONG BEACH	34	1016.8	1018.5	70	42	55.7	1.3	81	19+	36	17	0	0	33	51	0.00	- 2.31	0.00	0	0	0.0	0	6.3	30	28*	7	20	22	5	2	1.8	
LOS ANGELES	97	1014.4	1018.4	67	45	56.0	0.8	79	9	38	26	0	0	34	49	T	- 2.88	T	0	0	0.0	0	9.2	8	26Y	36	16	24	5	0	1.4	
LOS ANGELES U	312			69	49	59.0	1.9	79	19+	45	14+	0	0			T	- 3.33	T	0	0	0.0	0	7.0	W	36	NW	11	25	3	1	1.5	96
MT SHASTA R	3544	898.2		49	26	37.3	0.3	58	27+	18	14	0	28			0.36	- 5.55	0.25	6	0	6.5	4						22	5	2	2.1	
OAKLAND	3	1021.0	1021.5	60	45	52.3	1.6	72	19	41	26+	0	0	39	63	0.23	- 2.98	0.21	2	0	0.0	0	8.2	29	35*	4	20	22	5	2	1.8	
POINT ARGUELLO R	367	1005.4		63	38	50.3	- 0.7	77	9	31	27+	0	3			0.13	- 2.09	0.08	3	0	0.0	0	7.1		23*	32	29	23	4	2	2.0	
RED BLUFF	341	1009.1	1022.3	65	38	51.8	2.1	75	18	32	28+	0	2	26	44	0.02	- 3.29	0.02	1	0	0.0	0	10.9	35	37	SE	14	20	7	2	2.2	94
SACRAMENTO	17	1020.0	1021.6	63	36	49.4	0.2	76	19	31	26+	0	5	36	67	0.15	- 2.84	0.14	2	0	0.0	0	7.7	34	34	NW	11	24	4	1	1.7	95
SACRAMENTO U	23			64	39	51.5	1.0	77	19	34	17	0	0			0.19	- 3.28	0.18	2		0.0	0										
SANDBERG R	4517	863.9		49	33	41.0	- 0.4	62	10	24	29	0	16			0.21	- 2.37	0.14	2	0	0.0	0	15.7		43*	35	16+	22	5	2	1.8	
SAN DIEGO	13	1014.6	1017.9	68	45	56.7	0.5	79	20	41	15	0	0	35	50	0.37	- 1.78	0.34	3	0	0.0	0	6.3	7	24	NW	29	19	7	3	2.8	89
SAN FRANCISCO	8	1020.9	1021.8	62	40	50.8	- 0.1	72	19	36	24	0	0	37	62	0.27	- 3.21	0.23	2	0	0.0	0	9.4	29	47	WNW	10	24	3	2	1.3	
SAN FRANCISCO U	52			62	48	55.0	2.0	75	19	44	29	0	0			0.19	- 3.47	0.14	2	0	0.0	0	7.0	W	25	NE	25					95
SANTA CATALINA	1568	961.7		62	50	56.2	2.2	74	10+	44	29+	0	0			0.02	- 3.14	0.01	2	0	0.0	0						21	5	3	2.4	
SANTA MARIA	238	1011.1	1020.2	67	33	49.6	- 2.2	78	19+	26	14	0	17	33	62	0.05	- 2.45	0.05	1	0	0.0	0	8.2	30	26*	30	13	26	1	2	1.2	
STOCKTON	28	1019.8	1021.5	62	33	47.3	- 1.7	73	19	26	26	0	10	34	66	0.05	- 2.41	0.05	1	0	0.0	0	6.8	31	38*	31	11	24	4	1	1.6	

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 90°F. or above	No. of days: Min. 32°F. or below	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .01 inch or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile: Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.				°F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
COLORADO																																
ALAMOSA	7536	766.2		33	- 1	16.0	- 7.5	49	10	-18	8+	0	29			0.27	0.10	0.12	5	0	6.3	3						15	7	7	4.1	
COLORADO SPRINGS	6173	806.3	1017.3	39	13	26.1	- 5.4	58	1	- 5	26	0	29	7	50	0.22	- 0.11	0.12	4	0	2.7	2	12.6	36	39*	34	14	10	6	13	5.7	
DENVER	5283	1003.7	1016.4	40	15	27.4	- 4.1	64	1	- 3	26+	0	27	11	53	1.04	0.35	0.33	8	0	12.7	5	10.2	18	30	N	19+	8	9	12	5.9	61
GRAND JUNCTION	4849	859.6	1019.8	42	17	29.5	- 3.1	52	10	10	26+	0	29	8	44	0.02	- 0.67	0.02	1	0	0.4	T	6.2	13	26	E	25	13	8	8	4.2	83
PUEBLO	4639	853.8	1017.3	44	12	27.7	- 6.2	64	1	- 7	26	0	29	10	52	0.20	- 0.28	0.08	5	0	4.0	2	11.8	36	51	NW	16	13	5	11	5.1	66
CONNECTICUT																																
BRIDGEPORT	7	1004.0	1010.7	37	23	29.9	- 0.6	50	5	13	23	0	27	19	66	2.24	- 0.72	0.58	11	0	10.8	6	16.0	31	44*	32	5	10	8	11	5.4	
HARTFORD	169	1002.8	1009.0	35	17	25.9	- 1.2	46	26	- 1	23	0	28	15	63	3.43	0.49	1.34	11	0	22.0	14	9.4	31	33	NW	5	7	11	11	5.9	64
NEW HAVEN	6	1008.4		38	21	29.3	- 0.3	50	5	13	28	0	27			2.66	- 0.53	0.77	12	0	15.0	9	10.2		33	W	5	9	8	12	5.6	66
DELAWARE																																
WILMINGTON	78	1008.6	1011.9	39	24	31.6	- 2.2	55	5	11	23	0	26	21	65	3.37	0.42	1.01	10	1	14.9	6	12.1	31	31*	28	8	10	8	11	5.6	
DIST.OF COLUMBIA																																
WASHINGTON U	72			42	29	35.6		61	5	19	23	0	24			3.36	0.72	0.93	10		0.0	0										
WASH NATL AP	14	1007.8	1012.3	45	29	36.9	- 0.9	64	5	19	23	0	23	22	58	3.38	0.91	0.91	10	0	11.7	8	11.1	34	36	NW	16	10	8	11	5.5	61
FLORIDA																																
APALACHICOLA U	13	1014.4		58	44	51.0	- 5.8	65	6+	35	23+	0	0			6.47	2.56	2.85	14	3	0.0	0	8.9					10	9	10	5.4	
DAYTONA BEACH	31	1014.8	1016.6	65	48	56.4	- 4.2	80	15	35	24	0	0	47	73	2.65	- 0.10	0.73	14	3	0.0	0	10.6	30	40*	26	18	7	8	14	6.5	
FORT MYERS	13	1015.9		72	52	62.0	- 3.2	83	27+	38	24	0	0			3.30	1.09	2.23	9	0	0.0	0	11.6		37*	29	8	11	9	9	5.1	
JACKSONVILLE	24	1014.7	1016.0	62	43	52.4	- 5.1	77	15	29	24	0	1	41	69	6.55	3.64	3.84	13	1	0.0	0	10.6	27	41	W	6	9	10	10	6.0	67
KEY WEST	5	1015.0	1016.2	73	62	67.7	- 2.7	81	18+	54	12	0	0	59	75	1.38	- 0.60	0.85	5	0	0.0	0	12.8	36	34	NW	8	12	8	9	4.8	67
LAKELAND U	214			67	48	57.4	- 5.7	80	15	37	12	0	0			4.17	1.66	0.96	13	3	0.0	0	9.0					9	9	11	5.9	55
MIAMI BEACH	9			73	59	66.1	- 3.5	86	16	46	21+	0	0			2.29	0.64	1.33	7		0.0	0	14.2	5				10	12	7	4.8	62
MIAMI	7	1014.9	1016.2	75	57	65.7	- 2.2	87	28	43	9	0	0	57	74	2.21	0.34	0.93	7	0	0.0	0	9.0	32	38*	30	8	8	11	10	5.6	
ORLANDO	106	1011.9	1016.5	68	49	58.3	- 3.6	81	15	39	24+	0	0	47	72	3.42	1.00	0.88	10	1	0.0	0	11.2	31	40*	30	18	7	10	12	6.0	
PENSACOLA	13			57	39	48.0	- 8.1	68	13	27	23	0	5			6.78	2.34	1.85	13	2	0.0	0	9.1	35	35	W	19					45
TALLAHASSEE	58	1014.0	1016.8	60	38	49.0	- 6.6	68	25+	24	24	0	10	39	72	11.50	7.32	5.60	16	2	T	0	10.3	36	37*	28	19	7	12	10	5.9	
TAMPA	19	1015.2	1016.9	67	47	57.1	- 5.6	77	15	33	12	0	0	47	72	5.37	2.53	1.55	13	2	0.0	0	13.1	32	40*	32	8+	7	8	14	6.3	55
WEST PALM BEACH	15	1015.7	1016.8	73	52	62.8	- 4.8	87	28	38	24	0	0	54	76	4.36	2.01	2.77	8	0	0.0	0	10.7	32	32*	24	28	9	12	8	5.3	
GEORGIA																																
ATHENS	803	985.6	1015.2	51	31	41.1	- 5.0	63	10	19	12	0	19	29	65	5.18	0.48	1.32	9	1	T	0	9.3	29	24*	30	28+	8	9	12	5.9	
ATLANTA	1005	972.5	1015.7	49	32	40.3	- 6.2	60	10	21	23	0	17	28	67	4.17	- 0.34	1.18	12	0	0.3	T	9.1	29	31	W	19+	7	5	17	6.6	56
AUGUSTA	143	1008.5	1015.4	55	33	43.6	- 5.7	66	10	21	24	0	14	31	65	4.84	1.32	1.77	12	0	0.0	0	9.0	24	37*	27	28	7	11	11	5.9	
COLUMBUS	385	1001.5		54	34	44.1	- 5.6	65	10	23	24+	0	11			5.37	0.74	1.49	12	1	0.0	0	10.7		29*	31	28+	8	6	15	6.7	
MACON	356	1002.2	1016.1	55	36	45.2	- 5.9	65	10	24	23	0	9	32	64	5.71	1.45	1.74	12	0	T	T	10.0	30	35	W	19	10	5	14	6.1	53
ROME	637	992.3		49	28	38.4	- 6.0	61	10	16	12	0	21			4.98	- 0.32	1.46	7	0	0.3	0						8	9	12	6.0	
SAVANNAH	48	1013.2	1015.7	59	37	47.8	- 5.3	72	18	27	12	0	6	38	71	7.92	4.24	3.46	15	1	0.0	0	12.2	27	38	NW	28	7	10	12	6.2	60
THOMASVILLE U	283			58	40	48.6	- 6.7	70	15	29	23	0	6			7.86	3.87	3.20	13	1	T	T										
HAWAII																																
HILO	31	1016.3	1018.2	78	63	70.2	- 0.4	80	3+	60	28+	0	0	62	79	18.22	5.28	3.75	27	5	0.0	0	9.1	27	26*	6	27	3	10	16	7.2	49
HONOLULU	7	1017.7	1018.1	82	68	74.7	2.3	84	23+	64	19+	0	0	59	60	0.52	- 2.78	0.21	8	0	0.0	0	11.1	6	32	NE	14	12	14	3	4.2	81
KAHULUI	44	1014.3	1017.4	81	66	73.3	1.6	85	1	59	17	0	0	61	68	0.35	- 2.19	0.10	8	0	0.0	0	13.3	7	32	NE	29	15	12	2	3.7	78
LIHUE	115	1013.5	1019.3	79	67	72.9	2.2	81	22+	62	5	0	0	62	70	1.73	- 3.59	0.74	16	0	0.0	0	13.7	5	27	NE	13	13	10	6	4.8	68
IDAHO																																
BOISE	2838	926.4	1026.2	34	18	26.3	- 8.2	44	18	10	6	0	29	21	81	0.19	- 1.14	0.08	5	0	2.1	2	7.5	14	25	NW	24+	10	11	8	4.9	86
IDAHO FALLS 42NW R	4790			24	- 9	7.4	-11.5	35	11+	-27	26	0	29			0.09	- 0.40	0.05	3		0.0	0										
IDAHO FALLS 46W R	4933	850.8		26	- 7	9.9	-10.5	37	11	-18	28	0	29			0.22	- 0.55	0.07	4	0	2.6	8	3.1		23A	N	19					
LEWISTON	1413	970.8		46	27	36.8	0.9	53	17	19	25	0	22			0.21	- 0.76	0.11	6	0	2.1	1						7	7	15	6.4	
POCATELLO	4444	866.6	1026.6	29	5	16.9	-10.3	40	10	- 9	15	0	29	12	79	0.34	- 0.58	0.14	5	0	5.0	8	8.6	24	35	SW	19	6	10	13	6.7	48
ILLINOIS																																
CAIRO U	314	1002.5		47	30	38.6	- 2.1	60	2	20	22	0	21			2.41	- 1.26	1.00	8	0	0.2	T	8.6	N	28	SW	29	11	7	11	5.3	63
CHICAGO O HARE	658	989.1	1014.5	36	17	26.6	0.4	55	5	2	22	0	29	18	70	0.52	- 0.99	0.22	7	0	5.9	3	11.0	21	35*	22	29	13	3	13	5.7	
CHICAGO MIDWAY	610	991.4	1015.0	37	21	28.8	1.1	55	5	9	24	0	29	19	67	0.57	- 1.03	0.25	8	0	6.4	3	11.1	20	32	SW	29	13	2	14	5.6	57

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station ⊘	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 90°F. or above	No. of days: Min. 32°F. or below	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .01 inch or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile: Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.				°F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
ILLINOIS																																
MOLINE	582	992.7	1015.6	36	18	27.0	1.3	53	5	2	27	0	29	19	74	0.73	-0.62	0.34	5	0	5.5	3	9.9	31	30	SW	29	12	5	12	5.4	57
PEORIA	652	993.4	1016.5	37	19	28.1	-0.3	52	29+	6	26	0	29	21	74	0.54	-1.17	0.34	9	0	6.2	4	8.8	18	26	S	29	12	1	16	5.7	59
ROCKFORD	728	986.1	1014.3	36	16	25.7	1.3	53	5	-1	27	0	29	18	71	0.50	-0.94	0.35	4	0	6.5	5	10.2	21	28*	23	29	14	3	12	5.1	
SPRINGFIELD	588	991.7	1015.8	38	20	29.1	-2.5	54	5	2	26	0	29	23	76	1.27	-0.55	0.44	9	0	13.6	6	11.4	30	36	S	29	12	4	13	5.3	62
INDIANA																																
EVANSVILLE	381	999.7	1016.0	45	23	33.8	-3.8	59	25+	12	11	0	27	23	68	1.57	-1.61	0.64	8	0	3.2	3	6.8	30	25	NW	28+	10	5	14	5.8	52
FORT WAYNE	791	982.4	1014.7	35	17	25.7	-2.6	52	5	-5	27	0	26	19	74	1.12	-1.12	0.31	12	0	11.6	5	9.7	26	28	W	23	8	7	14	6.1	65
INDIANAPOLIS	793	984.1	1015.0	38	20	29.0	-2.1	53	5	7	24	0	28	21	74	2.01	-0.27	0.74	15	0	12.7	6	9.2	30	26	W	7	7	11	11	5.8	65
SOUTH BEND	768	985.3	1014.2	35	20	27.3	0.5	52	5	5	27	0	28	19	70	1.03	-0.85	0.29	16	0	14.4	4	10.1	21	23*	24	26+	8	3	18	6.5	
IOWA																																
BURLINGTON	694	989.8	1016.3	38	19	28.5	0.7	53	5	5	26	0	29	20	73	1.06	-0.33	0.33	8	0	11.9	6	11.5	21	32	NW	6	12	3	14	5.7	62
DES MOINES	948	983.8	1016.0	36	16	26.3	1.9	55	29	4	24+	0	29	18	74	0.28	-0.82	0.11	6	0	4.1	1	11.2	33	44	S	29	11	7	11	5.6	64
DUBUQUE	1065	988.7		35	16	25.7	3.7	52	5	1	24	0	29			0.28	-1.12	0.20	4	0	3.8	3			37*	22	29	12	5	12	5.6	
SIOUX CITY	1095	973.1	1015.9	39	17	27.9	5.7	54	29+	3	23	0	29	18	69	0.30	-0.59	0.09	7	0	3.2	1	10.8	33	42	NW	6	10	7	12	5.9	66
WATERLOO	868	981.4	1014.5	38	12	25.0	3.6	57	29	-6	27	0	29	15	70	0.21	-0.71	0.12	4	0	0.8	T	10.4	32	35*	21	29	12	8	9	5.2	
KANSAS																																
CONCORDIA	1470	964.6	1016.0	44	20	31.8	0.2	60	1	7	26	0	27	20	65	0.44	-0.47	0.19	6	0	2.3	2	14.0	18	43	S	29	13	4	12	5.1	69
DODGE CITY	2594	925.8	1016.6	42	21	31.8	-3.2	63	1	10	7	0	29	21	68	0.57	-0.13	0.40	6	0	3.3	2	13.4	35	42	S	11	8	8	13	6.0	65
GOODLAND	3645	885.5	1016.4	40	16	28.0	-2.9	64	1	4	26	0	29	18	72	0.75	0.24	0.31	7	0	10.3	5	15.5	35	45*	34	8	10	5	14	5.8	
TOPEKA	877	979.4	1016.3	46	22	34.3	1.2	61	2+	10	27+	0	26	21	62	0.29	-0.76	0.17	3	0	2.0	1	13.6	32	45	NW	6	12	7	10	5.1	65
WICHITA	1321	965.9	1016.0	47	25	36.1	-0.2	60	1	14	26+	0	24	23	63	0.53	-0.39	0.29	3	0	1.5	T	13.5	36	49	S	29	10	10	9	5.1	65
KENTUCKY																																
COVINGTON	869	981.7	1014.4	40	20	30.2	-2.9	54	25+	7	24	0	28	22	73	1.98	-0.93	0.79	13	0	6.7	1	8.7	29	23*	34	16	8	6	15	6.4	
LEXINGTON	979	977.9	1015.1	41	23	32.0	-3.8	57	5	2	12	0	27	23	71	2.52	-0.90	0.77	14	0	12.0	6	9.3	30	24*	24	6	10	5	14	5.9	
LOUISVILLE	474	997.1	1015.2	43	23	33.4	-2.4	60	5	10	12	0	28	24	70	2.45	-0.84	0.89	13	0	7.7	4	8.5	27	28	NW	28+	8	9	12	6.1	54
LOUISIANA																																
ALEXANDRIA	92	1012.8	1017.6	58	34	45.7	-7.1	71	10	19	22	0	15	34	67	2.48	-2.49	1.05	7	0	T	0	6.7	31	24*	25	5	11	7	11	5.7	
BATON ROUGE	64	1013.9	1017.0	60	40	49.5	-5.9	69	10	25	23	0	4	36	63	5.21	0.79	2.06	8	3	0.0	0	9.9	9	29*	31	15	9	9	11	5.8	
LAKE CHARLES	14	1015.8	1017.4	57	39	48.1	-8.2	68	10	28	22+	0	5	38	70	3.05	-1.46	1.00	10	0	T	0	9.8	36	25*	33	15	9	6	14	6.2	
NEW ORLEANS	3	1014.7	1017.0	59	40	49.8	-7.3	75	13	26	23	0	4	42	76	5.35	1.38	1.85	11	1	0.0	0	9.4	7	30*	24	5	9	6	14	6.1	
NEW ORLEANS AUDUBON	6	1009.7		59	43	51.2	-6.5	72	15+	31	23	0	1			5.34	0.99	1.84	13	1	0.0	0	6.4	NE	18	SW	5	11	7	11	5.6	57
SHREVEPORT	252	1008.0	1017.6	55	38	45.6	-4.7	68	10	24	22	0	8	33	66	2.74	-1.35	1.33	9	0	T	0	11.5	30	32*	28	15	9	10	10	5.6	62
MAINE																																
CARIBOU	624	981.1	1004.9	25	7	15.9	3.4	37	20	-10	11+	0	29	9	70	0.56	-1.46	0.23	8	0	10.1	10	12.4	31				9	5	15	6.2	
PORTLAND	61	1003.0	1007.1	34	12	23.0	0.2	45	5	-6	11+	0	29	15	69	2.66	-1.14	1.08	9	0	17.8	11	10.8	32	43	NW	3	9	8	12	5.9	66
MARYLAND																																
BALTIMORE	146	1007.5	1012.2	42	25	33.2	-2.5	59	26+	14	23	0	25	18	57	4.36	1.47	1.27	9	0	18.2	7	10.3	28	44	S	6	13	5	11	5.4	61
BALTIMORE U	14			42	29	35.7	-2.1	59	5	19	23	0	23			4.51	1.53	1.25	11		0.0	0										
MASSACHUSETTS																																
BLUE HILL OBS R	629	982.4		34	18	26.3	-1.1	45	26	7	25	0	29			5.33	1.60	1.62	11		32.2	16	17.8	NW	64	NW	3					61
BOSTON	15	1003.1	1008.0	36	22	29.1	-1.2	47	26+	13	25+	0	26	17	62	4.67	1.35	1.42	11	2	23.2	13	15.1	31	40	34	16	10	7	12	5.4	68
NANTUCKET	43	1006.9	1007.5	37	25	30.6	-0.8	47	5	15	18+	0	26	21	69	5.60	1.84	2.06	13	0	24.9	12	16.6	30	66	NW	16	8	7	14	6.5	53
PITTSFIELD	1170			31	9	20.3	-2.0	40	26	-10	28	0	29			1.64	-0.87	0.58	12		31.8	25										
WORCESTER	986	969.4	1007.4	32	16	23.9	-1.0	44	26	3	25	0	29	12	62	3.54	0.62	1.25	10	0	27.3	22	13.6	28	35*	30	2	9	8	12	5.7	
MICHIGAN																																
ALPENA	689	988.9		32	11	21.9	3.3	51	29	-7	24	0	29			0.36	-1.25	0.24	8	0	5.7	2	8.1	SW#	33	SW	29	10	6	13	6.1	68
DETROIT	619	985.9	1013.5	36	22	28.9	1.7	49	5	10	27	0	26	19	67	0.52	-1.56	0.14	9	0	5.1	1	11.6	22	32	W	26	11	3	15	6.1	57
DETROIT M WAYNE CO	633	989.1	1013.9	34	18	25.9	-1.2	48	5	2	22	0	28	17	69	0.68	-1.27	0.16	11	0	7.7	2	7.4	20				8	6	15	6.2	
DETROIT WILLOW RUN	711	984.3	1013.6	35	19	27.0	-0.4	48	5	9	27	0	28	21	76	0.61	-1.34	0.28	8	0	6.4	2	11.1	21	32*	25	23	8	5	16	6.3	
FLINT	766	985.2	1014.0	35	17	25.8	3.6	50	29	4	22	0	29	17	67	0.55	-1.21	0.23	11	0	7.2	3	10.7	21	30*	27	7	8	6	15	6.5	
GRAND RAPIDS	689	987.1	1013.6	33	17	25.0	0.5	48	5	1	27	0	29	19	77	0.73	-1.02	0.35	9	0	11.6	6	10.6	20	30	SW	26	7	4	18	7.0	50

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station ∅	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 90°F. or above	No. of days: Min. 32°F. or below	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .01 inch or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Wind: Fastest mile: Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days (sunrise to sunset): Partly cloudy, 4-7	No. of days (sunrise to sunset): Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.				°F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
MICHIGAN																																
LANSING	852	980.3	1013.4	35	17	25.8	1.6	49	29+	2	22	0	29	20	75	0.47	- 1.48	0.20	10	0	5.4	3	7.4	22	34	SW	29	8	5	16	6.4	52
MARQUETTE U	677	983.7		31	16	23.5	3.8	53	29	- 1	27	0	29			1.42	- 0.23	0.61	13	0	21.7	24	10.0	W#	34	SW	11	4	7	18	7.4	52
MUSKEGON	627	990.3	1014.1	35	21	28.2	2.5	49	5	6	11+	0	29	23	77	0.83	- 0.97	0.25	9	0	20.4	5	13.2	22	29*	21	29	6	3	20	7.6	
SAULT STE MARIE	721	987.8	1011.5	27	7	17.1	1.4	42	29	-15	24	0	29	12	79	0.94	- 0.56	0.22	14	0	19.0	25	10.4	36	28*	22	29	6	5	18	7.2	58
MINNESOTA																																
DULUTH	1426	970.4	1013.3	27	6	16.4	5.6	44	29	-13	10	0	29	9	69	0.57	- 0.39	0.20	12	0	6.8	13	10.6	34	38	W	6	8	9	12	6.2	62
INTERNATIONAL FALLS	1179	969.7	1012.8	25	- 2	11.5	4.4	40	29+	-26	26	0	29	5	72	0.63	- 0.08	0.32	6	0	6.8	15	10.9	36	29*	27	4	10	7	12	5.5	
MINNEAPOLIS	822	979.7	1014.5	34	14	23.9	8.2	54	29	1	27+	0	29	12	63	0.06	- 0.72	0.02	3	0	1.0	T	9.7	34	32	SW	11	12	7	10	5.0	73
ROCHESTER	1297	976.2	1014.5	35	13	24.1	7.9	56	29	- 2	27	0	29	13	66	0.04	- 0.76	0.02	3	0	0.8	T	13.9	32	39*	21	29	9	11	9	5.6	
ST CLOUD	1034	975.2		31	9	20.1	6.7	48	29	- 5	23+	0	29			0.04	- 0.76	0.03	2	0	0.5	1						11	9	9	5.0	
MISSISSIPPI																																
JACKSON	305	1004.2	1016.6	55	33	44.4		66	10	17	23	0	12	33	67	2.32	-	0.90	9	0	T	0	9.6	12	23*	14	5	9	7	13	5.8	
MERIDIAN	292	1002.9	1017.3	55	31	42.9	- 7.7	69	10	16	23	0	19	33	71	4.08	- 1.01	1.27	9	0	0.0	0	7.4	18	23*	28	15	7	7	15	6.4	
VICKSBURG U	234	1006.9		55	38	46.2	- 5.6	67	10	26	22	0	5			3.27	- 2.04	0.90	8	1	T	0	9.1		27	W	5	8	7	14	5.9	53
MISSOURI																																
COLUMBIA	778	985.9	1015.2	43	24	33.2	- 0.6	57	2	4	11	0	27	22	67	1.64	- 0.17	0.58	6	0	13.5	6	11.1	32	31	NW	6	11	6	12	5.3	55
KANSAS CITY	742	979.6	1015.5	45	28	36.2	0.4	60	2	15	26	0	22	23	62	1.50	0.26	0.62	8	0	8.5	4	9.9	20	31	SW	29	11	7	11	5.3	65
ST JOSEPH	809	980.2		43	21	32.1	1.0	56	1	5	26	0	26			0.61	- 0.48	0.31	7	0	5.4	2	10.1	32	29*	19	29	11	7	11	5.2	
ST LOUIS	535	994.6	1016.0	43	26	34.3	- 0.4	57	25	13	11	0	27	21	61	2.30	0.26	0.68	9	0	9.1	6	9.6	30	31	SW	29	12	3	14	5.5	55
ST LOUIS RFC	465			43	28	35.7	- 0.7	57	25	20	22	0	23			2.46	0.25	0.88	10		6.5	4										
SPRINGFIELD	1265	966.9	1015.8	47	25	35.9	- 1.2	62	2	12	24+	0	25	23	63	1.67	- 0.45	0.96	8	0	2.3	1	11.2	16	27	SE	3	10	9	10	5.4	67
MONTANA																																
BILLINGS	3567	889.7	1016.8	41	22	31.4	5.7	57	10	3	25	0	29	15	54	0.35	- 0.25	0.24	5	0	5.1	3	15.6	24	43	NW	5	1	11	17	7.6	57
GLASGOW	2277	938.0		39	17	27.7	14.1	51	28	2	23	0	29			0.19	- 0.22	0.08	5	0	1.9	1						2	7	20	7.8	
GREAT FALLS	3662	887.4	1018.6	42	24	33.0	9.2	58	4	5	24	0	26	16	54	0.52	- 0.22	0.17	8	0	5.7	2	18.5	23	39	W	9	5	5	19	7.6	50
HAVRE	2582	924.6		42	21	31.8	15.5	56	4	10	24+	0	28			0.11	- 0.32	0.11	1	0	1.4	1	13.3	SW#	49	W	5	6	4	19	7.0	50
HELENA	3893	874.0	1021.2	36	18	27.2	4.0	46	4	- 1	25+	0	28	17	64	0.27	- 0.16	0.09	7	0	6.3	3	10.1	27	37	W	4	5	5	19	7.4	51
KALISPELL	2965	914.3		37	11	23.9	- 0.6	46	4	- 5	25	0	29			0.50	- 0.50	0.20	10	0	6.7	14	5.4					2	11	16	7.3	
MILES CITY	2629		1016.2	38	17	27.5	7.2	51	28	3	23	0	29	20	73	0.57	0.20	0.30	7	0	5.5	4	13.7	30	40*	28	5					
MISSOULA	3190	905.4	1024.3	33	12	22.6	- 2.4	44	4	-10	25	0	29	17	77	0.51	- 0.36	0.23	7	0	8.9	9	5.7	34	45	W	4	3	6	20	7.8	52
NEBRASKA																																
GRAND ISLAND	1841	947.9	1016.5	38	17	27.3	1.2	60	1	2	16	0	29	18	71	0.92	0.18	0.43	7	0	8.5	4	12.4	18	35*	35	6	7	10	12	5.8	
LINCOLN U	1150			41	22	31.3	2.6	57	29+	8	26	0	27			0.76	- 0.33	0.55	8	0	2.2	1	10.9	NW#	48	S	29	9	9	11	5.5	63
NORFOLK	1544	958.1		34	15	24.6	1.7	53	1	- 4	16	0	29			0.73	- 0.05	0.34	8	0	9.3	4						10	5	14	5.7	
NORTH PLATTE	2779	913.2	1015.9	38	12	24.9	- 3.0	54	29	- 7	26	0	29	16	69	0.62	0.10	0.36	6	0	8.6	5	11.7	31	50	N	6	8	8	13	5.8	62
OMAHA	978	974.6	1015.8	42	19	30.5	4.0	58	29	4	26	0	28	18	62	0.36	- 0.59	0.11	9	0	3.5	1	10.4	33	37	N	6	7	10	12	5.9	66
OMAHA N OMAHA AP	1323	965.8		39	19	29.2	4.4	58	29	4	26	0	29			0.34	- 0.66	0.07	10	0	2.4	1						8	8	13	5.8	
SCOTTSBLUFF	3950	876.6	1017.3	39	13	26.2	- 2.8	51	1	- 3	26	0	29	15	65	0.25	- 0.15	0.12	6	0	4.1	2	15.6	30	46*	35	19	7	8	14	6.6	
VALENTINE	2587	919.9		39	15	27.2	4.2	55	29	- 2	23	0	29			0.23	- 0.33	0.17	4		3.0	2	12.2	N#				6	11	12	6.4	66
NEVADA																																
ELKO	5075	848.7	1026.6	35	5	20.1	- 7.9	43	1	- 8	6	0	29	13	74	0.10	- 0.79	0.04	3	0	3.0	8	5.3	27	23*	34	24	16	10	3	3.6	
ELY	6257	809.6	1022.5	37	8	22.3	- 4.3	53	10	- 7	3	0	29	13	70	0.07	- 0.63	0.06	2	0	1.2	1	9.1	19	37	N	19	20	4	5	3.0	85
LAS VEGAS	2162	952.8	1020.3	59	32	45.6	- 2.2	71	19	23	15	0	19	10	25	0.02	- 0.42	0.02	1	0	0.0	0	9.9	26	38*	34	5	24	3	2	1.8	93
RENO	4404	867.3	1025.3	51	18	34.2	- 1.4	62	10	8	26	0	29	16	53	0.01	- 1.01	0.01	1	0	1.0	1	5.8	13	29	W	28+	20	9	0	2.0	98
WINNEMUCCA	4299	873.0		46	18	31.9	- 0.4	61	10	5	26	0	29			0.11	- 0.83	0.10	2	0	2.4	2	7.0	18	25	W	28	19	6	4	3.2	70
NEW HAMPSHIRE																																
CONCORD	339	996.9	1008.0	34	11	22.4	- 0.3	44	5	-12	28	0	29	12	66	1.93	- 0.55	0.96	8	0	19.1	11	9.6	31	35*	31	2	12	6	11	5.4	52
MT WASHINGTON OBS	6262	786.8		12	- 5	3.4	- 2.2	24	12+	-21	3	0	29			5.64	0.43	1.62	17	0	38.5	9	42.3	W	141Y	NW	3	7	7	15	6.8	43
NEW JERSEY																																
ATLANTIC CITY	58	1009.3	1011.4	41	25	33.2	- 1.5	55	5	14	23	0	27	22	66	4.32	1.19	1.36	12	0	12.0	5	12.1	32	37*	8	18	10	5	14	5.7	55
ATLANTIC CITY U	10			41	28	34.6	- 1.1	55	5	19	23	0	25			4.04	0.66	1.35	11		0.0	0	18.2		54*	NW	2					
NEWARK	11	1009.6	1010.9	39	25	31.9	- 1.8	53	5	16	22	0	26	19	61	2.59	- 0.21	0.59	13	0	15.0	5	13.1	32	35*	6	19+	10	9	10	5.8	

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 90°F. or above	No. of days: Min. 32°F. or below	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .01 inch or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile: Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	F.	°F.		°F.				F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
NEW JERSEY																																
TRENTON U	56	1004.0		38	25	31.6	- 1.8	52	5	15	23	0	26			3.14	0.55	1.04	12	1	11.5	5	10.9	NW#	35	NW	16	9	9	11	5.7	61
NEW MEXICO																																
ALBUQUERQUE	5310	846.3	1017.2	40	18	29.1	-10.8	52	29+	1	7	0	29	14	59	1.12	0.74	0.45	6	0	8.2	4	8.6	35	52	E	20	16	4	9	3.6	75
CLAYTON	4969	841.7		40	18	29.1	- 6.9	57	1	4	7	0	29			0.56	0.19	0.37	4	0	7.9	7						12	8	9	4.6	
RATON	6379	800.7		41	8	24.7	- 8.0	59	11+	- 5	7	0	29			0.50	0.08	0.21	7	0	5.7	3						12	9	8	4.6	
ROSWELL	3619	891.6		51	19	35.3	- 6.8	65	9	2	21	0	29			1.25	0.83	0.58	5	0	11.3	5	8.8		40	W	27	21	2	6	3.4	82
SILVER CITY	5373	833.0		52	19	35.5	- 7.9	65	10	6	21	0	29			0.05	- 0.64	0.03	2		0.8	1						17	6	6	3.1	
NEW YORK																																
ALBANY	277	1007.2	1010.9	32	13	22.3	- 1.4	43	5	- 8	28	0	28	13	67	1.63	- 0.57	0.73	9	0	21.4	15	9.4	27	35	W	2	9	7	13	6.0	68
BINGHAMTON	1590	949.0	1010.2	26	12	18.9	- 4.9	37	5+	0	25+	0	29	15	82	2.00	- 0.18	0.67	18	0	27.5	16	11.1	30	34	NW	16	2	12	15	7.2	51
BUFFALO	705	982.8	1012.0	31	16	23.5	- 0.6	43	6	1	11	0	28	16	74	1.09	- 1.63	0.32	15	0	14.6	7	11.5	24	38	SW	24	3	8	18	7.6	49
NEW YORK U	132	998.9		39	27	32.9	- 0.5	52	5	19	25+	0	25			2.93	0.09	0.88	14	0	14.1	6	11.3	W#	38	NE	19	13	6	10	4.9	57
NEW YORK LA GUARDIA	19	1008.7	1010.4	37	28	32.6	- 1.0	50	5	20	23+	0	25	18	58	2.39	- 0.70	0.93	14	0	8.8	4	14.9	31	38	NE	6	8	11	10	5.6	
ROCHESTER	543	992.4	1012.4	33	15	24.0	- 0.9	43	5	1	28+	0	28	16	68	0.89	- 1.64	0.21	12	0	13.1	4	11.9	26	33	W	5	5	8	16	6.8	57
SCHENECTADY	217			32	16	23.8	- 0.8	42	5	- 4	28	0	28			1.26	- 1.03	0.44	8		18.9	12						17	6	6	4.0	
SYRACUSE	417	988.3	1011.2	32	15	23.7	- 0.6	42	5	- 1	28	0	28	16	70	1.13	- 2.00	0.28	14	0	16.1	7	10.2	25	34	N	16	2	13	14	7.3	50
NORTH CAROLINA																																
ASHEVILLE U	2203	933.2		43	26	34.7	- 5.9	56	4	14	23	0	25			3.58	0.54	0.88	14	0	13.9	3	8.9	NW#	31	NW	16	8	7	14	6.1	48
CAPE HATTERAS R	7	1011.8	1012.6	52	36	44.2	- 2.3	65	16	21	24	0	9	35	70	5.86	1.93	1.41	13	0	T	T	13.0	25	42	SSW	16	11	6	12	5.3	61
CHARLOTTE	735	985.4	1014.0	51	29	40.1	- 4.1	59	1	20	17	0	21	25	60	4.29	0.74	1.47	13	0	0.2	T	8.6	24	33	SW	6	13	6	10	5.2	61
GREENSBORO	891	981.1	1013.7	48	28	37.7	- 3.3	62	5	17	23	0	24	25	65	4.09	0.79	1.20	12	0	3.3	2	9.2	22	37	NW	16	13	5	11	5.3	60
RALEIGH	433	999.2	1013.3	50	29	39.4	- 3.6	64	5	16	4	0	23	27	66	4.11	0.88	0.92	13	0	3.1	T	8.9	22	24*	12	18	11	8	10	5.2	64
WILMINGTON	30	1011.4	1014.3	55	37	45.8	- 2.9	66	16+	26	4	0	8	34	67	6.17	2.75	1.92	15	0	T	0	10.5	27	42	S	15	14	5	10	5.1	65
WINSTON SALEM	967	977.6	1013.4	49	30	39.3	- 2.4	62	5	19	23	0	21	26	63	4.32	0.84	1.21	11	0	3.1	1	9.2	24	25*	32	16	11	7	11	5.6	
NORTH DAKOTA																																
BISMARCK	1647	952.0	1014.8	36	8	21.9	8.4	51	28	-12	26	0	29	13	69	0.22	- 0.21	0.11	7	0	2.8	2	9.5	32	34	NW	6	1	10	18	7.6	59
FARGO	900	978.6	1014.4	30	8	18.9	8.2	48	29	-13	26+	0	29	11	70	0.27	- 0.24	0.10	5	0	6.2	3	12.4	34	45	N	6	9	4	16	6.4	66
WILLISTON	1899	944.1		37	12	24.4	12.0	50	28	-13	26	0	29			0.24	- 0.24	0.12	6	0	2.4	1	11.2	SW#	45	N	5	2	12	15	7.2	57
OHIO																																
AKRON	1209	974.5	1013.7	33	17	25.0	- 3.7	50	5	3	22	0	29	16	70	1.81	- 0.49	0.57	18	0	16.5	8	10.0	27	23*	29	23	5	10	14	6.7	
CINCINNATI OBS	761			41	24	32.4	- 2.7	57	5	14	24	0	27			1.56	- 1.24	0.46	15		5.6	1	6.7	W#	21	NW	1					45
CINCINNATI U	553	991.1		42	26	34.3	0.0	59	5	18	24	0	26			1.42	- 1.47	0.55	13		5.5	0										
CLEVELAND	777	984.7	1013.4	33	18	25.5	- 2.1	46	5	3	22	0	28	19	76	1.49	- 0.84	0.42	15	0	15.7	6	9.0	18	26	W	8	5	9	15	7.0	49
COLUMBUS	812	983.8	1014.7	36	19	27.7	- 3.4	53	5	7	23	0	27	21	75	1.68	- 0.63	0.53	11	0	11.3	3	8.7	29	27	NW	16	7	6	16	6.4	57
COLUMBUS U	724			38	24	30.6	- 2.2	55	5	12	24	0	27			1.54	- 0.65	0.76	11	0	8.8	3										
DAYTON	997	981.0	1014.4	39	21	30.0	- 0.9	55	5	9	24	0	28	23	76	1.52	- 0.80	0.58	10	0	12.5	3	10.5	27	26	W	1	10	6	13	5.7	58
MANSFIELD	1296			34	17	25.3	- 2.5	52	5	4	27+	0	29			1.33	- 1.27	0.60	13	0	16.1	5						5	9	15	6.8	
TOLEDO	676	987.8	1014.0	34	18	25.9	- 1.4	49	5	- 2	27	0	28	18	70	0.95	- 0.93	0.24	10	0	12.4	4	9.4	20	28	SW	7	8	6	15	6.4	66
YOUNGSTOWN	1178	969.3	1013.4	31	16	23.4	- 4.2	45	5	6	22	0	29	17	76	1.36	- 1.14	0.42	18	0	17.2	6	9.9	23	25*	25	8	6	6	17	7.0	
OKLAHOMA																																
OKLAHOMA CITY	1280	971.6	1016.3	49	28	38.5	- 2.8	64	2	18	26+	0	21	25	63	2.17	0.80	1.35	6	0	0.6	T	14.3	36	39	NW	15	13	8	8	5.0	68
TULSA	676	994.2	1016.5	52	27	39.4	- 1.2	66	2	16	22+	0	22	24	57	2.17	0.40	1.77	6	0	T	0	11.3	18	32	SW	29+	12	11	6	4.3	68
OREGON																																
ASTORIA	8	1025.3	1025.9	51	34	42.3	- 0.5	60	22	25	25	0	12	38	84	4.06	- 5.83	0.95	15	0	0.0	0	8.5	15	33*	20	29	7	6	16	6.6	
BURNS U	4151	877.9		39	15	27.0	- 2.7	49	18	7	12+	0	29			0.25	- 1.02	0.18	4	0	2.8	6						17	7	5	3.7	
EUGENE	361	1013.1		52	32	41.6	- 1.0	65	23	25	27+	0	17			0.86	- 4.11	0.24	10	0	0.0	0	6.4		25*	18	29	9	5	15	6.3	
MEACHAM	4050			36	22	29.2	0.1	49	23	14	25	0	28			2.69	- 1.31	1.04	13	0	26.6	37						7	7	15	6.6	
MEDFORD	1298	977.9	1027.1	52	23	37.9	- 2.2	67	22	18	27+	0	29	29	77	0.21	- 2.19	0.09	6	0	T	0	3.9	36	21*	24	14	13	8	8	4.9	
PENDLETON	1482	969.4	1024.6	51	31	41.1	3.7	64	23	24	25+	0	21	27	61	0.07	- 1.11	0.05	3	0	0.3	T	10.6	26	30*	26	23	11	7	11	5.4	
PORTLAND	21	1020.7	1026.6	50	31	40.1	- 1.9	60	22	23	7+	0	20	34	82	0.78	- 3.44	0.14	13	0	0.0	0	6.4	20	30	S	29	9	7	13	6.3	48
PORTLAND U	30			52	37	44.8	1.0	63	23	31	26	0	3			1.33	- 3.57	0.26	10		0.0	0										
ROSEBURG	505	1007.7		53	30	41.4	- 1.9	63	23	23	27+	0	20			1.04	- 3.17	0.32	7	0	T	0	3.5	N#	19	S	14	3	14	12	6.8	47
SALEM	195	1019.7	1027.2	50	31	40.3	- 1.6	60	23+	23	7	0	19	35	86	0.78	- 4.53	0.15	11	0	0.0	0	7.5	18	35*	18	29	8	7	14	6.1	

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

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State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 90°F. or above	No. of days: Min. 32°F. or below	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .01 inch or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile: Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.				°F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
OREGON																																
SEXTON SUMMIT R	3836	889.6		45	31	38.2	2.1	60	21+	22	5	0	18			0.81	- 3.31	0.33	7	0	9.6	4	10.8					14	7	8	4.1	
PACIFIC AREA																																
CANTON ISLAND	11	1007.3	1007.6	89	79	84.2	1.2	91	25	74	13	15	0	74	74	1.04	- 1.09	0.77	5	0	0.0	0	12.2	7	26*	2	12	5	11	13	6.5	
ENIWETOK	16	1010.8		85	77	81.1	0.2	87	28+	73	29+	0	0			1.08	- 0.76	0.20	14	0	0.0	0	19.2									
TAGUAC GUAM R	361	999.4		82	72	77.4	- 0.9	84	28+	70	8+	0	0			4.11	0.62	0.85	21		0.0	0	12.4	NE#	29	NE	8					63
JOHNSTON	7	1014.0	1014.7	79	72	75.8	- 1.2	80	23+	69	28+	0	0	68	74	1.18	- 0.35	0.38	15	0	0.0	0	18.4	8	35	W	8	5	22	2	5.0	61
KOROR R	94	1007.2	1009.8	85	75	79.7	- 0.6	88	22	72	12+	0	0	75	88	16.10	8.97	5.00	22	2	0.0	0	11.4	6	26	NE	3	0	0	29	10.0	57
KWAJALEIN	8	1009.7	1009.7	86	76	80.8	0.8	88	28	72	18	0	0	73	81	3.07	0.92	1.95	12	0	0.0	0	20.0	6	33*	9	18	5	2	22	8.1	
PONAPE R	123	1003.7	1008.0	86	77	81.6	1.1	88	27+	73	22+	0	0	73	78	19.76	10.02	6.42	21	1	0.0	0	11.9	6	23	E	26	0	0	29	9.7	49
TRUK MOEN ISLAND	5	1008.0	1008.1	85	77	80.7	0.0	86	21+	73	4	0	0	74	78	10.80	4.51	4.15	21	0	0.0	0	14.0	5	27	NE	14	0	0	29	9.7	42
WAKE	11	1015.0	1015.4	82	73	77.5	0.4	84	3+	69	8	0	0	65	67	0.61	- 0.74	0.22	6	0	0.0	0	13.1	6	24*	4	17+	10	11	8	5.4	
YAP R	53	1008.7	1009.5	84	76	80.0	- 0.4	86	1	72	7	0	0	74	84	6.47	1.83	1.41	22	0	0.0	0	16.3	4	37	22	7	0	0	29	10.0	86
PENNSYLVANIA																																
ALLENTOWN	376	998.2	1011.8	36	19	27.5	- 1.7	50	5	3	25	0	28	17	65	3.29	0.65	1.22	10	0	22.4	11	12.9	29	35*	32	16+	9	10	10	5.5	
ERIE	732	986.1	1013.2	33	17	24.8	- 1.6	43	6	1	11	0	29	19	78	1.39	- 0.93	0.41	12	0	19.7	6	13.9	18	32*	24	6	4	9	16	6.9	
HARRISBURG	335	998.1	1012.5	37	21	28.9	- 3.7	55	5	5	25	0	28	17	62	3.12	0.81	1.27	10	0	30.2	20	10.8	28	32	NW	16	8	9	12	5.9	59
PHILADELPHIA	5	1001.0	1011.6	40	24	31.8	- 1.4	57	5	13	23	0	27	20	63	2.83	0.03	0.71	12	0	12.4	6	11.6	31	31	NE	19	9	8	12	6.0	59
PITTSBURGH	1137	982.0	1013.1	35	19	27.0	- 2.2	52	5	6	23	0	27	18	69	1.73	- 0.46	0.65	16	0	13.7	7	10.0	26	29*	30	2	5	7	17	7.1	47
PITTSBURGH U	749			38	23	30.5	- 2.9	54	5	12	23	0	25			1.92	- 0.39	0.83	14		9.1	0										47
READING U	266	999.4		39	24	31.4	- 2.0	53	5	11	28	0	27			3.03	0.39	1.21	10	0	20.8	12	12.3	NW#	52	E	6	10	6	13	5.8	51
SCRANTON	940	976.3	1011.5	31	16	23.5	- 4.8	44	5	- 2	23	0	28	14	66	2.03	0.04	0.78	11	0	22.0	14	8.4	32	29	NW	2	6	9	14	6.5	55
WILLIAMSPORT	527	993.1	1012.7	36	17	26.8	- 2.4	51	5	0	25	0	28	16	65	3.11	0.60	1.51	9	0	25.2	18	9.6	27	26*	31	16	6	9	14	6.4	
RHODE ISLAND																																
BLOCK ISLAND	110	1003.7		36	23	29.5	- 1.4	45	6	14	11	0	26			3.54	0.25	1.41	13	0	12.1	4						10	8	11	5.6	
PROVIDENCE	55	1002.0	1008.3	37	19	27.9	- 1.8	47	5	8	22	0	27	16	63	3.15	0.05	0.88	11	0	14.8	8	13.4	29	35*	28	5	11	9	9	5.4	57
SOUTH CAROLINA																																
CHARLESTON	41	1013.2	1015.1	58	37	47.5	- 4.0	67	18+	26	4	0	9	35	67	6.32	3.03	2.16	15	0	0.0	0	10.5	27	47Y	W	28	8	10	11	5.8	59
CHARLESTON U	9			56	41	48.3	- 4.0	66	18	32	12	0	1			6.62	3.55	2.44	12		0.0	0	10.4		35	W	28					
COLUMBIA	217	1002.0	1015.1	55	32	43.7	- 4.7	64	15	23	24+	0	17	30	65	5.33	1.59	1.45	14	0	0.0	0	8.0	24	29*	23	9+	11	7	11	5.3	63
FLORENCE	146	1008.6	1014.4	55	33	44.0	- 4.8	65	16+	24	4	0	13	31	63	5.21	2.04	1.85	14	1	0.0	0	9.4	27	26*	26	6	14	4	11	5.2	
GNVLE SPARTANBURG	957	976.9	1014.6	51	31	40.7	- 4.8	63	1	21	12	0	19	27	62	4.67	0.60	1.30	9	0	1.2	T	9.6	25	37	NW	11	11	8	10	5.1	65
SOUTH DAKOTA																																
HURON	1282	966.5	1015.3	40	13	26.2	9.6	58	29	- 5	23	0	29	16	69	0.20	- 0.40	0.08	7	0	4.3	1	11.6	32	42	S	11	7	9	13	6.5	54
RAPID CITY	3165	898.5	1016.2	39	17	28.1	4.0	58	4	- 5	23	0	29	17	66	0.83	0.35	0.40	11	0	8.9	3	13.6	33	40	NW	18+	6	9	14	6.6	64
SIOUX FALLS	1420	961.8	1015.2	39	15	26.9	7.8	59	5	- 6	23	0	29	18	72	0.08	- 0.85	0.06	4	0	0.7	T	11.6	34	36*	35	6	8	7	14	6.1	
TENNESSEE																																
BRISTOL	1507	958.3	1014.1	44	25	34.6	- 5.4	59	5	13	29	0	25	23	66	4.11	0.55	1.30	17	2	11.0	3	6.1	27	32*	24	6	7	6	16	6.8	
CHATTANOOGA	670	987.8	1016.2	49	31	39.9	- 4.5	61	4	18	23	0	15	29	69	4.51	- 0.86	1.24	10	1	0.1	T	8.8	2	36	SW	6	8	5	16	6.6	46
KNOXVILLE	950	979.2	1015.7	45	28	36.1	- 7.0	56	4	17	23	0	24	25	66	4.09	- 0.72	1.23	14	0	5.2	3	8.5	24	40	SW	6	9	4	16	6.2	45
MEMPHIS	263	1001.5	1016.7	51	30	40.2	- 3.9	62	2	20	23+	0	21	31	73	3.50	- 1.19	1.08	10	1	T	T	9.3	29	29	NW	15	12	6	11	5.3	78
MEMPHIS U	271			49	34	41.4	- 3.3	62	2	25	22	0	11			3.26	- 1.29	1.13	9	0	T	T										
NASHVILLE	577	995.3	1015.6	47	27	37.2	- 4.8	61	4	15	23	0	24	28	73	3.26	- 1.25	0.92	9	0	4.2	4	8.8	31	33	NW	28	9	5	15	6.4	50
OAK RIDGE	905	981.3		45	26	35.4	- 5.7	58	4	13	23	0	24			4.33	- 1.47	1.53	13	1	3.1	2			41Y		6	8	8	13	6.0	
TEXAS																																
ABILENE	1759	953.4	1016.0	57	32	44.9	- 3.5	72	25	25	27	0	14	27	54	2.47	1.38	1.68	7	1	4.3	4	11.1	18	38	SE	14	16	6	7	3.8	74
AMARILLO	3607	886.3	1015.5	43	21	32.1	- 9.2	64	29	5	7	0	28	20	67	1.37	0.75	0.87	3	0	17.3	13	16.0	3	42	NW	15	13	7	7	4.6	70
AUSTIN	597	995.0	1017.4	59	38	48.4	- 5.4	76	10	29	22	0	5	35	65	1.47	- 1.11	0.73	11	1	4.0	1	10.6	36	34	NW	5	9	10	10	5.5	64
BROWNSVILLE	16	1013.2	1015.9	69	48	58.5	- 5.5	80	11	36	23	0	0	49	74	1.32	- 0.16	0.68	8	0	0.0	0	13.1	12	36	NW	21	9	5	15	6.7	50
CORPUS CHRISTI	43	1015.7	1017.0	65	42	53.7	- 6.7	79	10+	29	8	0	4	45	76	1.53	- 0.17	0.62	8	0	T	0	13.4	14	40	N	21	7	7	15	6.6	48
DALLAS	481	997.9	1017.1	55	35	44.9	- 4.6	67	9	25	22	0	12	30	60	1.25	- 1.30	0.53	7	1	0.3	T	12.5	34	35	NW	15	14	5	10	4.9	68
DEL RIO	1026	981.3		63	39	50.7		77	10	28	22	0	5			0.76		0.51	6	0	T	T			25	24	5	11	9	9	4.9	
EL PASO	3918	884.3	1014.3	56	25	40.8	- 8.3	67	11	15	22	0	22	9	29	T	- 0.41	T	0	0	T	T	9.2	29	43	NW	14	20	6	3	2.6	91
FORT WORTH	544	995.6	1017.2	55	33	43.8	- 5.4	66	9+	21	22	0	15	31	64	1.17	- 1.07	0.58	6	1	0.2	T	11.5	33	39*	30	15	14	5	10	4.7	

See footnotes at end of table

CLIMATOLOGICAL DATA

ENGLISH UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 90 F. or above	No. of days: Min. 32 F. or below	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .01 inch or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Wind: Fastest mile: Speed	Wind: Fastest mile: Direction	Wind: Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	No. of days (sunrise to sunset): Partly cloudy, 4-7	No. of days (sunrise to sunset): Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.				°F.	%	In.	In.	In.			In.	In.	M.p.h.		M.p.h.							%
TEXAS																																
GALVESTON U	7			57	46	51.5	- 5.3	65	10+	35	22	0	0			3.39	0.51	1.43	10		T	0	12.0		31	NE	24					53
HOUSTON U	41			59	45	52.0	- 5.1	72	10	33	22	0	0			3.36	0.15	1.38	12		0.0	0										
HOUSTON	50	1014.3	1017.1	59	40	49.4	- 6.4	74	10	27	22	0	4	39	71	4.97	1.53	2.16	10	1	T	T	11.5	32	28*	34	18+	9	4	16	6.3	58
LAREDO	500	1000.9	1016.3	68	45	56.5	- 5.2	81	10	32	8	0	1	39	59	1.35	0.46	0.94	8	0	0.0	0	10.9	13	25*	1	21+	7	9	13	6.2	
LUBBOCK	3243	901.5	1015.8	50	23	36.5	- 6.6	63	29+	6	21	0	29	21	61	0.16	- 0.41	0.08	2	0	3.3	2	15.2	36	43*	25	14	17	7	5	3.4	
MIDLAND	2854	913.8	1014.2	58	28	42.7	- 5.6	72	25	19	28+	0	24	24	57	0.27	- 0.33	0.10	4	0	0.4	T	12.5	18	32*	32	27+	13	14	2	4.0	
PORT ARTHUR	16	1015.2	1016.9	59	39	49.2	- 6.8	72	10	27	22	0	5	41	78	3.10	- 1.35	1.22	11	1	T	0	11.3	36	38	NE	24	10	4	15	6.1	52
SAN ANGELO	1903	947.2	1015.8	58	32	45.4	- 5.1	75	12	25	27+	0	17	28	58	1.27	0.37	0.71	6	1	0.8	1	10.3	16	30*	17	12	14	8	7	4.2	
SAN ANTONIO	792	991.7	1017.2	60	40	49.8	- 5.6	74	10	28	23	0	5	34	61	1.89	0.24	0.69	9	1	2.0	2	10.2	36	29	NW	5	10	4	15	5.8	58
VICTORIA	104	1012.4		61	42	51.8	- 6.2	76	10	30	22	0	1			2.49	0.15	1.01	8	3	T	0	12.6		44Y		21+	8	4	17	6.7	
WACO	500	995.3	1017.0	56	35	45.5	- 6.0	69	10	25	22	0	10	35	70	1.29	- 1.13	0.50	8	1	1.0	1	13.1	32	33*	30	15	13	5	11	4.9	
WICHITA FALLS	994	978.3	1016.4	55	31	42.9	- 3.9	68	2	21	27	0	18	30	66	1.30	- 0.08	1.01	5	1	1.7	0	12.0	30	35*	33	15	15	7	7	4.0	
UTAH																																
MILFORD	5028	845.6		41	11	25.7	- 4.0	59	10	- 2	15	0	29			0.38	- 0.32	0.21	6	0	4.4	3						18	5	6	3.6	
SALT LAKE CITY	4220	871.6	1025.2	36	16	25.8	- 6.7	48	10	2	14	0	29	17	73	0.35	- 0.83	0.14	7	0	8.0	3	8.2	14	26	S	24+	12	7	10	4.6	68
WENDOVER	4237	874.3		39	21	30.2	- 2.6	50	18	13	26	0	29			0.03	- 0.27	0.03	1	0	0.6	1						21	5	3	3.2	
VERMONT																																
BURLINGTON	331	994.5	1009.6	28	7	17.2	- 0.2	37	6+	- 9	10	0	29	8	63	0.63	- 1.16	0.18	12	0	8.8	4	9.6	18	31	NW	2	6	7	16	6.9	59
VIRGINIA																																
LYNCHBURG	947	987.2		44	27	35.9	- 3.0	65	5	16	23	0	26			4.46	1.81	1.40	10	0	11.8	5	7.7		28	NE	18	11	7	11	5.2	53
NORFOLK	26	1011.4	1012.7	48	31	39.9	- 1.7	63	6+	22	13	0	19	27	66	4.56	1.35	0.90	13	0	5.8	3	13.9	24	59	SW	6	11	8	10	5.4	64
RICHMOND	162	1006.5	1012.8	48	27	37.2	- 2.7	66	5	15	4	0	24	24	64	4.46	1.56	1.24	12	0	10.2	7	19.2	31	33	SW	6	10	9	10	5.3	64
ROANOKE	1174	970.3	1013.1	44	27	35.6	- 3.6	63	5	15	23+	0	25	22	60	5.33	2.47	1.72	7	0	20.2	5	11.2	31	35*	29	16	8	10	11	5.8	
WASHINGTON																																
OLYMPIA	190	1018.3	1025.3	49	29	39.0	- 1.9	57	23	21	27+	0	18	34	86	2.54	- 4.08	1.15	11	0	0.0	0	7.4	18	32*	18	29	4	8	17	7.3	
SEATTLE TACOMA	400	1010.8	1025.3	48	34	41.3	0.5	54	22+	28	8+	0	12	33	74	1.66	- 2.58	0.45	14	0	T	0	8.6	20	30*	23	29	6	8	15	6.9	
SEATTLE U	14			50	39	44.2	0.6	56	3	33	7+	0	0			1.55	- 2.35	0.49	12	0	T	0			48	SW	29					49
SPOKANE	2356	952.6	1023.0	37	21	29.2	- 0.8	42	27+	9	14	0	29	23	79	0.98	- 0.88	0.38	7	0	5.2	3	8.0	22	42	SW	16	7	10	12	6.3	68
STAMPEDE PASS R	3958	883.3		34	24	29.4	2.8	46	22	18	12	0	28			8.78	- 1.37	1.87	17	0	69.5	166						7	4	18	7.3	
TATOOSH ISLAND R	101	1021.3	1024.3	48	40	43.7	0.6	52	22	35	12	0	0	38	82	6.80	- 1.90	2.10	15	0	0.0	0	15.0	6	57	NW	4	3	7	19	7.6	43
WALLA WALLA U	949			51	34	42.3	3.9	64	23	26	25+	0	10			0.17	- 1.35		4	0	T	0										
YAKIMA	1061	984.2	1024.5	49	23	36.1	2.1	61	23	16	13	0	28	23	65	T	- 0.87	T	0	0	T	0	7.5	28	44*	28	17	6	12	11	6.0	
WEST INDIES																																
SAN JUAN P.R.	5	1012.9	1015.8	86	69	77.5	3.1	91	29	64	5	4	0	69	77	1.70	- 1.20	0.53	11	0	0.0	0	6.9	5	23	E	26	14	10	5	4.5	78
SWAN ISLAND	28	1011.3		84	76	79.8	1.4	86	28+	70	19	0	0			0.40	- 0.76	0.20	4		0.0	0						16	10	3	3.8	
WEST VIRGINIA																																
BECKLEY	2504	922.9	1014.7	36	20	28.1		57	5	4	23	0	28	21	77	3.83		0.75	19	1	30.8	15	11.1	30	35*	15	15	6	4	19	7.4	
CHARLESTON	939	977.7	1014.1	41	25	33.2	- 4.3	58	5	8	12	0	26	24	72	3.58	0.05	0.68	17	0	21.8	7	6.4	23	21*	22	16+	7	5	17	7.0	
ELKINS	1970	942.0	1013.2	37	16	26.4	- 6.6	54	5	-11	12	0	28	20	77	3.07	- 0.20	0.45	22	0	29.5	9	8.5	30	30*	27	16+	4	6	19	7.6	
HUNTINGTON	827	983.3	1015.0	40	24	32.1	- 5.6	56	5	9	12	0	27	24	75	3.07	0.03	0.97	17	0	14.3	6	7.1	24	23*	25	16	8	5	16	6.7	
PARKERSBURG U	615			39	23	30.8	- 4.7	58	5	7	23	0	27			2.17	- 0.66	0.68	15	0	8.5	2	7.1		26	NW	16					43
WISCONSIN																																
GREEN BAY	682	989.8	1013.3	31	12	21.4	3.3	54	29	-12	24	0	29	14	72	0.26	- 0.82	0.10	5	0	3.2	1	11.5	22	36	SW	29	4	14	11	6.4	50
LA CROSSE	652	989.0	1014.6	37	16	26.8	7.4	58	29	1	24	0	29	15	65	0.09	- 0.96	0.04	4	0	1.0	T	11.5	18	36*	22	29	8	9	12	5.9	
MADISON	858	977.6	1014.1	37	13	24.9	5.4	53	29	- 3	27	0	29	14	63	0.26	- 0.87	0.24	3	0	3.7	4	9.4	20	34	SW	29	8	5	16	6.4	59
MILWAUKEE	672	988.5	1014.3	34	16	25.3	2.9	50	29	- 2	24	0	29	17	71	0.41	- 0.99	0.34	6	0	5.7	4	11.8	21	34	SW	29	11	5	13	5.9	57
WYOMING																																
CASPER	5319	834.5	1018.4	31	12	21.2	- 5.1	45	10	- 2	26+	0	29	12	68	0.72	0.13	0.36	12	0	12.7	6	15.5	23	35*	31	22	4	14	11	6.5	
CHEYENNE	6126	808.5	1017.3	33	11	22.3	- 5.0	52	10	0	26+	0	29	8	55	0.24	- 0.32	0.10	7	0	3.3	2	19.3	31	54	NW	17	6	13	10	5.8	78
LANDER	5563	833.1	1019.1	34	9	21.7	- 2.4	48	9	- 5	26	0	29	8	57	1.20	0.51	0.40	11	0	24.6	10	6.6	14	37	NW	17	9	11	9	5.4	71
SHERIDAN	3942	882.8	1017.9	37	16	26.7	2.9	55	4	- 2	15	0	29	18	70	0.81	0.07	0.16	14	0	13.3	4	12.8	31	63	NW	5	3	9	17	7.5	56

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day and may include precipitation from the last day of the previous month or the first day of the following month.

Wind directions under prevailing direction and fastest mile are to 8, 16, or 36 points of the compass. Directions to 36 points are printed in tens of degrees.

* Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed. This station is not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

A Maximum hourly average.

B Number of days maximum 70°F. or above for Alaskan Stations.

Y Peak Gust.

\# Wind direction to 8 compass points only.

\+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
ALABAMA																																
BIRMINGHAM	186	990.5	1016.5	11.1	1.1	5.9	-3.3	17.2	10	- 6.1	23	0	14	- 0.6	85	104	- 30	24	12	0	T	T	3.9	11	17.0	W	10	8	4	17	6.8	53
HUNTSVILLE	184	992.5	1016.4	10.0	- 0.6	4.9	-2.4	17.2	3	- 8.3	23	0	16	- 2.2	64	102	- 31	40	9	0	25	25	4.0	32	16.1*	13	15	8	4	17	6.6	
MOBILE	64	1013.9	1016.4	14.4	3.9	8.9	-3.9	22.8	13	- 3.3	23	0	6	2.8	68	69	- 47	20	11	2	0	0	5.5	9	15.6*	31	15	10	6	13	6.1	
MONTGOMERY	59	1008.1	1016.6	12.8	2.2	7.4	-2.8	19.4	10	- 4.4	23	0	12	0.6	67	114	3	41	11	0	T	0	3.9	30	13.9	W	19	6	9	14	6.8	53
ALASKA																																
ANCHORAGE	27	996.1	1001.1	- 2.2	-10.6	- 6.6	1.2	6.7	6	-30.0	16	0	28	-10.6	76	29	11	9	12	0	455	229	3.8	18	13.4*	19	7	5	3	21	7.8	32
ANNETTE	34	1012.6	1016.7	6.7	1.1	3.7	2.0	8.9	2	- 2.2	22	0	10	1.1	84	336	119	65	25	0	36	25	5.8	16	16.5*	18	11	0	4	25	9.0	
BARROW	7	1015.9	1016.6	-30.6	-36.7	-33.7	-5.7	-21.1	25+	-47.8	19	0	29	-37.8	64	10	5	2	11	0	135	305						11	5	13	5.9	
BARTER ISLAND	12	1012.9	1014.8	-28.9	-33.9	-31.4	-2.7	-14.4	25	-44.4	19	0	29	-35.0	67	4	- 5	1	8	0	36	330	4.9	26	11.2*	8	20+	6	3	20	7.2	
BETHEL	38	999.8	1001.2	-13.9	-22.8	-18.4	-5.2	5.6	26	-37.2	14+	0	29	-22.2	69	9	- 19	3	11	0	107	178	6.8	3	17.9*	3	11	8	0	21	7.0	
COLD BAY	29	993.3	997.3	- 0.6	- 6.1	- 3.2	-1.0	6.7	4	-14.4	18	0	24	- 6.1	80	44	- 36	17	17	0	211	127	8.3	3	23.2*	17	20	0	5	24	8.7	
CORDOVA	12	1000.7	1002.6	1.7	- 5.6	- 1.9	1.3	4.4	29+	-18.9	10	0	22	- 3.3	90	482	364	97	24	0	2037	711	4.3	12	13.9*	13	7	1	4	24	8.9	
FAIRBANKS	133	988.1	1006.1	-11.7	-23.3	-17.4	2.0	2.8	7	-39.4	17	0	29	-21.1	70	12	- 2	5	6	0	251	381	2.1	36	9.4*	25	7	2	11	16	7.5	
JUNEAU	5	1010.2	1010.8	3.9	0.0	2.2	5.1	7.8	20	- 2.8	16	0	16	0.6	88	215	138	34	27	0	493	127	6.8	11	17.9*	12	6	0	1	28	9.8	12
KING SALMON	13	999.4	999.4	- 5.0	-14.4	- 9.8	-1.7	6.1	23+	-32.2	17	0	26	-13.9	73	49	25	14	20	0	277	178	6.3	36	20.6*	14	4	4	6	19	7.7	
KOTZEBUE	3	1007.8	1008.3	-25.0	-33.9	-29.6	-9.6	- 1.7	24	-46.7	19+	0	29	-33.3	71	12	5	4	9	0	351	635	3.9	6	15.6*	18	24	13	0	16	5.7	
MC GRATH	102	990.7	1003.9	-11.7	-24.4	-18.1	-0.4	2.8	24+	-43.3	10	0	29	-22.8	63	28	- 1	6	14	0	541	483	2.4	2	11.6*	20	24+	10	0	19	6.6	
NOME	4	1003.9	1004.6	-16.7	-27.8	-22.3	-7.6	0.0	24	-38.3	14+	0	29	-25.6	73	23	- 1	8	11	0	231	559	4.6	36	19.7*	8	23	11	2	16	6.0	41
ST. PAUL ISLAND	7	997.7	998.9	- 5.6	-12.8	- 9.2	-4.3	1.7	23+	-23.3	20	0	29	-10.0	92	145	113	35	26	0	1417	838	11.2	3	30.8*	3	4	0	5	24	9.0	
SHEMYA	37	985.5	1000.8	- 1.1	- 3.9	- 2.5	-1.8	3.3	13	- 7.8	2+	0	28	- 6.1	76	48	- 10	7	21	0	505	152	11.1	6	27.3*	12	13	1	4	24	8.5	
YAKUTAT	9	1006.8	1007.8	2.8	- 1.7	0.4	2.3	5.6	19	- 8.3	28	0	20	- 0.6	91	816	608	127	27	1	2123	559	4.2	9	17.4*	13	1	1	0	28	9.3	
ARIZONA																																
FLAGSTAFF	2131	786.9	1017.2	5.6	-11.7	- 3.0	-1.7	14.4	10	-17.2	15	0	29	-13.3	49	4	- 42	4	2	0	36	51	3.8	36	11.2*	4	4	24	2	3	2.0	
PHOENIX	340	976.3	1016.3	18.3	0.6	9.6	-2.3	23.3	1	- 3.3	15+	0	15	- 7.8	31	T	- 21	T	1	1	0	0	3.1	11	12.5Y	ENE	2	21	5	3	2.0	94
PRESCOTT	1528	845.9	1017.7	11.1	- 6.1	2.6	-1.7	18.9	10	-11.7	15	0	29	-13.3	36	2	- 26	2	1	0	25	T	4.4	33	15.6	N	2	23	3	3	1.8	93
TUCSON	788	925.8	1015.4	17.2	0.6	8.7	-2.9	24.4	10	- 4.4	15+	0	14	-11.7	26	3	- 18	3	1	0	0	0	4.2	12	13.0	NW	2	19	4	6	2.7	88
WINSLOW	1487	850.7	1019.5	10.0	- 9.4	0.2	-2.9	16.7	10	-14.4	15	0	29	-15.0	37	4	- 9	2	3	0	36	T	4.2	34	14.8*	34	19	21	3	5	2.4	
YUMA	61	1011.9	1017.3	21.7	5.6	13.4	-1.6	27.8	10	0.0	15	0	1	- 9.4	25	4	- 6	3	2	0	0	0	3.7	36	22.4	W	20	21	5	3	2.3	94
ARKANSAS																																
FORT SMITH	137	999.4	1016.9	11.1	- 1.7	4.7	-1.8	18.9	2	- 9.4	22	0	22	- 2.2	64	82	- 6	51	5	0	0	0	3.9	27	13.4	W	25	10	11	8	5.0	65
LITTLE ROCK	78	1003.3	1016.9	11.7	- 1.1	5.3	-1.6	17.8	2	- 6.1	23	0	19	- 2.2	62	73	- 37	34	6	0	0	0	4.0	25	13.4	SW	15	13	7	9	5.0	62
TEXARKANA	110	1003.2	1016.9	12.8	1.7	7.2	-1.9	18.3	2	- 5.6	22	0	11	0.0	67	70	- 33	40	7	1	0	0	3.1	25								
CALIFORNIA																																
BAKERSFIELD	151	1002.4	1020.7	18.3	2.8	10.6	-0.6	23.9	20	- 1.1	13	0	2	- 0.6	51	10	- 19	9	3	0	0	0	2.7	10	11.2*	13	20	21	5	3	2.0	
BISHOP	1252	877.0		15.6	- 3.9	5.8	0.7	20.0	24+	- 8.3	28+	0	28			T	- 25	T	0	0	T	0						27	2	0		
BLUE CANYON	1609	840.9		9.4	- 0.6	4.5	1.7	16.7	9	- 5.6	29+	0	15			21	-238	11	4	0	150	991	3.8		17.9*	5	19	23	2	4	2.0	
BURBANK	213	991.3	1017.7	20.6	4.4	12.6	-0.3	26.7	19+	1.1	15	0	0	- 4.4	35	T	- 82	T	0	0	0	0	3.3	36	11.6*	35	11+	25	3	1	1.1	
EUREKA U	13	1022.0		12.2	4.4	8.3	-0.7	22.2	20	0.6	16	0	0			30	-110	21	7	1	0	0	3.1	NW	15.2	W	14	20	4	5	3.0	87
FRESNO	99	1008.2	1020.5	16.7	0.6	8.6	-1.7	21.1	24+	- 2.2	14	0	16	1.1	65	T	- 56	T	0	0	0	0	2.4	8	11.6	NW	28	23	4	2	1.6	90
LONG BEACH	10	1016.8	1018.5	21.1	5.6	13.2	0.7	27.2	19+	2.2	17	0	0	0.6	51	0	- 59	0	0	0	0	0	2.8	30	12.5*	7	20	22	5	2	1.8	
LOS ANGELES	30	1014.4	1018.4	19.4	7.2	13.3	0.4	26.1	9	3.3	26	0	0	1.1	49	T	- 73	T	0	0	0	0	4.1	8	11.6Y	36	16	24	5	0	1.4	
LOS ANGELES U	95			20.6	9.4	15.0	1.1	26.1	19+	7.2	14+	0	0			T	- 85	T	0	0	0	0	3.1	W	16.1	NW	11	25	3	1	1.5	96
MT SHASTA R	1080	898.2		9.4	- 3.3	2.9	0.2	14.4	27+	- 7.8	14	0	28			9	-141	6	6	0	165	102						22	5	2	2.1	
OAKLAND	1	1021.0	1021.5	15.6	7.2	11.3	0.9	22.2	19	5.0	26+	0	0	3.9	63	6	- 76	5	2	0	0	0	3.7	29	15.6*	4	20	22	5	2	1.8	
POINT ARGUELLO R	112	1005.4		17.2	3.3	10.2	-0.4	25.0	9	- 0.6	27+	0	3			3	- 53	2	3	0	0	0	3.2		10.3*	32	29	23	4	2	2.0	
RED BLUFF	104	1009.1	1022.3	18.3	3.3	11.0	1.2	23.9	18	0.0	28+	0	2	- 3.3	44	1	- 84	1	1	0	0	0	4.9	35	16.5	SE	14	20	7	2	2.2	94
SACRAMENTO	5	1020.0	1021.6	17.2	2.2	9.7	0.1	24.4	19	- 0.6	26+	0	5	2.2	67	4	- 72	4	2	0	0	0	3.4	34	15.2	NW	11	24	4	1	1.7	95
SACRAMENTO U	7			17.8	3.9	10.8	0.6	25.0	19	1.1	17	0	0			5	- 83	5	2		0	0										
SANDBERG R	1377	863.9		9.4	0.6	5.0	-0.2	16.7	10	- 4.4	29	0	16			5	- 60	4	2	0	0	0	7.0		19.2*	35	16+	22	5	2	1.8	
SAN DIEGO	4	1014.6	1017.9	20.0	7.2	13.7	0.3	26.1	20	5.0	15	0	0	1.7	50	9	- 45	9	3	0	0	0	2.8	7	10.7	NW	29	19	7	3	2.8	89
SAN FRANCISCO	2	1020.9	1021.8	16.7	4.4	10.4	-0.1	22.2	19	2.2	24	0	0	2.8	62	7	- 82	6	2	0	0	0	4.2	29	21.0	WNW	10	24	3	2	1.3	
SAN FRANCISCO U	16			16.7	8.9	12.8	1.1	23.9	19	6.7	29	0	0			5	- 88	4	2	0	0	0	3.1	W	11.2	NE	25					95
SANTA CATALINA	478	961.7		16.7	10.0	13.4	1.2	23.3	10+	6.7	29+	0	0			1	- 80	T	2	0	0	0						21	5	3	2.4	
SANTA MARIA	73	1011.1	1020.2	19.4	0.6	9.8	-1.2	25.6	19+	- 3.3	14	0	17	0.6	62	1	- 62	1	1	0	0	0	3.7	30	11.6*	30	13	26	1	2	1.2	
STOCKTON	9	1019.8	1021.5	16.7	0.6	8.5	-0.9	22.8	19	- 3.3	26	0	10	1.1	66	1	- 61	1	1	0	0	0	3.0	31	17.0*	31	11	24	4	1	1.6	
COLORADO																																
ALAMOSA	2297	766.2		0.6	-18.3	- 8.9	-4.2	9.4	10	-27.8	8+	0	29			7	3	3	5	0	160	76						15	7	7	4.1	
COLORADO SPRINGS	1882	806.3	1017.3	3.9	-10.6	- 3.3	-3.0	14.4	1	-20.6	26	0	29	-13.9	50	6	- 3	3	4	0	69	51	5.6	36	17.4*	34	14	10	6	13	5.7	

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
COLORADO																																
DENVER	1610	1003.7	1016.4	4.4	- 9.4	- 2.6	-2.3	17.8	1	-19.4	26+	0	27	-11.7	53	26	9	8	8	0	323	127	4.6	18	13.4	N	19+	8	9	12	5.9	61
GRAND JUNCTION	1478	859.6	1019.8	5.6	- 8.3	- 1.4	-1.7	11.1	10	-12.2	26+	0	29	-13.3	44	1	- 17	1	1	0	10	T	2.8	13	11.6	E	25	13	8	8	4.2	83
PUEBLO	1414	853.8	1017.3	6.7	-11.1	- 2.4	-3.4	17.8	1	-21.7	26	0	29	-12.2	52	5	- 7	2	5	0	102	51	5.3	36	22.8	NW	16	13	5	11	5.1	66
CONNECTICUT																																
BRIDGEPORT	2	1004.0	1010.7	2.8	- 5.0	- 1.2	-0.3	10.0	5	-10.6	23	0	27	- 7.2	66	57	- 18	15	11	0	274	152	7.2	31	19.7*	32	5	10	8	11	5.4	
HARTFORD	52	1002.8	1009.0	1.7	- 8.3	- 3.4	-0.7	7.8	26	-18.3	23	0	28	- 9.4	63	87	12	34	11	0	559	356	4.2	31	14.8	NW	5	7	11	11	5.9	64
NEW HAVEN	2	1008.4		3.3	- 6.1	- 1.5	-0.2	10.0	5	-10.6	28	0	27			68	- 13	20	12	0	381	229	4.6		14.8	W	5	9	8	12	5.6	66
DELAWARE																																
WILMINGTON	24	1008.6	1011.9	3.9	- 4.4	- 0.2	-1.2	12.8	5	-11.7	23	0	26	- 6.1	65	86	11	26	10	1	378	152	5.4	31	13.9*	28	8	10	8	11	5.6	
DIST. OF COLUMBIA																																
WASHINGTON U	22			5.6	- 1.7	2.0		16.1	5	- 7.2	23	0	24			85	18	24	10		0	0										
WASH NATL AP	4	1007.8	1012.3	7.2	- 1.7	2.7	-0.5	17.8	5	- 7.2	23	0	23	- 5.6	58	86	23	23	10	0	297	203	5.0	34	16.1	NW	16	10	8	11	5.5	61
FLORIDA																																
APALACHICOLA U	4	1014.4		14.4	6.7	10.6	-3.2	18.3	6+	1.7	23+	0	0			164	65	72	14	3	0	0	4.0					10	9	10	5.4	
DAYTONA BEACH	9	1014.8	1016.6	18.3	8.9	13.6	-2.3	26.7	15	1.7	24	0	0	8.3	73	67	- 3	19	14	3	0	0	4.7	30	17.9*	26	18	7	8	14	6.5	
FORT MYERS	4	1015.9		22.2	11.1	16.7	-1.8	28.3	27+	3.3	24	0	0			84	28	57	9	0	0	0	5.2		16.5*	29	8	11	9	9	5.1	
JACKSONVILLE	7	1014.7	1016.0	16.7	6.1	11.3	-2.8	25.0	15	- 1.7	24	0	1	5.0	69	166	92	98	13	1	0	0	4.7	27	18.3	W	6	9	10	10	6.0	67
KEY WEST	2	1015.0	1016.2	22.8	16.7	19.8	-1.5	27.2	18+	12.2	12	0	0	15.0	75	35	- 15	22	5	0	0	0	5.7	36	15.2	NW	8	12	8	9	4.8	67
LAKELAND U	65			19.4	8.9	14.1	-3.2	26.7	15	2.8	12	0	0			106	42	24	13	3	0	0	4.0					9	9	11	5.9	55
MIAMI BEACH	3			22.8	15.0	18.9	-1.9	30.0	16	7.8	21+	0	0			58	16	34	7		0	0	6.3	S				10	12	7	4.8	62
MIAMI	2	1014.9	1016.2	23.9	13.9	18.7	-1.2	30.6	28	6.1	9	0	0	13.9	74	56	9	24	7	0	0	0	4.0	32	17.0*	30	8	8	11	10	5.6	
ORLANDO	32	1011.9	1016.5	20.0	9.4	14.6	-2.0	27.2	15	3.9	24+	0	0	8.3	72	87	25	22	10	1	0	0	5.0	31	17.9*	30	18	7	10	12	6.0	
PENSACOLA	4			13.9	3.9	8.9	-4.5	20.0	13	- 2.8	23	0	5			172	59	47	13	2	0	0	4.1	35	15.6	W	19					45
TALLAHASSEE	18	1014.0	1016.8	15.6	3.3	9.4	-3.7	20.0	25+	- 4.4	24	0	10	3.9	72	292	186	142	16	2	T	0	4.6	36	16.5*	28	19	7	12	10	5.9	
TAMPA	6	1015.2	1016.9	19.4	8.3	13.9	-3.1	25.0	15	0.6	12	0	0	8.3	72	136	64	39	13	2	0	0	5.9	32	17.9*	32	8+	7	8	14	6.3	55
WEST PALM BEACH	5	1015.7	1016.8	22.8	11.1	17.1	-2.7	30.6	28	3.3	24	0	0	12.2	76	111	51	70	8	0	0	0	4.8	32	14.3*	24	28	9	12	8	5.3	
GEORGIA																																
ATHENS	245	985.6	1015.2	10.6	- 0.6	5.1	-2.8	17.2	10	- 7.2	12	0	19	- 1.7	65	132	12	34	9	1	T	0	4.2	29	10.7*	30	28+	8	9	12	5.9	
ATLANTA	306	972.5	1015.7	9.4	0.0	4.6	-3.4	15.6	10	- 6.1	23	0	17	- 2.2	67	106	- 9	30	12	0	8	T	4.1	29	13.9	W	19+	7	5	17	6.6	56
AUGUSTA	44	1008.5	1015.4	12.8	0.6	6.4	-3.2	18.9	10	- 6.1	24	0	14	- 0.6	65	123	34	45	12	0	0	0	4.0	24	16.5*	27	28	7	11	11	5.9	
COLUMBUS	117	1001.5		12.2	1.1	6.7	-3.1	18.3	10	- 5.0	24+	0	11			136	19	38	12	1	0	0	4.8		13.0*	31	28+	8	6	15	6.7	
MACON	109	1002.2	1016.1	12.8	2.2	7.3	-3.3	18.3	10	- 4.4	23	0	9	0.0	64	145	37	44	12	0	T	T	4.5	30	15.6	W	19	10	5	14	6.1	53
ROME	194	992.3		9.4	- 2.2	3.6	-3.3	16.1	10	- 8.9	12	0	21			126	- 8	37	7	0	8	0						8	9	12	6.0	
SAVANNAH	15	1013.2	1015.7	15.0	2.8	8.8	-2.9	22.2	18	- 2.8	12	0	6	3.3	71	201	108	88	15	1	0	0	5.5	27	17.0	NW	28	7	10	12	6.2	60
THOMASVILLE U	86			14.4	4.4	9.2	-3.7	21.1	15	- 1.7	23	0	6			200	98	81	13	1	T	T										
HAWAII																																
HILO	9	1016.3	1018.2	25.6	17.2	21.2	-0.2	26.7	3+	15.6	28+	0	0	16.7	79	463	134	95	27	5	0	0	4.1	27	11.6*	6	27	3	10	16	7.2	49
HONOLULU	2	1017.7	1018.1	27.8	20.0	23.7	1.3	28.9	23+	17.8	19+	0	0	15.0	60	13	- 71	5	8	0	0	0	5.0	6	14.3	NE	14	12	14	3	4.2	81
KAHULUI	13	1014.3	1017.4	27.2	18.9	22.9	0.9	29.4	1	15.0	17	0	0	16.1	68	9	- 56	3	8	0	0	0	5.9	7	14.3	NE	29	15	12	2	3.7	78
LIHUE	35	1013.5	1019.3	26.1	19.4	22.7	1.2	27.2	22+	16.7	5	0	0	16.7	70	44	- 91	19	16	0	0	0	6.1	5	12.1	NE	13	13	10	6	4.8	68
IDAHO																																
BOISE	865	926.4	1026.2	1.1	- 7.8	- 3.2	-4.6	6.7	18	-12.2	6	0	29	- 6.1	81	5	- 29	2	5	0	53	51	3.4	14	11.2	NW	24+	10	11	8	4.9	86
IDAHO FALLS 42NW R	1460			- 4.4	-22.8	-13.7	-6.4	1.7	11+	-32.8	26	0	29			2	- 10	1	3		0	0										
IDAHO FALLS 46W R	1504	850.8		- 3.3	-21.7	-12.3	-5.8	2.8	11	-27.8	28	0	29			6	- 14	2	4	0	66	203	1.4		10.3A	N	19					
LEWISTON	431	970.8		7.8	- 2.8	2.7	0.5	11.7	17	- 7.2	25	0	22			5	- 19	3	6	0	53	25						7	7	15	6.4	
POCATELLO	1355	866.6	1026.6	- 1.7	-15.0	- 8.4	-5.7	4.4	10	-22.8	15	0	29	-11.1	79	9	- 15	4	5	0	127	203	3.8	24	15.6	SW	19	6	10	13	6.7	48
ILLINOIS																																
CAIRO U	96	1002.5		8.3	- 1.1	3.7	-1.2	15.6	2	- 6.7	22	0	21			61	- 32	25	8	0	5	T	3.8	N	12.5	SW	29	11	7	11	5.3	63
CHICAGO O HARE	201	989.1	1014.5	2.2	- 8.3	- 3.0	0.2	12.8	5	-16.7	22	0	29	- 7.8	70	13	- 25	6	7	0	150	76	4.9	21	15.6*	22	29	13	3	13	5.7	
CHICAGO MIDWAY	186	991.4	1015.0	2.8	- 6.1	- 1.8	0.6	12.8	5	-12.8	24	0	29	- 7.2	67	14	- 26	6	8	0	163	76	5.0	20	14.3	SW	29	13	2	14	5.6	57
MOLINE	177	992.7	1015.6	2.2	- 7.8	- 2.8	0.7	11.7	5	-16.7	27	0	29	- 7.2	74	19	- 16	9	5	0	140	76	4.4	31	13.4	SW	29	12	5	12	5.4	57
PEORIA	199	993.4	1016.5	2.8	- 7.2	- 2.2	-0.2	11.1	29+	-14.4	26	0	29	- 6.1	74	14	- 30	9	9	0	157	102	3.9	18	11.6	S	29	12	1	16	5.7	59
ROCKFORD	222	986.1	1014.3	2.2	- 8.9	- 3.5	0.7	11.7	5	-18.3	27	0	29	- 7.8	71	13	- 24	9	4	0	165	127	4.6	21	12.5*	23	29	14	3	12	5.1	
SPRINGFIELD	179	991.7	1015.8	3.3	- 6.7	- 1.6	-1.4	12.2	5	-16.7	26	0	29	- 5.0	76	32	- 14	11	9	0	345	152	5.1	30	16.1	S	29	12	4	13	5.3	62

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
INDIANA																																
EVANSVILLE	116	999.7	1016.0	7.2	- 5.0	1.0	-2.1	15.0	25+	-11.1	11	0	27	- 5.0	68	40	- 41	16	8	0	81	76	3.0	30	11.2	NW	28+	10	5	14	5.8	52
FORT WAYNE	241	982.4	1014.7	1.7	- 8.3	- 3.5	-1.4	11.1	5	-20.6	27	0	26	- 7.2	74	28	- 28	8	12	0	295	127	4.3	26	12.5	W	23	8	7	14	6.1	65
INDIANAPOLIS	242	984.1	1015.0	3.3	- 6.7	- 1.7	-1.2	11.7	5	-13.9	24	0	28	- 6.1	74	51	- 7	19	15	0	323	152	4.1	30	11.6	W	7	7	11	11	5.8	65
SOUTH BEND	234	985.3	1014.2	1.7	- 6.7	- 2.6	0.3	11.1	5	-15.0	27	0	28	- 7.2	70	26	- 22	7	16	0	366	102	4.5	21	10.3*	24	26+	8	3	18	6.5	
IOWA																																
BURLINGTON	212	989.8	1016.3	3.3	- 7.2	- 1.9	0.4	11.7	5	-15.0	26	0	29	- 6.7	73	27	- 8	8	8	0	302	152	5.1	21	14.3	NW	6	12	3	14	5.7	62
DES MOINES	289	983.8	1016.0	2.2	- 8.9	- 3.2	1.1	12.8	29	-15.6	24+	0	29	- 7.8	74	7	- 21	3	6	0	104	25	5.0	33	19.7	S	29	11	7	11	5.6	64
DUBUQUE	325	988.7		1.7	- 8.9	- 3.5	2.1	11.1	5	-17.2	24	0	29			7	- 28	5	4	0	97	76			16.5*	22	29	12	5	12	5.6	
SIOUX CITY	334	973.1	1015.9	3.9	- 8.3	- 2.3	3.2	12.2	29+	-16.1	23	0	29	- 7.8	69	8	- 15	2	7	0	81	25	4.8	33	18.8	NW	6	10	7	12	5.9	66
WATERLOO	265	981.4	1014.5	3.3	-11.1	- 3.9	2.0	13.9	29	-21.1	27	0	29	- 9.4	70	5	- 18	3	4	0	20	T	4.6	32	15.6*	21	29	12	8	9	5.2	
KANSAS																																
CONCORDIA	448	964.6	1016.0	6.7	- 6.7	- 0.1	0.1	15.6	1	-13.9	26	0	27	- 6.7	65	11	- 12	5	6	0	58	51	6.3	18	19.2	S	29	13	4	12	5.1	69
DODGE CITY	791	925.8	1016.6	5.6	- 6.1	- 0.1	-1.8	17.2	1	-12.2	7	0	29	- 6.1	68	14	- 3	10	6	0	84	51	6.0	35	18.8	S	11	8	8	13	6.0	65
GOODLAND	1111	885.5	1016.4	4.4	- 8.9	- 2.2	-1.6	17.8	1	-15.6	26	0	29	- 7.8	72	19	6	8	7	0	262	127	6.9	35	20.1*	34	8	10	5	14	5.8	
TOPEKA	267	979.4	1016.3	7.8	- 5.6	1.3	0.7	16.1	2+	-12.2	27+	0	26	- 6.1	62	7	- 19	4	3	0	51	25	6.1	32	20.1	NW	6	12	7	10	5.1	65
WICHITA	403	965.9	1016.0	8.3	- 3.9	2.3	-0.1	15.6	1	-10.0	26+	0	24	- 5.0	63	13	- 10	7	3	0	38	T	6.0	36	21.9	S	29	10	10	9	5.1	65
KENTUCKY																																
COVINGTON	265	981.7	1014.4	4.4	- 6.7	- 1.0	-1.6	12.2	25+	-13.9	24	0	28	- 5.6	73	50	- 24	20	13	0	170	25	3.9	29	10.3*	34	16	8	6	15	6.4	
LEXINGTON	298	977.9	1015.1	5.0	- 5.0	0.0	-2.1	13.9	5	-16.7	12	0	27	- 5.0	71	64	- 23	20	14	0	305	152	4.2	30	10.7*	24	6	10	5	14	5.9	
LOUISVILLE	144	997.1	1015.2	6.1	- 5.0	0.8	-1.3	15.6	5	-12.2	12	0	28	- 4.4	70	62	- 21	23	13	0	196	102	3.8	27	12.5	NW	28+	8	9	12	6.1	54
LOUISIANA																																
ALEXANDRIA	28	1012.8	1017.6	14.4	1.1	7.6	-3.9	21.7	10	- 7.2	22	0	15	1.1	67	63	- 63	27	7	0	T	0	3.0	31	10.7*	25	5	11	7	11	5.7	
BATON ROUGE	20	1013.9	1017.0	15.6	4.4	9.7	-3.3	20.6	10	- 3.9	23	0	4	2.2	63	132	20	52	8	3	0	0	4.4	9	13.0*	31	15	9	9	11	5.8	
LAKE CHARLES	4	1015.8	1017.4	13.9	3.9	8.9	-4.6	20.0	10	- 2.2	22+	0	5	3.3	70	77	- 37	25	10	0	T	0	4.4	36	11.2*	33	15	9	6	14	6.2	
NEW ORLEANS	1	1014.7	1017.0	15.0	4.4	9.9	-4.1	23.9	13	- 3.3	23	0	4	5.6	76	136	35	47	11	1	0	0	4.2	7	13.4*	24	5	9	6	14	6.1	
NEW ORLEANS AUDUBON	2	1009.7		15.0	6.1	10.7	-3.6	22.2	15+	- 0.6	23	0	1			136	25	47	13	1	0	0	2.9	NE	8.0	SW	5	11	7	11	5.6	57
SHREVEPORT	77	1008.0	1017.6	12.8	2.2	7.6	-2.6	20.0	10	- 4.4	22	0	8	0.6	66	70	- 34	34	9	0	T	0	5.1	30	14.3*	28	15	9	10	10	5.6	62
MAINE																																
CARIBOU	190	981.1	1004.9	- 3.9	-13.9	- 8.9	1.9	2.8	20	-23.3	11+	0	29	-12.8	70	14	- 37	6	8	0	257	254	5.5	31				9	5	15	6.2	
PORTLAND	19	1003.0	1007.1	1.1	-11.1	- 5.0	0.1	7.2	5	-21.1	11+	0	29	- 9.4	69	68	- 29	27	9	0	452	279	4.8	32	19.2	NW	3	9	8	12	5.9	66
MARYLAND																																
BALTIMORE	45	1007.5	1012.2	5.6	- 3.9	0.7	-1.4	15.0	26+	-10.0	23	0	25	- 7.8	57	111	37	32	9	0	462	178	4.6	28	19.7	S	6	13	5	11	5.4	61
BALTIMORE U	4			5.6	- 1.7	2.1	-1.2	15.0	5	- 7.2	23	0	23			115	39	32	11		0	0										
MASSACHUSETTS																																
BLUE HILL OBS R	192	982.4		1.1	- 7.8	- 3.2	-0.6	7.2	26	-13.9	25	0	29			135	41	41	11		818	406	8.0	NW	28.6	NW	3					61
BOSTON	5	1003.1	1008.0	2.2	- 5.6	- 1.6	-0.7	8.3	26+	-10.6	25+	0	26	- 8.3	62	119	34	36	11	2	589	330	6.8	31	17.9	34	16	10	7	12	5.4	68
NANTUCKET	13	1006.9	1007.5	2.8	- 3.9	- 0.8	-0.4	8.3	5	- 9.4	18+	0	26	- 6.1	69	142	47	52	13	0	632	305	7.4	30	29.5	NW	16	8	7	14	6.6	53
PITTSFIELD	357			- 0.6	-12.8	- 6.5	-1.1	4.4	26	-23.3	28	0	29			42	- 22	15	12		808	635										
WORCESTER	301	969.4	1007.4	0.0	- 8.9	- 4.5	-0.6	6.7	26	-16.1	25	0	29	-11.1	62	90	16	32	10	0	693	559	6.1	28	15.6*	30	2	9	8	12	5.7	
MICHIGAN																																
ALPENA	210	988.9		0.0	-11.7	- 5.6	1.8	10.6	29	-21.7	24	0	29			9	- 32	6	8	0	145	51	3.6	SW#	14.8	SW	29	10	6	13	6.1	68
DETROIT	189	985.9	1013.5	2.2	- 5.6	- 1.7	0.9	9.4	5	-12.2	27	0	26	- 7.2	67	13	- 40	4	9	0	130	25	5.2	22	14.3	W	26	11	3	15	6.1	57
DETROIT M WAYNE CO	193	989.1	1013.9	1.1	- 7.8	- 3.4	-0.7	8.9	5	-16.7	22	0	28	- 8.3	69	17	- 32	4	11	0	196	51	3.3	20				8	6	15	6.2	
DETROIT WILLOW RUN	217	984.3	1013.6	1.7	- 7.2	- 2.8	-0.2	8.9	5	-12.8	27	0	28	- 6.1	76	15	- 34	7	8	0	163	51	5.0	21	14.3*	25	23	8	5	16	6.3	
FLINT	233	985.2	1014.0	1.7	- 8.3	- 3.4	2.0	10.0	29	-15.6	22	0	29	- 8.3	67	14	- 31	6	11	0	183	76	4.8	21	13.4*	27	7	8	6	15	6.5	
GRAND RAPIDS	210	987.1	1013.6	0.6	- 8.3	- 3.9	0.3	8.9	5	-17.2	27	0	29	- 7.2	77	19	- 26	9	9	0	295	152	4.7	20	13.4	SW	26	7	4	18	7.0	50
LANSING	260	980.3	1013.4	1.7	- 8.3	- 3.4	0.9	9.4	29+	-16.7	22	0	29	- 6.7	75	12	- 38	5	10	0	137	76	3.3	22	15.2	SW	29	8	5	16	6.4	52
MARQUETTE U	206	983.7		- 0.6	- 8.9	- 4.7	2.1	11.7	29	-18.3	27	0	29			36	- 6	15	13	0	551	610	4.5	W#	15.2	SW	11	4	7	18	7.4	52
MUSKEGON	191	990.3	1014.1	1.7	- 6.1	- 2.1	1.4	9.4	5	-14.4	11+	0	29	- 5.0	77	21	- 25	6	9	0	518	127	5.9	22	13.0*	21	29	6	3	20	7.6	
SAULT STE MARIE	220	987.8	1011.5	- 2.8	-13.9	- 8.3	0.8	5.6	29	-26.1	24	0	29	-11.1	79	24	- 14	6	14	0	483	635	4.6	36	12.5*	22	29	6	5	18	7.2	58
MINNESOTA																																
DULUTH	435	970.4	1013.3	- 2.8	-14.4	- 8.7	3.1	6.7	29	-25.0	10	0	29	-12.8	69	14	- 10	5	12	0	173	330	4.7	34	17.0	W	6	8	9	12	6.2	62
INTERNATIONAL FALLS	359	969.7	1012.8	- 3.9	-18.9	-11.4	2.4	4.4	29+	-32.2	26	0	29	-15.0	72	16	- 2	8	6	0	173	381	4.9	36	13.0*	27	4	10	7	12	5.5	
MINNEAPOLIS	251	979.7	1014.5	1.1	-10.0	- 4.5	4.6	12.2	29	-17.2	27+	0	29	-11.1	63	2	- 18	1	3	0	25	T	4.3	34	14.3	SW	11	12	7	10	5.0	73

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	C.	C.	C.	C.	C.		C.				C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
MINNESOTA																																
ROCHESTER	395	976.2	1014.5	1.7	-10.6	- 4.4	4.4	13.3	29	-18.9	27	0	29	-10.6	66	1	- 19	1	3	0	20	T	6.2	32	17.4*	21	29	9	11	9	5.6	
ST CLOUD	315	975.2		- 0.6	-12.8	- 6.6	3.7	8.9	29	-20.6	23+	0	29			1	- 19	1	2	0	13	25						11	9	9	5.0	
MISSISSIPPI																																
JACKSON	93	1004.2	1016.6	12.8	0.6	6.9		18.9	10	- 8.3	23	0	12	0.6	67	59		23	9	0	T	0	4.3	12	10.3*	14	5	9	7	13	5.8	
MERIDIAN	89	1002.9	1017.3	12.8	- 0.6	6.1	-4.3	20.6	10	- 8.9	23	0	19	0.6	71	104	- 26	32	9	0	0	0	3.3	18	10.3*	28	15	7	7	15	6.4	
VICKSBURG U	71	1006.9		12.8	3.3	7.9	-3.1	19.4	10	- 3.3	22	0	5			83	- 52	23	8	1	T	0	4.1		12.1	W	5	8	7	14	5.9	53
MISSOURI																																
COLUMBIA	237	985.9	1015.2	6.1	- 4.4	0.7	-0.3	13.9	2	-15.6	11	0	27	- 5.6	67	42	- 4	15	6	0	343	152	5.0	32	13.9	NW	6	11	6	12	5.3	55
KANSAS CITY	226	979.6	1015.5	7.2	- 2.2	2.3	0.2	15.6	2	- 9.4	26	0	22	- 5.0	62	38	7	16	8	0	216	102	4.4	20	13.9	SW	29	11	7	11	5.3	65
ST JOSEPH	247	980.2		6.1	- 6.1	0.1	0.6	13.3	1	-15.0	26	0	26			15	- 12	8	7	0	137	51	4.5	32	13.0*	19	29	11	7	11	5.2	
ST LOUIS	163	994.6	1016.0	6.1	- 3.3	1.3	-0.2	13.9	25	-10.6	11	0	27	- 6.1	61	58	7	17	9	0	231	152	4.3	30	13.9	SW	29	12	3	14	5.5	55
ST LOUIS RFC	142			6.1	- 2.2	2.1	-0.4	13.9	25	- 6.7	22	0	23			62	6	22	10		165	102										
SPRINGFIELD	386	966.9	1015.8	8.3	- 3.9	2.2	-0.7	16.7	2	-11.1	24+	0	25	- 5.0	63	42	- 11	24	8	0	58	25	5.0	16	12.1	SE	3	10	9	10	5.4	67
MONTANA																																
BILLINGS	1087	889.7	1016.8	5.0	- 5.6	- 0.3	3.2	13.9	10	-16.1	25	0	29	- 9.4	54	9	- 6	6	5	0	130	76	7.0	24	19.2	NW	5	1	11	17	7.6	57
GLASGOW	694	938.0		3.9	- 8.3	- 2.4	7.8	10.6	28	-16.7	23	0	29			5	- 6	2	5	0	48	25						2	7	20	7.8	
GREAT FALLS	1116	887.4	1018.6	5.6	- 4.4	0.6	5.1	14.4	4	-15.0	24	0	26	- 8.9	54	13	- 6	4	8	0	145	51	8.3	23	17.4	W	9	5	5	19	7.6	50
HAVRE	787	924.6		5.6	- 6.1	- 0.1	8.6	13.3	4	-12.2	24+	0	28			3	- 8	3	1	0	36	25	5.9	SW#	21.9	W	5	6	4	19	7.0	50
HELENA	1187	874.0	1021.7	2.2	- 7.8	- 2.7	2.2	7.8	4	-18.3	25+	0	28	- 8.3	64	7	- 4	2	7	0	160	76	4.5	27	16.5	W	4	5	5	19	7.4	51
KALISPELL	904	914.3		2.8	-11.7	- 4.5	-0.3	7.8	4	-20.6	25	0	29			13	- 13	5	10	0	170	356	2.4					2	11	16	7.3	
MILES CITY	801		1016.2	3.3	- 8.3	- 2.5	4.0	10.6	28	-16.1	23	0	29	- 6.7	73	14	5	8	7	0	140	102	6.1	30	17.9*	28	5					
MISSOULA	972	905.4	1024.3	0.6	-11.1	- 5.2	-1.3	6.7	4	-23.3	25	0	29	- 8.3	77	13	- 9	6	7	0	226	229	2.5	34	20.1	W	4	3	6	20	7.8	52
NEBRASKA																																
GRAND ISLAND	561	947.9	1016.5	3.3	- 8.3	- 2.6	0.7	15.6	1	-16.7	16	0	29	- 7.8	71	23	5	11	7	0	216	102	5.5	18	15.5*	35	6	7	10	12	5.8	
LINCOLN U	351			5.0	- 5.6	- 0.4	1.4	13.9	29+	-13.3	26	0	27			19	- 8	14	8	0	56	25	4.9	NW#	21.5	S	29	9	9	11	5.5	63
NORFOLK	471	958.1		1.1	- 9.4	- 4.1	0.9	11.7	1	-20.0	16	0	29			19	- 1	9	8	0	236	102						10	5	14	5.7	
NORTH PLATTE	847	913.2	1015.9	3.3	-11.1	- 3.9	-1.7	12.2	29	-21.7	26	0	29	- 8.9	69	16	3	9	6	0	218	127	5.2	31	22.4	N	6	8	8	13	5.8	62
OMAHA	298	974.6	1015.8	5.6	- 7.2	- 0.8	2.2	14.4	29	-15.6	26	0	28	- 7.8	62	9	- 15	3	9	0	89	25	4.6	33	16.5	N	6	7	10	12	5.9	66
OMAHA N OMAHA AP	403	965.8		3.9	- 7.2	- 1.6	2.4	14.4	29	-15.6	26	0	29			9	- 17	2	10	0	61	25						8	8	13	5.8	
SCOTTSBLUFF	1204	876.6	1017.3	3.9	-10.6	- 3.2	-1.6	10.6	1	-19.4	26	0	29	- 9.4	65	6	- 4	3	6	0	104	51	7.0	30	20.5*	35	19	7	8	14	6.6	
VALENTINE	789	919.9		3.9	- 9.4	- 2.7	2.3	12.8	29	-18.9	23	0	29			6	- 8	4	4		76	51	5.5	N#				6	11	12	6.4	66
NEVADA																																
ELKO	1547	848.7	1026.6	1.7	-15.0	- 6.6	-4.4	6.1	1	-22.2	6	0	29	-10.6	74	3	- 20	1	3	0	76	203	2.4	27	10.3*	34	24	16	10	3	3.6	
ELY	1907	809.6	1022.5	2.8	-13.3	- 5.4	-2.4	11.7	10	-21.7	3	0	29	-10.6	70	2	- 16	2	2	0	30	25	4.1	19	16.5	N	19	20	4	5	3.0	85
LAS VEGAS	659	952.8	1020.3	15.0	0.0	7.6	-1.2	21.7	19	- 5.0	15	0	19	-12.2	25	1	- 11	1	1	0	0	0	4.4	26	17.0*	34	5	24	3	2	1.8	93
RENO	1342	867.3	1025.3	10.6	- 7.8	1.2	-0.8	16.7	10	-13.3	26	0	29	- 8.9	53	T	- 26	T	1	0	25	25	2.6	13	13.0	W	28+	20	9	0	2.0	98
WINNEMUCCA	1310	873.0		7.8	- 7.8	- 0.1	-0.2	16.1	10	-15.0	26	0	29			3	- 21	3	2	0	61	51	3.1	18	11.2	W	28	19	6	4	3.2	70
NEW HAMPSHIRE																																
CONCORD	103	996.9	1008.0	1.1	-11.7	- 5.3	-0.2	6.7	5	-24.4	28	0	29	-11.1	66	49	- 14	24	8	0	485	279	4.3	31	15.5*	31	2	12	6	11	5.4	62
MT WASHINGTON OBS	1909	786.8		-11.1	-20.6	-15.9	-1.2	- 4.4	12+	-29.4	3	0	29			143	11	41	17	0	978	229	18.9	W	63.0Y	NW	3	7	7	15	6.8	43
NEW JERSEY																																
ATLANTIC CITY	18	1009.3	1011.4	5.0	- 3.9	0.7	-0.8	12.8	5	-10.0	23	0	27	- 5.6	66	110	30	35	12	0	305	127	5.4	32	16.5*	8	18	10	5	14	5.7	55
ATLANTIC CITY U	3			5.0	- 2.2	1.4	-0.6	12.8	5	- 7.2	23	0	25			103	17	34	11		0	0	8.1		24.1*	NW	2					
NEWARK	3	1009.6	1010.9	3.9	- 3.9	- 0.1	-1.0	11.7	5	- 8.9	22	0	26	- 7.2	61	66	- 5	15	13	0	381	127	5.9	32	15.6*	6	19+	10	9	10	5.8	
TRENTON U	17	1004.0		3.3	- 3.9	- 0.2	-1.0	11.1	5	- 9.4	23	0	26			80	14	26	12	1	292	127	4.9	NW#	15.6	NW	16	9	9	11	5.7	61
NEW MEXICO																																
ALBUQUERQUE	1618	846.3	1017.7	4.4	- 7.8	- 1.6	-6.0	11.1	29+	-17.2	7	0	29	-10.0	59	28	19	11	6	0	208	102	3.8	35	23.2	E	20	16	4	9	3.6	75
CLAYTON	1515	841.7		4.4	- 7.8	- 1.6	-3.8	13.9	1	-15.6	7	0	29			14	5	9	4	0	201	178						12	8	9	4.6	
RATON	1944	800.7		5.0	-13.3	- 4.1	-4.4	15.0	11+	-20.6	7	0	29			13	2	5	7	0	145	76						12	9	8	4.6	
ROSWELL	1103	891.6		10.6	- 7.2	1.8	-3.8	18.3	9	-16.7	21	0	29			32	21	15	5	0	287	127	3.9		17.9	W	27	21	2	6	3.4	82
SILVER CITY	1638	833.0		11.1	- 7.2	1.9	-4.4	18.3	10	-14.4	21	0	29			1	- 16	1	2		20	25						17	6	6	3.1	
NEW YORK																																
ALBANY	84	1007.2	1010.9	0.0	-10.6	- 5.4	-0.8	6.1	5	-22.2	28	0	28	-10.6	67	41	- 14	19	9	0	544	381	4.2	27	15.6	W	2	9	7	13	6.0	68
BINGHAMTON	485	949.0	1010.2	- 3.3	-11.1	- 7.3	-2.7	2.8	5+	-17.8	25+	0	29	- 9.4	82	51	- 5	17	18	0	699	406	5.0	30	15.2	NW	16	2	12	15	7.2	51

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
NEW YORK																																
BUFFALO	215	982.8	1012.0	- 0.6	- 8.9	- 4.7	-0.3	6.1	6	-17.2	11	0	28	- 8.9	74	28	- 41	8	15	0	371	178	5.1	24	17.0	SW	24	3	8	18	7.6	49
NEW YORK U	40	998.9		3.9	- 2.8	0.5	-0.3	11.1	5	- 7.2	25+	0	25			74	2	22	14	0	358	152	5.1	W#	17.0	NE	19	13	6	10	4.9	57
NEW YORK LA GUARDIA	6	1008.7	1010.4	2.8	- 2.2	0.3	-0.6	10.0	5	- 6.7	23+	0	25	- 7.8	58	61	- 18	24	14	0	224	102	6.7	31	17.0	NE	6	8	11	10	5.6	
ROCHESTER	166	992.4	1012.4	0.6	- 9.4	- 4.4	-0.5	6.1	5	-17.2	28+	0	28	- 8.9	68	23	- 42	5	12	0	333	102	5.3	26	14.8	W	5	5	8	16	6.8	57
SCHENECTADY	66			0.0	- 8.9	- 4.6	-0.4	5.6	5	-20.0	28	0	28			32	- 26	11	8		480	305						17	6	6	4.0	
SYRACUSE	127	988.3	1011.2	0.0	- 9.4	- 4.6	-0.3	5.6	5	-18.3	28	0	28	- 8.9	70	29	- 51	7	14	0	409	178	4.6	25	15.2	N	16	2	13	14	7.3	50
NORTH CAROLINA																																
ASHEVILLE U	671	933.2		6.1	- 3.3	1.5	-3.3	13.3	4	-10.0	23	0	25			91	14	22	14	0	353	76	4.0	NW#	13.9	NW	16	8	7	14	6.1	48
CAPE HATTERAS R	2	1011.8	1012.6	11.1	2.2	6.8	-1.3	18.3	16	- 6.1	24	0	9	1.7	70	149	49	36	13	0	T	T	5.8	25	18.8	SSW	16	11	6	12	5.3	61
CHARLOTTE	224	985.4	1014.0	10.6	- 1.7	4.5	-2.3	15.0	1	- 6.7	17	0	21	- 3.9	60	109	19	37	13	0	5	T	3.8	24	14.8	SW	6	13	6	10	5.2	61
GREENSBORO	272	981.1	1013.7	8.9	- 2.2	3.2	-1.8	16.7	5	- 8.3	23	0	24	- 3.9	65	104	20	30	12	0	84	51	4.1	22	16.5	NW	16	13	5	11	5.3	60
RALEIGH	132	999.2	1013.3	10.0	- 1.7	4.1	-2.0	17.8	5	- 8.9	4	0	23	- 2.8	66	104	22	23	13	0	79	T	4.0	22	10.7*	12	18	11	8	10	5.2	64
WILMINGTON	9	1011.4	1014.3	12.8	2.8	7.7	-1.6	18.9	16+	- 3.3	4	0	8	1.1	67	157	70	49	15	0	T	0	4.7	27	18.8	S	15	14	5	10	5.1	65
WINSTON SALEM	295	977.6	1013.4	9.4	- 1.1	4.1	-1.3	16.7	5	- 7.2	23	0	21	- 3.3	63	110	21	31	11	0	79	25	4.1	24	11.2*	32	16	11	7	11	5.6	
NORTH DAKOTA																																
BISMARCK	502	952.0	1014.8	2.2	-13.3	- 5.6	4.7	10.6	28	-24.4	26	0	29	-10.6	69	6	- 5	3	7	0	71	51	4.2	32	15.2	NW	6	1	10	18	7.6	59
FARGO	274	978.6	1014.4	- 1.1	-13.3	- 7.3	4.6	8.9	29	-25.0	26+	0	29	-11.7	70	7	- 6	3	5	0	157	76	5.5	34	20.1	N	6	9	4	16	6.4	66
WILLISTON	579	944.1		2.8	-11.1	- 4.2	6.7	10.0	28	-25.0	26	0	29			6	- 6	3	6	0	61	25	5.0	SW#	20.1	N	5	2	12	15	7.2	57
OHIO																																
AKRON	369	974.5	1013.7	0.6	- 8.3	- 3.9	-2.1	10.0	5	-16.1	22	0	29	- 8.9	70	46	- 12	14	18	0	419	203	4.5	27	10.3*	29	23	5	10	14	6.7	
CINCINNATI ORS	232			5.0	- 4.4	0.2	-1.5	13.9	5	-10.0	24	0	27			40	- 31	12	15		142	25	3.0	W#	9.4	NW	1					45
CINCINNATI U	169	991.1		5.6	- 3.3	1.3	0.0	15.0	5	- 7.8	24	0	26			36	- 37	14	13		140	0										
CLEVELAND	237	984.7	1013.4	0.6	- 7.8	- 3.6	-1.2	7.8	5	-16.1	22	0	28	- 7.2	76	38	- 21	11	15	0	399	152	4.0	18	11.6	W	8	5	9	15	7.0	49
COLUMBUS	247	983.8	1014.7	2.2	- 7.2	- 2.4	-1.9	11.7	5	-13.9	23	0	27	- 6.1	75	43	- 16	13	11	0	287	76	3.9	29	12.1	NW	16	7	6	16	6.4	57
COLUMBUS U	221			3.3	- 4.4	- 0.8	-1.2	12.8	5	-11.1	24	0	27			39	- 17	19	11	0	224	76										
DAYTON	304	981.0	1014.4	3.9	- 6.1	- 1.1	-0.5	12.8	5	-12.8	24	0	28	- 5.0	76	39	- 20	15	10	0	318	76	4.7	27	11.6	W	1	10	6	13	5.7	58
MANSFIELD	395			1.1	- 8.3	- 3.7	-1.4	11.1	5	-15.6	27+	0	29			34	- 32	15	13	0	409	127						5	9	15	6.8	
TOLEDO	206	987.8	1014.0	1.1	- 7.8	- 3.4	-0.8	9.4	5	-18.9	27	0	28	- 7.8	70	24	- 24	6	10	0	315	102	4.2	20	12.5	SW	7	8	6	15	6.4	66
YOUNGSTOWN	359	969.3	1013.4	- 0.6	- 8.9	- 4.8	-2.3	7.2	5	-14.4	22	0	29	- 8.3	76	35	- 29	11	18	0	437	152	4.4	23	11.2*	25	8	6	6	17	7.0	
OKLAHOMA																																
OKLAHOMA CITY	390	971.6	1016.3	9.4	- 2.2	3.6	-1.6	17.8	2	- 7.8	26+	0	21	- 3.9	63	55	20	34	6	0	15	T	6.4	36	17.4	NW	15	13	8	8	5.0	68
TULSA	206	991.2	1016.5	11.1	- 2.8	4.1	-0.7	18.9	2	- 8.9	22+	0	22	- 4.4	57	55	10	45	6	0	T	0	5.1	18	14.3	SW	29+	12	11	6	4.3	68
OREGON																																
ASTORIA	2	1025.3	1025.9	10.6	1.1	5.7	-0.3	15.6	22	- 3.9	25	0	12	3.3	84	103	-148	24	15	0	0	0	3.8	15	14.8*	20	29	7	6	16	6.6	
BURNS U	1265	877.9		3.9	- 9.4	- 2.8	-1.5	9.4	18	-13.9	12+	0	29			6	- 26	5	4	0	71	152						17	7	5	3.7	
EUGENE	110	1013.1		11.1	0.0	5.3	-0.6	18.3	23	- 3.9	27+	0	17			22	-104	6	10	0	0	0	2.9		11.2*	18	29	9	5	15	6.3	
MEACHAM	1234			2.2	- 5.6	- 1.6	0.1	9.4	23	-10.0	25	0	28			68	- 33	26	13	0	676	940						7	7	15	6.6	
MEDFORD	396	977.9	1027.1	11.1	- 5.0	3.3	-1.2	19.4	22	- 7.8	27+	0	29	- 1.7	77	5	- 56	2	6	0	T	0	1.7	36	9.4*	24	14	13	8	8	4.9	
PENDLETON	452	969.4	1024.6	10.6	- 0.6	5.1	2.1	17.8	23	- 4.4	25+	0	21	- 2.8	61	2	- 28	1	3	0	8	T	4.7	26	13.4*	26	23	11	7	11	5.4	
PORTLAND	6	1020.7	1026.6	10.0	- 0.6	4.5	-1.1	15.6	22	- 5.0	7+	0	20	1.1	82	20	- 87	4	13	0	0	0	2.9	20	13.4	S	29	9	7	13	6.3	48
PORTLAND U	9			11.1	2.8	7.1	0.6	17.2	23	- 0.6	26	0	3			34	- 91	7	10		0	0										
ROSEBURG	154	1007.7		11.7	- 1.1	5.2	-1.1	17.2	23	- 5.0	27+	0	20			26	- 81	8	7	0	T	0	1.6	N#	8.5	S	14	3	14	12	6.8	47
SALEM	59	1019.7	1027.2	10.0	- 0.6	4.6	-0.9	15.6	23+	- 5.0	7	0	19	1.7	86	20	-115	4	11	0	0	0	3.4	18	15.6*	18	29	8	7	14	6.1	
SEXTON SUMMIT R	1169	889.6		7.2	- 0.6	3.4	1.2	15.6	21+	- 5.6	5	0	18			21	- 84	8	7	0	244	102	4.8					14	7	8	4.1	
PACIFIC AREA																																
CANTON ISLAND	3	1007.3	1007.6	31.7	26.1	29.0	0.7	32.8	25	23.3	13	15	0	23.3	74	26	- 28	20	5	0	0	0	5.5	7	11.6*	2	12	5	11	13	6.5	
ENIWETOK	5	1010.8		29.4	25.0	27.3	0.1	30.6	28+	22.8	29+	0	0			27	- 19	5	14	0	0	0	8.6									
TAGUAC GUAM R	110	999.4		27.8	22.2	25.2	-0.5	28.9	28+	21.1	8+	0	0			104	16	22	21		0	0	5.5	NE#	13.0	NE	8					63
JOHNSTON	2	1014.0	1014.7	26.1	22.2	24.3	-0.7	26.7	23+	20.6	28+	0	0	20.0	74	30	- 9	10	15	0	0	0	8.2	8	15.6	W	8	5	22	2	5.0	61
KOROR R	29	1007.2	1009.8	29.4	23.9	26.5	-0.3	31.1	22	22.2	12+	0	0	23.9	88	409	228	127	22	2	0	0	5.1	6	11.6	NE	3	0	0	29	10.0	57
KWAJALEIN	2	1009.7	1009.7	30.0	24.4	27.1	0.4	31.1	28	22.2	18	0	0	22.8	81	78	23	50	12	0	0	0	8.9	6	14.8*	9	18	5	2	22	8.1	
PONAPE R	37	1003.7	1008.0	30.0	25.0	27.6	0.6	31.1	27+	22.8	22+	0	0	22.8	78	502	255	163	21	1	0	0	5.3	6	10.3	E	26	0	0	29	9.7	49
TRUK MOEN ISLAND	2	1008.0	1008.1	29.4	25.0	27.1	0.0	30.0	21+	22.8	4	0	0	23.3	78	274	115	105	21	0	0	0	6.3	5	12.1	NE	14	0	0	29	9.7	42
WAKE	3	1015.0	1015.4	27.8	22.8	25.3	0.2	28.9	3+	20.6	8	0	0	18.3	67	15	- 19	6	6	0	0	0	5.9	6	10.7*	4	17+	10	11	8	5.4	
YAP R	16	1008.7	1009.5	28.9	24.4	26.7	-0.2	30.0	1	22.2	7	0	0	23.3	84	164	46	36	22	0	0	0	7.3	4	16.5	22	7	0	0	29	10.0	86

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Temperature: Average minimum	Temperature: Average	Temperature: Departure from normal	Temperature: Highest	Temperature: Date	Temperature: Lowest	Temperature: Date	No. of days: Max. 32.2 °C or above	No. of days: Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	No. of days: .25 mm. or more	No. of days: With thunderstorms	Snow, Sleet: Total	Snow, Sleet: Maximum depth on ground	Wind: Average speed	Wind: Prevailing direction	Fastest mile (1.6 kilometers): Speed	Fastest mile: Direction	Fastest mile: Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C.	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
PENNSYLVANIA																																
ALLENTOWN	115	998.2	1011.8	2.2	- 7.2	- 2.5	-0.9	10.0	5	-16.1	25	0	28	- 8.3	65	84	17	31	10	0	569	279	5.8	29	15.6*	32	16+	9	10	10	5.5	
ERIE	223	986.1	1013.2	0.6	- 8.3	- 4.0	-0.9	6.1	6	-17.2	11	0	29	- 7.2	78	35	- 24	10	12	0	500	152	6.2	18	14.3*	24	6	4	9	16	6.9	
HARRISBURG	102	998.1	1012.5	2.8	- 6.1	- 1.7	-2.1	12.8	5	-15.0	25	0	28	- 8.3	62	79	21	32	10	0	767	508	4.8	28	14.3	NW	16	8	9	12	5.9	59
PHILADELPHIA	2	1001.0	1011.6	4.4	- 4.4	- 0.1	-0.8	13.9	5	-10.6	23	0	27	- 6.7	63	72	1	18	12	0	315	152	5.2	31	13.9	NE	19	9	8	12	6.0	59
PITTSBURGH	367	982.0	1013.1	1.7	- 7.2	- 2.8	-1.2	11.1	5	-14.4	23	0	27	- 7.8	69	44	- 12	17	16	0	348	178	4.5	26	13.0*	30	2	5	7	17	7.1	47
PITTSBURGH U	228			3.3	- 5.0	- 0.8	-1.6	12.2	5	-11.1	23	0	25			49	- 10	21	14		231	0										47
READING U	81	999.4		3.9	- 4.4	- 0.3	-1.1	11.7	5	-11.7	28	0	27			77	10	31	10	0	528	305	5.5	NW*	23.2	E	6	10	6	13	5.8	51
SCRANTON	287	976.3	1011.5	- 0.6	- 8.9	- 4.7	-2.7	6.7	5	-18.9	23	0	28	-10.0	66	52	1	20	11	0	559	356	3.8	32	13.0	NW	2	6	9	14	6.5	55
WILLIAMSPORT	161	993.1	1012.7	2.2	- 8.3	- 2.9	-1.3	10.6	5	-17.8	25	0	28	- 8.9	65	79	15	38	9	0	640	457	4.3	27	11.6*	31	16	6	9	14	6.4	
RHODE ISLAND																																
BLOCK ISLAND	34	1003.7		2.2	- 5.0	- 1.4	-0.8	7.2	6	-10.0	11	0	26			90	6	36	13	0	307	102						10	8	11	5.6	
PROVIDENCE	17	1002.0	1008.3	2.8	- 7.2	- 2.3	-1.0	8.3	5	-13.3	22	0	27	- 8.9	63	80	1	22	11	0	376	203	6.0	29	15.6*	28	5	11	9	9	5.4	57
SOUTH CAROLINA																																
CHARLESTON	12	1013.2	1015.1	14.4	2.8	8.6	-2.2	19.4	18+	- 3.3	4	0	9	1.7	67	161	77	55	15	0	0	0	4.7	27	21.0Y	W	28	8	10	11	5.8	59
CHARLESTON U	3			13.3	5.0	9.1	-2.2	18.9	18	0.0	12	0	1			168	90	62	12		0	0	4.6		15.6	W	28					
COLUMBIA	66	1002.0	1015.1	12.8	0.0	6.5	-2.6	17.8	15	- 5.0	24+	0	17	- 1.1	65	135	40	37	14	0	0	0	3.6	24	13.0*	23	9+	11	7	11	5.3	63
FLORENCE	45	1008.6	1014.4	12.8	0.6	6.7	-2.7	18.3	16+	- 4.4	4	0	13	- 0.6	63	132	52	47	14	1	0	0	4.2	27	11.6*	26	6	14	4	11	5.2	
GNVLE SPARTANBURG	292	976.9	1014.6	10.6	- 0.6	4.8	-2.7	17.2	1	- 6.1	12	0	19	- 2.8	62	119	15	33	9	0	30	T	4.3	25	16.5	NW	11	11	8	10	5.1	65
SOUTH DAKOTA																																
HURON	391	966.5	1015.3	4.4	-10.6	- 3.2	5.3	14.4	29	-20.6	23	0	29	- 8.9	69	5	- 10	2	7	0	109	25	5.2	32	18.8	S	11	7	9	13	6.5	54
RAPID CITY	965	898.5	1016.2	3.9	- 8.3	- 2.2	2.2	14.4	4	-20.6	23	0	29	- 8.3	66	21	9	10	11	0	226	76	6.1	33	17.9	NW	18+	6	9	14	6.6	64
SIOUX FALLS	433	961.8	1015.2	3.9	- 9.4	- 2.8	4.3	15.0	5	-21.1	23	0	29	- 7.8	72	2	- 22	2	4	0	18	T	5.2	34	16.1*	35	6	8	7	14	6.1	
TENNESSEE																																
BRISTOL	459	958.3	1014.1	6.7	- 3.9	1.4	-3.0	15.0	5	-10.6	29	0	25	- 5.0	66	104	14	33	17	2	279	76	2.7	27	14.3*	24	6	7	6	16	6.8	
CHATTANOOGA	204	987.8	1016.2	9.4	- 0.6	4.4	-2.5	16.1	4	- 7.8	23	0	15	- 1.7	69	115	- 22	31	10	1	3	T	3.9	2	16.1	SW	6	8	5	16	6.6	46
KNOXVILLE	290	979.2	1015.7	7.2	- 2.2	2.3	-3.9	13.3	4	- 8.3	23	0	24	- 3.9	66	104	- 18	31	14	0	132	76	3.8	24	17.9	SW	6	9	4	16	6.2	45
MEMPHIS	80	1001.5	1016.7	10.6	- 1.1	4.6	-2.2	16.7	2	- 6.7	23+	0	21	- 0.6	73	89	- 30	27	10	1	T	T	4.2	29	13.0	NW	15	12	6	11	5.3	78
MEMPHIS U	83			9.4	1.1	5.2	-1.8	16.7	2	- 3.9	22	0	11			83	- 33	29	9	0	T	T										
NASHVILLE	176	995.3	1015.6	8.3	- 2.8	2.9	-2.7	16.1	4	- 9.4	23	0	24	- 2.2	73	83	- 32	23	9	0	107	102	3.9	31	14.8	NW	28	9	5	15	6.4	50
OAK RIDGE	276	981.3		7.2	- 3.3	1.9	-3.2	14.4	4	-10.6	23	0	24			110	- 37	39	13	1	79	51			18.3Y		6	8	8	13	6.0	
TEXAS																																
ABILENE	536	953.4	1016.0	13.9	0.0	7.2	-1.9	22.2	25	- 3.9	27	0	14	- 2.8	54	63	35	43	7	1	109	107	5.0	18	17.0	SE	14	16	6	7	3.8	74
AMARILLO	1099	886.3	1015.5	6.1	- 6.1	0.1	-5.1	17.8	29	-15.0	7	0	28	- 6.7	67	35	19	22	3	0	439	330	7.2	3	18.8	NW	15	13	7	7	4.6	70
AUSTIN	182	995.0	1017.4	15.0	3.3	9.1	-3.0	24.4	10	- 1.7	22	0	5	1.7	65	37	- 28	19	11	1	102	25	4.7	36	15.2	NW	5	9	10	10	5.5	64
BROWNSVILLE	5	1013.2	1015.9	20.6	8.9	14.7	-3.1	26.7	11	2.2	23	0	0	9.4	74	34	- 4	17	8	0	0	0	5.9	12	16.1	NW	21	9	5	15	6.7	50
CORPUS CHRISTI	13	1015.7	1017.0	18.3	5.6	12.1	-3.7	26.1	10+	- 1.7	8	0	4	7.2	76	39	- 4	16	8	0	T	0	6.0	14	17.9	N	21	7	7	15	6.6	48
DALLAS	147	997.9	1017.1	12.8	1.7	7.2	-2.6	19.4	9	- 3.9	22	0	12	- 1.1	60	32	- 33	13	7	1	8	T	5.6	34	15.6	NW	15	14	5	10	4.9	68
DEL RIO	313	981.3		17.2	3.9	10.4		25.0	10	- 2.2	22	0	5			19		13	6	0	T	T			11.2	24	5	11	9	9	4.9	
EL PASO	1194	884.3	1014.3	13.3	- 3.9	4.9	-4.6	19.4	11	- 9.4	22	0	22	-12.8	29	T	- 10	T	0	0	T	T	4.1	29	19.2	NW	14	20	6	3	2.6	91
FORT WORTH	166	995.6	1017.2	12.8	0.6	6.6	-3.0	18.9	9+	- 6.1	22	0	15	- 0.6	64	30	- 27	15	6	1	5	T	5.1	33	17.4*	30	15	14	5	10	4.7	
GALVESTON U	2			13.9	7.8	10.8	-2.9	18.3	10+	1.7	22	0	0			86	13	36	10		T	0	5.4		13.9	NE	24					53
HOUSTON U	12			15.0	7.2	11.1	-2.8	22.2	10	0.6	22	0	0			85	4	35	12		0	0										
HOUSTON	15	1014.3	1017.1	15.0	4.4	9.7	-3.6	23.3	10	- 2.8	22	0	4	3.9	71	126	39	55	10	1	T	T	5.1	32	12.5*	34	18+	9	4	16	6.3	58
LAREDO	152	1000.9	1016.3	20.0	7.2	13.6	-2.9	27.2	10	0.0	8	0	1	3.9	59	34	12	24	8	0	0	0	4.9	13	11.2*	1	21+	7	9	13	6.2	
LUBBOCK	988	901.5	1015.8	10.0	- 5.0	2.5	-3.7	17.2	29+	-14.4	21	0	29	- 6.1	61	4	- 10	2	2	0	84	51	6.8	36	19.2*	25	14	17	7	5	3.4	
MIDLAND	870	913.8	1014.2	14.4	- 2.2	5.9	-3.1	22.2	25	- 7.2	28+	0	24	- 4.4	57	7	- 8	3	4	0	10	T	5.6	18	14.3*	32	27+	13	14	2	4.0	
PORT ARTHUR	5	1015.2	1016.9	15.0	3.9	9.6	-3.8	22.2	10	- 2.8	22	0	5	5.0	78	79	- 34	31	11	1	T	0	5.1	36	17.0	NE	24	10	4	15	6.1	52
SAN ANGELO	580	947.2	1015.8	14.4	0.0	7.4	-2.8	23.9	12	- 3.9	27+	0	17	- 2.2	58	32	9	18	6	1	20	25	4.6	16	13.4*	17	12	14	8	7	4.2	
SAN ANTONIO	241	991.7	1017.2	15.6	4.4	9.9	-3.1	23.3	10	- 2.2	23	0	6	1.1	61	48	6	18	9	1	51	51	4.6	36	13.0	NW	5	10	4	15	5.8	58
VICTORIA	32	1012.4		16.1	5.6	11.0	-3.4	24.4	10	- 1.1	22	0	1			63	4	26	8	3	T	0	5.6		19.7Y		21+	8	4	17	6.7	
WACO	152	995.3	1017.0	13.3	1.7	7.5	-3.3	20.6	10	- 3.9	22	0	10	1.7	70	33	- 29	13	8	1	25	25	5.9	32	14.8*	30	15	13	5	11	4.9	
WICHITA FALLS	303	978.3	1016.4	12.8	- 0.6	6.1	-2.2	20.0	2	- 6.1	27	0	18	- 1.1	66	33	- 2	26	5	1	43	0	5.4	30	15.6*	33	15	15	7	7	4.0	
UTAH																																
MILFORD	1533	845.6		5.0	-11.7	- 3.5	-2.2	15.0	10	-18.9	15	0	29			10	- 8	5	6	0	112	76						18	5	6	3.6	
SALT LAKE CITY	1286	871.6	1025.2	2.2	- 8.9	- 3.4	-3.7	8.9	10	-16.7	14	0	29	- 8.3	73	9	- 21	4	7	0	203	76	3.7	14	11.6	S	24+	12	7	10	4.6	68
WENDOVER	1291	874.3		3.9	- 6.1	- 1.0	-1.4	10.0	18	-10.6	26	0	29			1	- 7	1	1	0	15	25						21	5	3	3.2	

See footnotes at end of table

CLIMATOLOGICAL DATA

METRIC UNITS

FEBRUARY 1964

State and Station	Elevation (ground)	Pressure: Station Ø	Pressure: Sea level	Temperature: Average maximum	Average minimum	Average	Departure from normal	Highest	Date	Lowest	Date	No. of days: Max. 32.2 °C or above	Min. 0 °C or lower	Average dew point	Average relative humidity	Precipitation: Total	Departure from normal	Greatest in 24 hours	No. of days: .25 mm. or more	With thunderstorms	Snow, Sleet: Total	Maximum depth on ground	Wind: Average speed	Prevailing direction	Fastest mile (1.6 kilometers): Speed	Direction	Date	No. of days (sunrise to sunset): Clear, 0-3	Partly cloudy, 4-7	Cloudy, 8-10	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	M.	Mb.	Mb.	°C.	°C.	°C.	°C	°C.		°C.				°C.	%	Mm.	Mm.	Mm.			Mm.	Mm.	M.p.s.		M.p.s.							%
VERMONT																																
BURLINGTON	101	994.5	1009.6	- 2.2	-13.9	- 8.2	-0.1	2.8	6+	-22.8	10	0	29	-13.3	63	15	- 29	5	12	0	224	102	4.3	18	18.9	NW	2	6	7	16	6.9	59
VIRGINIA																																
LYNCHBURG	289	987.2		6.7	- 2.8	2.2	-1.7	18.3	5	- 8.9	23	0	26			113	46	36	10	0	300	127	3.4		12.5	NE	18	11	7	11	5.2	53
NORFOLK	8	1011.4	1012.7	8.9	- 0.6	4.4	-0.9	17.2	6+	- 5.6	13	0	19	- 2.8	66	116	34	23	13	0	147	76	6.2	24	26.4	SW	6	11	8	10	5.4	64
RICHMOND	49	1006.5	1012.8	8.9	- 2.8	2.9	-1.5	18.9	5	- 9.4	4	0	24	- 4.4	64	113	40	31	12	0	259	178	4.1	31	14.8	SW	6	10	9	10	5.3	64
ROANOKE	358	970.3	1013.1	6.7	- 2.8	2.0	-2.0	17.2	5	- 9.4	23+	0	25	- 5.6	60	135	63	44	7	0	513	127	5.0	31	15.6*	29	16	8	10	11	5.8	
WASHINGTON																																
OLYMPIA	58	1018.3	1025.3	9.4	- 1.7	3.9	-1.1	13.9	23	- 6.1	27+	0	18	1.1	86	65	-104	29	11	0	0	0	3.3	18	14.3*	18	29	4	8	17	7.3	
SEATTLE TACOMA	122	1010.8	1025.3	8.9	1.1	5.2	0.3	12.2	22+	- 2.2	8+	0	12	0.6	74	42	- 66	11	14	0	T	0	3.8	20	13.4*	23	29	6	8	15	6.9	
SEATTLE U	4			10.0	3.9	6.8	0.3	13.3	3	0.6	7+	0	0			39	- 60	12	12		T	0			21.5	SW	29					49
SPOKANE	718	952.6	1023.0	2.8	- 6.1	- 1.6	-0.4	5.6	27+	-12.8	14	0	29	- 5.0	79	25	- 22	10	7	0	132	76	3.6	22	18.8	SW	16	7	10	12	6.3	68
STAMPEDE PASS R	1206	883.3		1.1	- 4.4	- 1.4	1.6	7.8	22	- 7.8	12	0	28			223	- 35	47	17	0	1765	4216						7	4	18	7.3	
TATOOSH ISLAND R	31	1021.3	1024.3	8.9	4.4	6.5	0.3	11.1	22	1.7	12	0	0	3.3	82	173	- 48	53	15	0	0	0	6.7	6	25.5	NW	4	3	7	19	7.6	43
WALLA WALLA U	289			10.6	1.1	5.7	2.2	17.8	23	- 3.3	25+	0	10			4	- 34		4	0	T	0										
YAKIMA	323	984.2	1024.5	9.4	- 5.0	2.3	1.2	16.1	23	- 8.9	13	0	28	- 5.0	65	T	- 22	T	0	0	T	0	3.4	28	19.7*	28	17	6	12	11	6.0	
WEST INDIES																																
SAN JUAN P.R.	2	1012.9	1015.8	30.0	20.6	25.3	1.7	32.8	29	17.8	5	4	0	20.6	77	43	- 30	13	11	0	0	0	3.1	5	10.3	E	26	14	10	5	4.5	78
SWAN ISLAND	9	1011.3		28.9	24.4	26.6	0.8	30.0	28+	21.1	19	0	0			10	- 19	5	4		0	0						16	10	3	3.8	
WEST VIRGINIA																																
BECKLEY	763	922.9	1014.7	2.2	- 6.7	- 2.2		13.9	5	-15.6	23	0	28	- 6.1	77	97		19	19	1	782	381	5.0	30	15.6*	15	15	6	4	19	7.4	
CHARLESTON	286	977.7	1014.1	5.0	- 3.9	0.7	-2.4	14.4	5	-13.3	12	0	26	- 4.4	72	91	1	17	17	0	554	178	2.9	23	9.4*	22	16+	7	5	17	7.0	
ELKINS	600	942.0	1013.2	2.8	- 8.9	- 3.1	-3.7	12.2	5	-23.9	12	0	28	- 6.7	77	78	- 5	11	22	0	749	229	3.6	30	13.4*	27	16+	4	6	19	7.6	
HUNTINGTON	252	983.3	1015.0	4.4	- 4.4	0.1	-3.1	13.3	5	-12.8	12	0	27	- 4.4	75	78	1	25	17	0	363	152	3.2	24	10.3*	25	16	8	5	16	6.7	
PARKERSBURG U	187			3.9	- 5.0	- 0.7	-2.6	14.4	5	-13.9	23	0	27			55	- 17	17	15	0	216	51	3.2		11.6	NW	16					43
WISCONSIN																																
GREEN BAY	208	989.8	1013.3	- 0.6	-11.1	- 5.9	1.8	12.2	29	-24.4	24	0	29	-10.0	72	7	- 21	3	5	0	81	25	5.1	22	16.1	SW	29	4	14	11	6.4	50
LA CROSSE	199	989.0	1014.6	2.8	- 8.9	- 2.9	4.1	14.4	29	-17.2	24	0	29	- 9.4	65	2	- 24	1	4	0	25	T	5.1	18	16.1*	22	29	8	9	12	5.9	
MADISON	262	977.6	1014.1	2.8	-10.6	- 3.9	3.0	11.7	29	-19.4	27	0	29	-10.0	63	7	- 22	6	3	0	94	102	4.2	23	15.2	SW	29	8	5	16	6.4	59
MILWAUKEE	205	988.5	1014.3	1.1	- 8.9	- 3.7	1.6	10.0	29	-18.9	24	0	29	- 8.3	71	10	- 25	9	6	0	145	102	5.3	21	15.2	SW	29	11	5	13	5.9	57
WYOMING																																
CASPER	1621	834.5	1018.4	- 0.6	-11.1	- 6.0	-2.8	7.2	10	-18.9	26+	0	29	-11.1	68	18	3	9	12	0	323	152	6.9	23	15.6*	31	22	4	14	11	6.5	
CHEYENNE	1867	808.5	1017.3	0.6	-11.7	- 5.4	-2.8	11.1	10	-17.8	26+	0	29	-13.3	55	6	- 8	3	7	0	84	51	8.6	31	24.1	NW	17	6	13	10	5.8	78
LANDER	1696	833.1	1019.1	1.1	-12.8	- 5.7	-1.3	8.9	9	-20.6	26	0	29	-13.3	57	30	13	10	11	0	625	254	3.0	14	16.5	NW	17	9	11	9	5.4	71
SHERIDAN	1202	882.8	1017.9	2.8	- 8.9	- 2.9	1.6	12.8	4	-18.9	15	0	29	- 7.8	70	21	2	4	14	0	338	102	5.7	31	28.2	NW	5	3	9	17	7.5	56

Data from airport unless otherwise specified. U indicates Urban, R indicates Rural, sites.

Precipitation data in column headed "Greatest in 24 hours" are computed on a 24-hour basis without regard to calendar day and may include precipitation from the last day of the previous month or the first day of the following month.

Wind directions under prevailing direction and fastest mile are to 8, 16, or 36 points of the compass. Directions to 36 points are printed in tens of degrees.

* Value entered in column "Fastest Mile" is the highest observed 1-minute wind speed. This station is not equipped with a recording anemometer from which "Fastest Mile" data can be evaluated.

A Maximum hourly average.

B Number of days maximum 21.1°C. or above for Alaskan Stations.

Y Peak Gust.

\# Wind direction to 8 compass points only.

\+ And also on an earlier date or dates.

Ø Station pressures apply to elevations shown in the "Elevations - Station Pressure" table of the annual issue of this publication.

Data in this table are obtained by conversion from data in the English Units table.

HEATING DEGREE DAYS

(Base 65°F.)

FEBRUARY 1964

State and station	Current season: This month	Current season: Period July through this month	Normals: July through this month
ALABAMA			
Birmingham	639	2577	2243
Huntsville	693	2829	2479
Mobile	488	1793	1382
Montgomery	566	2222	1885
ALASKA			
Anchorage	1297	7373	7785
Annette	754	4275	4812
Barrow	2725	14072	13360
Barter Island	2602	13476	13165
Bethel	1920	9713	9160
Cold Bay	1118	6497	6418
Cordova	1051	6211	6683
Fairbanks	1862	10703	10895
Juneau	835	5551	6210
King Salmon	1464	8020	7885
Kotzebue	2502	11692	10778
McGrath	1901	12053	10497
Nome	2122	10323	9584
St. Paul Is.	1433	7442	7168
Shemya	1083	6295	6258
Yakutat	928	5778	6143
ARIZONA			
Flagstaff	1105	4889	4850
Phoenix (U)	352	1237	
Phoenix	450	1544	1352
Prescott	818	3188	3224
Tucson	497	1590	1541
Winslow	942	3737	3716
Yuma	249	883	779
ARKANSAS			
Ft. Smith	706	2817	2670
Little Rock	673	2768	2650
Texarkana	574	2236	2078
CALIFORNIA			
Bakersfield	399	2033	1731
Bishop	649	3039	3235
Blue Canyon	715	3521	3586
Burbank	298	1145	1170
Eureka (U)	515	2778	3043
Fresno	502	2360	2046
Long Beach	265	933	1251
Los Angeles (U)	169	688	938
Los Angeles	254	879	1315
Mt. Shasta (R)	796	3987	3953
Oakland	359	2008	1992
Point Arguello (R)	418	2170	2312
Red Bluff	377	2186	1959
Sacramento (U)	386	2078	1860
Sacramento	448	2257	1920
Sandberg (R)	691	2964	2842
San Diego	234	853	977
San Francisco (U)	284	1901	1984
San Francisco	404	2060	2033
San Jose (U)	346		
Santa Catalina	255	1026	
Santa Maria	441	1971	1924
Stockton	506	2430	
COLORADO			
Alamosa	1413	6231	6205
Colorado Springs	1119	4281	4584
Denver	1082	4227	4275
Grand Junction	1022	4183	4358
Pueblo	1077	4019	4072
CONNECTICUT			
Bridgeport	1013	4032	4019
Hartford	1129	4638	4570
Middletown	1113	4710	
New Haven	1030	4168	4193
DELAWARE			
Wilmington	962	3880	3690
DIST. OF COLUMBIA			
Washington (U)	848	3213	
Washington	810	3382	3236
FLORIDA			
Apalachicola (U)	401	1497	1095
Daytona Beach	251	957	724
Fort Myers	118	452	380
Jacksonville	361	1408	1044
Key West	29	92	99
Lakeland (U)	223	807	562
Miami	67	244	195
Miami Beach	63	183	132
Orlando	199	781	655
Pensacola	467	1807	1207
Tallahassee	457	1822	1247
Tampa	227	849	581
West Palm Beach	110	336	222
GEORGIA			
Athens	687	2716	2335
Atlanta	713	2835	2361
Augusta	614	2420	1957
Columbus	597	2346	1949
Macon	566	2240	1778
Rome	766	3116	2647
Savannah	493	1935	1520
Thomasville (U)	471	1759	1288
IDAHO			
Boise	1113	4361	4294
IDAHO (Cont'd.)			
Idaho Falls 46W (R)	1591	6488	6156
Idaho Falls 42NW(R)	1666	6685	6416
Lewiston	806	3610	4093
Pocatello	1387	5320	5121
ILLINOIS			
Cairo (U)	757	3109	3040
Chicago (Midway)	1043	4322	4496
Chicago (O'Hare)	1106	4840	
Moline	1097	4671	4798
Peoria	1066	4551	4534
Rockford	1133	4807	5057
Springfield	1034	4243	4197
INDIANA			
Evansville	898	3753	3551
Ft. Wayne	1133	4467	4606
Indianapolis	1037	4328	4242
South Bend	1085	4454	4682
IOWA			
Burlington	1055	4417	4619
Des Moines	1116	4619	4934
Dubuque	1133	5044	5466
Sioux City	1071	4720	5286
Waterloo	1154	5111	5414
KANSAS			
Concordia	958	3926	4087
Dodge City	956	3684	3780
Goodland	1065	4250	4472
Topeka	882	3716	3994
Wichita	831	3464	3812
KENTUCKY			
Lexington	952	3773	3568
Louisville	910	3634	3613
LOUISIANA			
Alexandria	554	2207	
Baton Rouge	444	1709	1364
Lake Charles	484	1706	1241
New Orleans	393	1429	
(Audubon Park)			
New Orleans	432	1653	1216
Shreveport	556	2142	1826
MAINE			
Caribou	1417	6841	6950
Greenville (U)	1413	6644	
Portland	1214	5472	5311
MARYLAND			
Baltimore (U)	847	3262	3129
Baltimore	916	3809	3558
MASSACHUSETTS			
Blue Hill Obs. (R)	1118	4622	4517
Boston	1033	4123	4031
Nantucket	969	3959	3944
Pittsfield	1286	5503	5424
Worcester	1187	4999	4977
MICHIGAN			
Alpena	1244	5598	5674
Detroit (City AP)	1040	4179	4518
Detroit	1128	4726	4666
(M. Wayne Co.)			
Detroit (Willow Run)	1095	4498	4544
Escanaba (U)	1165	5338	5886
Flint	1130	4779	5045
Grand Rapids	1154	4658	4950
Lansing	1133	4737	4977
Marquette (U)	1195	5232	5790
Muskegon	1062	4519	4931
S. Ste. Marie	1388	5920	6431
MINNESOTA			
Duluth	1407	6136	7103
Internat. Falls	1548	6851	7747
Minneapolis	1186	5450	6261
Rochester	1180	5455	6032
St. Cloud	1297	5846	6561
MISSISSIPPI			
Jackson	582	2299	1842
Meridian	636	2502	1898
Vicksburg (U)	539	2154	1690
MISSOURI			
Columbia	917	3752	3673
Kansas City	830	3406	3747
St. Joseph	948	3939	4219
St. Louis (RPC)	843	3458	3476
St. Louis	884	3826	3716
Springfield	838	3483	3499
MONTANA			
Billings	972	4610	5076
Butte	1322	6219	
Glasgow	1077	5353	6676
Great Falls	923	4589	5332
Havre	958	5300	6317
Helena	1089	5420	5860
Kalispell	1187	5642	6251
Miles City	1081	4872	5717
Missoula	1222	5742	5924
NEBRASKA			
Grand Island	1084	4466	4688
Lincoln (U)	971	4050	4427
Norfolk	1167	4806	5217
North Platte	1157	4691	4930
Omaha	994	4328	4748
Omaha N. Omaha AP	1022	4471	5086
Scottsbluff	1120	4533	4900
Valentine	1088	4749	5429
NEVADA			
Elko	1298	5475	5300
Ely	1230	5348	5403
Las Vegas	557	2198	2209
Reno	887	4119	4328
Tonopah	926	4106	
Winnemucca	953	4351	4835
NEW HAMPSHIRE			
Concord	1231	5359	5525
Mt. Washington Obs. (R)	1786	9672	
NEW JERSEY			
Atlantic City	913	3599	3503
Atlantic City (U)	874	3523	
Newark	955	3702	3760
Trenton (U)	961	3728	3695
NEW MEXICO			
Albuquerque	1036	3740	3354
Clayton	1035	3718	3778
Raton	1160	4491	4487
Roswell	853	3281	3261
Silver City	847	3142	
NEW YORK			
Albany	1233	5151	5035
Binghamton	1333	5489	5262
Buffalo	1198	4787	5061
New York (U)	927	3559	3567
New York	938	3585	3517
(LaGuardia)			
Rochester	1181	4839	4810
Schenectady	1193	4961	
Syracuse	1190	4930	4889
NORTH CAROLINA			
Asheville (U)	873	3469	3090
Cape Hatteras (R)	596	2222	1970
Charlotte	720	2811	2485
Greensboro	785	3304	2972
Raleigh	735	3018	2692
Wilmington	548	2175	1894
Winston-Salem	738	3166	2827
NORTH DAKOTA			
Bismarck	1243	5870	6656
Devils Lake (U)	1425	6453	7284
Fargo	1331	5916	6868
Grand Forks FAA	1390	6207	
Pembina	1536	6707	
Williston	1171	5730	
OHIO			
Akron	1154	4679	4591
Cincinnati (U)	885	3495	
Cincinnati	1005	4099	3793
Cincinnati Obs.	940	3765	3642
Cleveland	1139	4581	4636
Columbus	1075	4377	4070
Columbus (U)	993	3978	
Dayton	1010	4161	4171
Mansfield	1146	4626	4831
Toledo	1128	4655	4725
Youngstown	1198	4884	4519
OKLAHOMA			
Oklahoma City	762	2922	3045
Tulsa	734	2912	2919
OREGON			
Astoria	652	3128	3504
Burns (U)	1094	4980	4988
Eugene	671	3020	3297
Meacham	1030	5152	5299
Medford	777	3583	3412
Pendleton	688	3434	3921
Portland (U)	580	2643	2946
Portland	718	3314	3303
Roseburg	679	3008	3126
Salem	710	3274	3267
Sexton Summit (R)	779	4201	4115
PENNSYLVANIA			
Allentown	1079	4366	4299
Erie	1158	4493	4545
Harrisburg	1041	4255	3907
Philadelphia (U)	867	3279	
Philadelphia	955	3953	3847
Pittsburgh (U)	993	3903	3764
Pittsburgh	1095	4457	4399
Reading (U)	968	3790	3733
Scranton	1198	4639	4739
Williamsport	1102	4514	4409
RHODE ISLAND			
Block Island	1024	4010	3830
Providence	1066	4349	4265
SOUTH CAROLINA			
Charleston (U)	477	1810	1479
Charleston	500	1922	1672
Columbia	612	2426	2046
Florence	602	2399	1956
Greenville-Spartanburg	698	2749	
SOUTH DAKOTA			
Huron	1117	5264	5962
Pierre	1130	4855	
Rapid City	1064	4525	5227
Sioux Falls	1101	5108	5836
TENNESSEE			
Bristol	678	3630	3266
Chattanooga	722	2910	2697
Knoxville	834	3434	2820
Memphis (U)	682	2679	2436
Memphis	713	2881	2525
Nashville	787	3203	2837
Oak Ridge	855	2419	2967
TEXAS			
Abilene	575	2132	2163
Amarillo	949	3315	3246
Austin	475	1673	1437
Brownsville	190	784	526
Corpus Christi	324	1096	805
Dallas	576	2195	1948
Del Rio	405	1602	
El Paso	695	2525	2154
Fort Worth	608	2250	1987
Galveston (U)	384	1337	1016
Houston (U)	371	1296	1074
Houston	446	1518	1087
Laredo	246	1062	723
Lubbock	821	2964	2862
Midland	645	2338	2179
Port Arthur	452	1623	1279
San Angelo	562	2194	1848
San Antonio	434	1595	1315
Victoria	376	1302	1000
Waco	559	2057	1694
Wichita Falls	634	2401	2410
UTAH			
Milford	1137	4670	4790
Salt Lake City	1130	4752	4339
Wendover	1002	4440	4413
VERMONT			
Burlington	1380	5953	5614
VIRGINIA			
Lynchburg	834	3425	3216
Norfolk	719	2920	2635
Richmond	801	3338	3035
Roanoke	848	3463	3210
WASHINGTON			
Olympia	747	3460	3657
Seattle (U)	599	2794	3092
Seattle	622	2821	3478
Seattle-Tacoma	682	3314	3636
Spokane	1030	4682	4952
Stampede Pass (R)	1024	6046	6206
Tatoosh Island (R)	613	3391	3785
Walla Walla	653	3260	
Walla Walla (U)	654	3175	3652
Yakima	830	4156	4504
WEST VIRGINIA			
Beckley	1063	4466	
Charleston	917	3848	3364
Elkins	1113	4767	
Huntington	947	3898	3217
Parkersburg (U)	984	3893	3603
WISCONSIN			
Green Bay	1258	5606	5977
La Crosse	1104	4994	5739
Madison	1156	5273	5476
Milwaukee	1141	5043	5141
WYOMING			
Casper	1264	4984	5440
Cheyenne	1229	4760	5181
Lander	1249	5334	6012
Sheridan	1103	4800	5675

Data from airport unless otherwise specified.
U indicates Urban, R indicates Rural, sites.

STORM SUMMARY

FEBRUARY 1964

STATE	TORNADOES					HAILSTORMS				WINDSTORMS				LIGHTNING				‡ HEAVY SNOWSTORMS AND BLIZZARDS				# ICE STORMS				ø ALL OTHER			
	NUMBER	DAYS	DEATHS	INJURIES	†DAMAGE	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS	DEATHS	INJURIES	†DAMAGE PROPERTY	†DAMAGE CROPS
Alabama *																													
Alaska *																													
Arizona *																													
Arkansas *																													
California										1	3	6	7																
Colorado *																													
Connecticut *																													
Delaware														0	0	?	0	0	0	4	0								
Florida	1	1	0	0	0					0	0	4	0																
Georgia *																													
Hawaii *																													
Idaho																			4	4									
Illinois *																													
Indiana *																													
Iowa *																													
Kansas *																													
Kentucky *																													
Louisiana										0	0	5	0													0	0	?	?
Maine																		0	0	4	0								
Maryland																		0	0	4	0								
Massachusetts										0	0	4	0					1	0	5	0					N 0	0	4	0
																										S 0	0	4	0
Michigan *																													
Minnesota *																													
Mississippi																										0	0	?	?
Missouri *																													
Montana										0	8	3	0																
Nebraska *																													
Nevada *																													
New Hampshire																		0	0	4	0								
New Jersey *																													
New Mexico																		1	0	3	0								
New York												3						4	25										
North Carolina										0	0	5	0	0	0	3	0									0	0	4	0
North Dakota *																													
Ohio *																													
Oklahoma																		0	0	4	0	0	0	5	0				
Oregon *																													
Pacific Area *																													
Pennsylvania *																													
Puerto Rico *																													
Rhode Island *																													
South Carolina *																													
South Dakota N																													
Tennessee										0	0	4	0																
Texas	1	1	0	1	?					0	0	4	0					4	0	6	5								
Utah *																													
Vermont																		0	0	4	0								
U.S. Virgin Is. *																													
Virginia *																													
Washington *																													
West Virginia																		0	0	?	0								
Wisconsin *																													
Wyoming *																													

* No occurrence of storms or unusual weather phenomena.
‡ Includes heavy sleet storm.
\# Freezing drizzle and freezing rain, commonly known as glaze.
ø For breakdown of "All Others", and for detailed listing of other storms, see the U. S. Weather Bureau monthly publication STORM DATA.
N No report received by printing deadline.
R Rain
S Storm tides

† Storm damages are placed in categories varying from 1 to 9 as follows:
1 Less than $50
2 $50 to $500
3 $500 to $5,000
4 $5,000 to $50,000
5 $50,000 to $500,000
6 $500,000 to $5,000,000
7 $5,000,000 to $50,000,000
8 $50,000,000 to $500,000,000
9 $500,000,000 to $5,000,000,000

GENERAL SUMMARY OF RIVER AND FLOOD CONDITIONS

FEBRUARY 1964

Flooding during February was mostly light. Only low-lying areas were affected. Damages reported were minor.

ATLANTIC SLOPE DRAINAGE

Snow cover in the Lehigh River Basin ranged from an average of 5 inches from Lehighton, Pa., to 23 inches over the Pocono plateau in Pennsylvania. Amounts of snow in the Lackawaxen River Basin ranged from 8 inches at Hawley, Pa., to 23 inches at Pleasant Mount, Pa.

The water content of the snow cover in the Susquehanna River Basin in Pennsylvania at the end of February averaged about 2.75 inches. Ice was reported on most streams in the northern areas.

Light to moderate flooding occurred on the Neuse and lower Cape Fear Rivers in North Carolina from heavy rainfall on the 6th, 15th, 18th, and 19th. Rainfall on the 6th averaged from around 1 to 1 3/4 inches with local heavier amounts. Rainfall on the 15th averaged about 1 inch. Rainfall on the 18th and 19th ranged from 1/2 inch to 1 inch. The combination of the latter two periods of rainfall resulted generally in the highest stages since March 1963. Stages on the Cape Fear ranged from around bankfull in the middle to near 8 feet above bankfull in the lower portions. On the Neuse River, stages ranged from bankfull to 4 feet in flood. Sharp rises occurred on the Tar, Dan, and the upper portions of the Roanoke and Cape Fear Rivers. No damage was reported from the overflows.

Heavy precipitation on the 16th and 18th caused flooding along streams in South Carolina. This was the second consecutive month that precipitation in the Pee Dee and Santee River Basins was well above average, ranging from 4 to 9 inches. Some minor damage occurred to small grains planted along the banks of the Rocky River. Minor damage occurred to cultivated lands and lowland pastures along the Broad, Congaree, and Wateree Rivers. Logging operations in the lowlands were interrupted with resultant loss of wages and business.

Minor flooding prevailed during most of February on the Savannah River below Augusta, Ga., and on the Ogeechee River. Minor losses were reported to cattle grazing interests and building contractors.

There were two periods of flooding on the Ocmulgee, Altamaha, and Satilla Rivers in Georgia during February. No damage resulted from the high water other than that which normally occurs in the lowlands at such stages. Lumbering operations on the lower Altamaha and Satilla were hampered due to flooding of lowlying timberland.

EAST GULF OF MEXICO DRAINAGE

Weather conditions over the Flint and Apalachicola River Basins during February were similar to those occurring during January. Rainfall occurred at regular and very frequent intervals and temperatures were persistently cooler than normal. The heaviest rains occurred on the 18th, with amounts of 1.0 to 1.5 inches in the upper areas and 2.0 to 2.5 inches in lower areas. These recurring rains kept the rivers high throughout the month, with monthly crests occurring a few days after the heavy rains of the 18th. Flood stages were exceeded only at Albany and Bainbridge, Ga., on the Flint River and at Blountstown, Fla., on the Apalachicola. Only low-lying areas were affected on the Flint at Albany, Ga., where flood stage was exceeded by about 2.5 feet. The Apalachicola River was in flood at Blountstown, Fla., from January 9 through the entire month of February. Little damage resulted from this flooding as only wooded and unpopulated areas were involved. Operations of the lumber industry were retarded somewhat by the high water, but most of the personnel were assigned to higher ground away from the reach of the high water.

Minor flooding occurred on the Pearl River at Bogalusa, La., on the 28th due to moderate rain on the 25th. No damage resulted from the overflow.

MISSISSIPPI SYSTEM

Upper Mississippi Basin.--Temperatures over the Upper Mississippi Basin averaged 4° to 8° above the long-term mean during February. Precipitation averaged much below the mean. Similar conditions occurred during January. Navigation on the Mississippi River opened at La Crosse, Wis., and Guttenberg, Iowa, on February 28.

A comparison of snow depths in the Upper Mississippi Basin on February 29 with that of other years is given in the following table:

COMPARATIVE SNOW DEPTHS (INCHES)

Station	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955
(Minnesota)										
Bemidji	9	4	24	5	5	4	T	14	22	25
International Falls	14	13	23	14	11	17	T	15	12	--
Duluth	12	10	23	8	17	9	3	22	--	--
Alexandria	T	2	17	0	4	1	0	4	12	10
New Ulm	T	2	17	0	T	T	0	0	6	7
Minneapolis	0	3	24	0	2	0	0	T	7	6
Rochester	0	3	13	2	3	13	0	T	6	1
(Wisconsin)										
Park Falls	7	16	33	6	17	10	3	16	20	--
Wausau	11	7	30	1	5	9	0	1	7	--
Portage	0	6	24	0	4	10	T	0	T	--

The first towboat of the season reached the Moline, Ill., area on the 22d for the earliest opening of navigation on record. The previous record was February 23, 1953. All pools below Dam 13 were practically free of ice on the 19th.

Navigation in the Burlington, Iowa, area began on the 14th, about 3 weeks ahead of normal. Some of the tributaries still had a lot of ice at the month's end, but areas free of ice were large. River stages were generally very low throughout the month.

Missouri Basin.--Precipitation was below normal during February in South Dakota. Temperatures were mostly above normal. At the end of the month the only snow cover remaining was in the Black Hills. Elsewhere the ground was bare except for a few scattered snow drifts.

The ice broke up on the Missouri River at Sioux City, S. Dak., between the 10th and 12th. Except for occasional flow ice, the channel was open the remainder of the month. Tributary streams in South Dakota were frozen at the end of February.

Only traces of snow were present over the Elkhorn River Basin in Nebraska at the end of the month. There were many areas free of ice in the Elkhorn and major tributaries by the close of the month.

Ohio Basin.--The ice gorge on the Allegheny River between Lock 8, Mosgrove, Pa., and Lock 9, Rimerton, Pa., remained about stationary during the month. Backwater from this gorge caused gage height on the lower gage at Lock 9, Rimerton to remain 8 to 10 feet above normal, but well below flood stage. Below normal temperatures over the Allegheny Basin from the 20th to the end of the month resulted in a general ice condition along the entire river. The Monongahela and upper Ohio Rivers were generally free of ice throughout the month.

Mild weather during the last 2 weeks of the month melted most of the ice in the Scioto River Basin in Ohio. Most of the snow cover in the basin below Columbus, Ohio, had melted by the end of the month.

The only flooding in the Ohio Basin during the month occurred on the Elk River at Fayetteville, Tenn., on the 16th. This overflow was due to general rains on the 15th and 16th which averaged about 2.5 inches. No damage resulted.

Arkansas Basin.--Ten to 12 inches of snow was reported in the western portion of the Arkansas Basin on the morning of the 5th. Heavy rains occurred in the eastern portion, averaging 1.3 inches from Tulsa, Okla., to Fort Smith, Ark. This produced only minor rises due to the deficiency of precipitation during the last few months. The Arkansas River at Tulsa, Okla., showed a monthly mean stage of 3.0 ft., which was 1.4 ft., below the normal stage.

PACIFIC SLOPE DRAINAGE

The Tualatin River in Oregon, which began flooding at Dilley, Oreg., on the 17th receded within its banks on the 3d. The Pudding River dropped below bankfull stage on the 1st. Stages on all streams of the Willamette Basin receded slowly during February.

FLOOD STAGE DATA

(All dates in February unless otherwise specified)

River and station	Flood stage	Above flood stages -dates From—	Above flood stages -dates To—	Crest * Stage	Crest * Date
ATLANTIC SLOPE DRAINAGE	Ft.			Ft.	
Neuse: Neuse, N. C.	14	8	11	#14.6	9
Smithfield, N. C.	13	8	11	15.4	10
		17	23	16.75	20
Goldsboro, N. C.	14	11	15	#15.0	14
		18	27	#17.6	24
Kinston, N. C.	14	16	29	#15.9	27
Cape Fear: Elizabethtown, N. C.	20	8	9	22.0	8
		18	23	27.6	21
Rocky: Norwood, N. C.	15	18	19	#20.1	19
Lynches: Effingham, S. C.	14	24	26	#14.6	25
Pee Dee: Cheraw, S. C.	30	19	20	#32.6	20
Peedee, S. C.	19	18	Mar. 4	#22.3	24
Black: Kingstree, S. C.	12	20	25	#12.5	22-23
Broad: Blair, S. C.	14	18	20	17.9	20
North Fork Edisto: Orangeburg, S. C.	8	18	23	# 8.7	20
		28	1/	# 8.1	29
Edisto: Givhans Ferry State Park, N. C.	10	Jan. 15	13	#11.9	Jan. 24
		18	1/	#12.4	26
Savannah: Millhaven, Ga.	15	Jan. 15	5	(16.1	Jan. 21
				(15.9	2
		19	29	16.2	25
Clyo, Ga.	11	Jan. 13	29	(14.8	Jan. 24
				(14.5	5
				(15.0	28
Ogeechee: Dover, Ga.	7	Jan. 14	8	8.2	Jan. 19
		22	29	7.5	29
Eden, Ga.	9	3	7	10.5	3-7
		7	29	(11.5	26
				(11.5	29

River and station	Flood stage	Above flood stages -dates From—	Above flood stages -dates To—	Crest * Stage	Crest * Date
ATLANTIC SLOPE DRAINAGE (Cont'd.)	Ft.			Ft.	
Ocmulgee: Abbeville, Ga.	12	Jan. 13	5	(14.2	Jan. 17
				(13.9	2
		20	29	13.4	25,26
Altamaha: Charlotte, Ga.	15	1	13	17.6	7,8
		19	29	18.4	29
Satilla: Atkinson, Ga.	13	1	6	14.6	1
		21	29	16.4	29
Waycross, Ga.	16	25	26	16.5	25
		29	1/	16.7	29
EAST GULF OF MEXICO DRAINAGE					
Flint: Albany, Ga.	20	20	22	22.6	21
Bainbridge, Ga.	25	22	23	25.1	22
Apalachicola: Blountstown, Fla.	15	Jan. 9	29	(20.7	Jan. 13
				(20.3	23
Pearl: Bogalusa, La.	15	28	28	15.1	28
MISSISSIPPI SYSTEM					
Ohio Basin					
Elk: Fayetteville, Tenn.	659	16	16	659.6	16
PACIFIC SLOPE DRAINAGE					
Columbia Basin					
Pudding: Aurora, Oreg.	20	Jan. 19	1	23.5	Jan. 20
				24.3	Jan. 26
Tualatin: Dilley, Oreg.	12	Jan. 17	2	(13.8	Jan. 20
				(14.7	Jan. 25
Farmington, Oreg.	29	Jan. 19	3	33.2	Jan. 21
				34.4	Jan. 27

* Provisional
\# Highest stage observed
1/ Continued at end of month

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb)	ALBANY, N. Y. 1000 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	86	- 8.1	75	278	5.1
1000	29	82			271	4.9
950	29	481	- 6.8	64	304	12.4
900	29	903	- 8.5	62	311	17.3
850	29	1,346	- 9.0	56	306	19.2
800	29	1,814	-10.1	54	307	21.6
750	29	2,310	-11.7	52	299	22.9
700	29	2,837	-13.8	52	291	24.5
650	29	3,394	-16.3	52	283	27.2
600	29	3,997	-19.2	47	278	32.2
550	29	4,633	-23.2	46	273	35.2
500	29	5,331	-27.8	43	271	36.3
450	29	6,075	-33.1		268	40.0
400	29	6,900	-38.6		267	43.5
350	29	7,806	-44.2		265	46.2
300	29	8,827	-49.4		264	54.0
250	29	10,014	-51.8		269	53.4
200	28	11,464	-51.0		267	54.8
175	28	12,335	-50.1		266	54.2
150	28	13,338	-50.6		266	52.4
125	28	14,522	-52.1		264	49.0
100	27	15,963	-54.0		268	45.5
80	26	17,391	-55.3		268	39.4
70	26	18,247	-55.1		268	34.0
60	26	19,228	-55.0		269	28.6
50	26	20,393	-55.3		275	20.4
40	26	21,818	-54.4		282	19.6
30	23	23,658	-54.4		296	16.1
25	22	24,825	-54.0		300	13.2
20	22	26,258	-53.8		299	15.9
15	13	28,110	-52.3			
10						
7						

Standard pressure surface (mb)	ALBUQUERQUE, N. MEX. 835 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	1,619	- 5.2	69	53	2.7
1000	29	183				
950	29	597				
900	29	1,029				
850	29	1,482				
800	29	1,962	- 3.4	47	330	5.6
750	29	2,467	- 5.8	47	323	13.4
700	29	3,009	- 8.7	46	311	16.7
650	29	3,572	-11.9	44	301	19.2
600	29	4,189	-15.4	42	300	20.8
550	29	4,837	-19.6	39	297	25.6
500	29	5,543	-24.0		293	33.2
450	29	6,297	-29.6		289	34.2
400	29	7,134	-35.8		293	35.7
350	29	8,050	-41.7		291	42.5
300	29	9,083	-46.8		295	46.4
250	29	10,278	-51.3		291	47.2
200	27	11,722	-51.8		287	54.6
175	27	12,587	-52.6		286	56.9
150	27	13,579	-54.3		284	50.5
125	27	14,739	-57.8		282	46.6
100	27	16,135	-60.6		285	37.3
80	27	17,520	-61.6		285	27.4
70	26	18,359	-60.4		285	18.6
60	26	19,311	-60.4		290	13.0
50	26	20,451	-58.6		303	9.7
40	26	21,859	-57.3		349	5.2
30	23	23,684	-55.8		39	6.2
25	21	24,850	-54.6		67	8.9
20	22	26,158	-52.8		64	10.5
15	16	28,163	-50.4		48	9.1
10	6	30,822	-47.4			
7						

Standard pressure surface (mb)	AMARILLO, TEXAS 889 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	28	1,095	- 3.9	75	296	5.1
1000	28	158				
950	28	568				
900	28	1,004				
850	28	1,455	- .4	53	308	9.5
800	28	1,938	- 2.2	47	307	11.7
750	28	2,446	- 4.4	44	305	15.2
700	28	2,990	- 7.5	44	289	17.3
650	28	3,558	-11.0	44	285	19.6
600	28	4,173	-14.7	42	287	22.0
550	28	4,823	-19.0	37	285	24.9
500	28	5,529	-24.0	35	279	30.1
450	28	6,283	-29.5		277	35.5
400	28	7,121	-35.3		276	42.3
350	28	8,039	-41.4		277	48.2
300	28	9,073	-47.0		277	55.8
250	28	10,270	-51.0		276	59.8
200	28	11,720	-51.4		274	61.8
175	27	12,589	-52.1		274	62.2
150	27	13,585	-53.7		272	60.6
125	27	14,750	-56.5		275	57.7
100	27	16,156	-59.2		276	50.7
80	27	17,549	-60.4		277	43.9
70	26	18,381	-60.9		278	37.1
60	26	19,340	-59.8		276	27.0
50	24	20,483	-58.6		271	21.4
40	24	21,890	-56.7		280	11.7
30	23	23,719	-55.2		312	7.2
25	22	24,881	-54.4		324	6.4
20	19	26,320	-53.3		8	10.5
15	17	28,182	-51.0		317	4.9
10	6	30,801	-49.4			
7						

Standard pressure surface (mb)	ANCHORAGE, ALASKA 997 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	29	- 7.2	76	184	1.2
1000	29	7			172	5.2
950	29	406	- 7.0	65	139	3.1
900	29	830	- 7.6	64	159	8.5
850	29	1,273	-10.1	65	156	14.6
800	29	1,738	-13.0	69	162	18.1
750	29	2,225	-15.7	71	172	20.4
700	29	2,744	-18.5	68	182	20.4
650	29	3,289	-21.6	62	196	21.0
600	29	3,880	-24.8	56	206	22.7
550	29	4,504	-28.3	52	216	26.4
500	29	5,186	-32.8	50	219	27.4
450	29	5,916	-37.4		220	31.5
400	29	6,725	-43.1		225	36.5
350	29	7,613	-48.5		229	37.5
300	29	8,616	-52.9		234	43.3
250	29	9,788	-53.7		233	47.0
200	26	11,228	-51.5		240	42.2
175	26	12,096	-50.7		240	42.9
150	26	13,101	-50.3		245	43.5
125	26	14,291	-50.4		248	45.1
100	26	15,746	-50.6		251	45.5
80	26	17,205	-49.6		254	45.8
70	26	18,080	-49.6		256	45.3
60	26	19,089	-49.2		258	45.3
50	26	20,285	-48.7		262	43.7
40	25	21,752	-48.6		264	45.5
30	25	23,647	-47.6		270	47.6
25	24	24,849	-47.8		272	48.4
20	23	26,333	-46.5		273	47.8
15	16	28,276	-44.5		267	48.6
10						
7						

Standard pressure surface (mb)	* ANNETTE, ALASKA 1013 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	37	3.2	85	167	7.0
1000	29	140			178	6.6
950	29	552	.6	81	183	16.0
900	29	987	- 2.1	79	199	15.7
850	29	1,440	- 4.5	76	219	16.9
800	29	1,916	- 6.9	74	236	19.6
750	29	2,416	- 9.1	66	247	25.3
700	29	2,950	-11.8	62	257	27.8
650	29	3,513	-15.0	63	258	31.3
600	29	4,117	-18.5	63	267	37.1
550	29	4,756	-22.3	63	266	36.3
500	29	5,456	-27.1	59	268	38.9
450	29	6,204	-32.2	56	268	42.5
400	29	7,031	-38.4	51	269	49.1
350	29	7,935	-45.2		276	50.9
300	29	8,949	-51.6		276	55.4
250	27	10,118	-57.0		287	55.0
200	26	11,528	-58.4		283	46.4
175	26	12,373	-55.7		286	45.6
150	26	13,360	-54.0		285	41.6
125	26	14,532	-53.1		278	38.1
100	26	15,966	-54.0		283	33.0
80	26	17,402	-52.7		287	30.1
70	26	18,269	-52.3		291	26.8
60	26	19,263	-51.8		286	24.7
50	26	20,447	-50.6		293	26.2
40	25	21,900	-50.7		291	22.7
30	25	23,779	-49.1		303	23.7
25	24	24,968	-48.9		306	27.0
20	23	26,437	-47.7		313	26.0
15	22	28,342	-45.4		317	29.1
10	16	31,058	-44.5		322	28.9
7	10	33,518	-41.9		337	26.8

Standard pressure surface (mb)	ATHENS, GA. 986 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	246	.7	78	305	2.7
1000	29	131				
950	29	546	2.5	58	295	8.0
900	29	983	.6	58	290	10.9
850	29	1,440	- 1.2	58	287	16.5
800	29	1,923	- 2.1	47	282	21.8
750	29	2,431	- 4.0	43	280	25.8
700	29	2,976	- 6.3		275	30.5
650	29	3,548	- 8.6		268	38.9
600	29	4,170	-12.1		268	47.8
550	29	4,825	-16.0		266	55.4
500	29	5,542	-20.9		263	62.7
450	29	6,304	-26.5		262	67.4
400	29	7,154	-31.6		261	80.6
350	29	8,089	-36.6		260	89.0
300	29	9,142	-43.0		262	97.3
250	29	10,357	-48.0		261	112.7
200	29	11,811	-52.6		267	121.0
175	29	12,671	-53.6		267	103.7
150	28	13,656	-56.1		267	88.8
125	28	14,806	-59.1		267	77.3
100	28	16,192	-62.6		268	61.6
80	28	17,565	-62.8		268	50.7
70	28	18,389	-62.4		271	36.9
60	28	19,340	-61.5		274	21.8
50	27	20,477	-59.6		279	21.8
40	27	21,877	-57.9		292	14.4
30	26	23,700	-55.7		324	8.0
25	25	24,863	-54.7		342	4.9
20	23	26,299	-53.4		307	5.6
15	20	28,174	-50.8		304	10.9
10	9	30,851	-46.3			
7						
5						

Standard pressure surface (mb)	* BARROW, ALASKA 1015 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	8	-34.2	57	53	4.7
1000	29	115	-30.4	64	74	7.6
950	29	487	-27.1	78	71	10.9
900	29	875	-24.6	82	78	11.1
850	29	1,291	-23.8	77	78	11.3
800	29	1,734	-24.2	70	83	8.7
750	29	2,206	-25.0	68	101	4.1
700	29	2,703	-26.9	65	181	3.7
650	29	3,236	-29.6	66	199	4.9
600	29	3,802	-32.9	66	222	6.6
550	29	4,412	-36.5	61	232	11.7
500	29	5,065	-40.8		236	13.0
450	29	5,777	-45.5		238	14.4
400	29	6,551	-50.6		237	15.2
350	29	7,417	-55.2		246	14.6
300	29	8,392	-58.8		243	18.1
250	29	9,534	-59.1		246	23.1
200	29	10,938	-57.6		254	29.5
175	29	11,781	-57.4		254	34.2
150	28	12,754	-57.7		253	40.6
125	28	13,903	-58.1		255	48.0
100	28	15,309	-57.7		257	58.7
80	28	16,719	-57.1		259	69.7
70	28	17,562	-56.6		260	74.0
60	28	18,564	-55.5		261	82.8
50	27	19,728	-54.7		262	91.9
40	27	21,158	-53.7		264	104.3
30	26	23,006	-52.7		266	116.6
25	26	24,185	-51.7		267	123.2
20	24	25,697	-49.3		270	118.7
15	22	27,625	-46.5		273	114.8
10	17	30,379	-41.1		276	124.7
7	12	32,979	-35.5			
5	6	35,795	-25.7			

Standard pressure surface (mb)	BARTER IS., ALASKA 1013 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	15	-31.3	67	263	1.6
1000	29	104			297	1.7
950	29	478	-25.2	57	72	2.9
900	29	871	-21.6	63	91	4.3
850	29	1,294	-19.5	66	104	4.3
800	29	1,743	-20.5	66	169	1.4
750	29	2,218	-22.3	64	283	5.4
700	29	2,725	-24.2	61	272	7.2
650	29	3,259	-27.0	55	266	9.9
600	29	3,835	-30.2	52	265	12.4
550	29	4,444	-34.2	50	259	15.9
500	29	5,110	-38.7		259	16.9
450	29	5,825	-43.4		255	21.4
400	29	6,610	-48.7		253	25.8
350	29	7,477	-54.0		253	30.5
300	29	8,456	-57.8		255	35.4
250	29	9,602	-58.8		258	37.5
200	29	11,007	-57.0		261	36.9
175	29	11,853	-56.6		264	40.0
150	29	12,830	-56.5		266	44.5
125	28	13,996	-56.3		268	49.7
100	28	15,414	-56.0		269	57.7
80	25	16,831	-55.6		272	66.2
70	24	17,712	-54.7		273	69.2
60	22	18,692	-53.9		273	73.2
50	21	19,865	-53.1		276	77.9
40	19	21,307	-51.8		278	79.1
30	18	23,174	-50.4		280	84.9
25	16	24,374	-48.6		282	88.8
20	13	25,975	-45.6		286	88.0
15						
10						
7						
5						

Standard pressure surface (mb)	BETHEL, ALASKA 996 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	39	-18.8	70	30	6.0
1000	29	5			23	7.8
950	29	393	-14.6	69	61	7.6
900	29	802	-13.4	71	94	4.9
850	29	1,237	-13.6	69	173	3.5
800	29	1,697	-15.0	62	195	7.2
750	29	2,183	-17.3	58	202	8.2
700	29	2,698	-20.0	56	213	10.5
650	29	3,241	-23.2	54	218	12.0
600	29	3,826	-26.1	48	213	15.3
550	29	4,448	-29.9	45	209	19.0
500	29	5,124	-34.2	47	213	21.0
450	29	5,849	-39.2		208	24.9
400	29	6,653	-44.4		198	24.3
350	29	7,536	-49.9		201	29.1
300	29	8,534	-53.6		211	31.7
250	29	9,707	-52.8		220	35.2
200	29	11,154	-50.4		225	38.9
175	29	12,026	-49.8		228	39.8
150	29	13,035	-49.2		227	43.3
125	28	14,231	-48.3		232	44.5
100	28	15,701	-47.8		237	45.5
80	28	17,174	-47.7		243	46.8
70	27	18,060	-47.9		244	47.6
60	27	19,071	-47.7		244	48.4
50	26	20,277	-47.2		251	46.4
40	26	21,754	-47.0		253	48.0
30	24	23,672	-45.6		253	48.6
25	21	24,891	-44.9		254	46.0
20	18	26,409	-43.4		259	46.0
15	11	28,445	-40.1		242	50.1
10						
7						
5						

Standard pressure surface (mb)	BISMARCK, N. DAK. 953 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	505	- 9.6	76	321	4.7
1000	29	128				
950	29	532			313	5.8
900	29	951	- 5.8	66	298	14.6
850	29	1,399	- 6.3	59	304	16.1
800	29	1,872	- 8.2	53	308	19.6
750	29	2,369	-10.8	49	311	21.8
700	29	2,898	-13.7	45	311	22.5
650	29	3,455	-16.9	39	313	22.9
600	29	4,054	-20.3	34	309	23.7
550	29	4,690	-24.5	37	307	24.5
500	29	5,381	-29.1	38	307	25.8
450	29	6,120	-34.2		304	28.0
400	29	6,942	-39.9		307	30.9
350	29	7,841	-46.2		292	30.3
300	29	8,850	-52.5		298	30.3
250	29	10,018	-55.7		297	31.5
200	29	11,445	-53.2		301	32.4
175	29	12,307	-51.6		297	31.9
150	29	13,308	-51.2		296	31.5
125	29	14,491	-51.8		293	30.3
100	29	15,935	-52.7		296	28.7
80	29	17,375	-52.8		300	25.1
70	29	18,241	-53.1		303	22.7
60	29	19,231	-52.7		309	22.0
50	29	20,408	-52.7		314	17.1
40	29	21,850	-52.7		320	15.0
30	29	23,707	-52.5		332	15.9
25	28	24,888	-51.8		344	16.5
20	26	26,327	-52.1		351	18.6
15	19	28,195	-51.5		351	21.0
10	12	30,823	-48.3			
7						
5						
4						

Standard pressure surface (mb)	BOISE, IDAHO 923 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	868	- 5.4	90	152	2.9
1000	29	229				
950	29	636				
900	29	1,063	- 2.7	68	343	1.6
850	29	1,518	- 2.5	54	322	7.2
800	29	1,997	- 4.7	51	319	12.0
750	29	2,499	- 7.5	50	319	15.2
700	29	3,037	- 9.9	46	326	16.9
650	29	3,602	-13.1	40	330	19.2
600	29	4,212	-16.2	34	332	23.7
550	29	4,859	-20.2		329	24.5
500	29	5,563	-24.8		329	24.9
450	29	6,317	-30.1		332	24.5
400	29	7,151	-36.3		332	30.1
350	29	8,064	-43.1		330	31.3
300	29	9,087	-50.4		331	35.7
250	29	10,258	-57.0		329	34.4
200	29	11,663	-57.3		322	31.7
175	28	12,517	-55.2		310	33.6
150	28	13,501	-54.8		306	34.2
125	28	14,666	-55.5		307	30.9
100	28	16,088	-56.5		308	26.4
80	28	17,504	-56.4		314	16.7
70	28	18,353	-56.3		319	12.8
60	28	19,333	-55.4		336	10.7
50	28	20,496	-54.8		1	10.7
40	26	21,920	-53.9		20	10.5
30	23	23,778	-52.8		44	15.2
25	23	24,959	-51.3		47	17.7
20	20	26,412	-50.2		56	25.1
15	18	28,307	-50.1			
10						
7						
5						
4						

Standard pressure surface (mb)	* BROWNSVILLE, TEXAS 1015 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	7	11.8	86	38	3.1
1000	29	130	13.6	78	81	4.3
950	29	559	11.9	72	135	5.8
900	29	1,014	10.6	67	180	8.7
850	29	1,489	8.8	64	205	11.7
800	29	1,990	7.3	55	236	14.4
750	29	2,515	6.1	47	246	18.6
700	29	3,083	3.3	43	255	26.0
650	29	3,674	- .2	41	262	33.0
600	29	4,318	- 3.9	42	258	40.2
550	29	4,993	- 8.0	43	259	50.3
500	29	5,736	-12.1	37	262	61.8
450	29	6,529	-15.1	37	262	76.1
400	29	7,416	-21.7	40	262	85.1
350	29	8,385	-28.6	38	262	92.5
300	29	9,471	-37.0	35	262	103.1
250	29	10,707	-46.3		263	101.8
200	29	12,159	-55.5		261	109.9
175	29	13,006	-59.1		261	102.4
150	29	13,992	-63.0		262	96.7
125	28	15,071	-68.0		262	78.7
100	28	16,395	-72.9		262	57.9
80	28	17,704	-72.6		262	38.3
70	28	18,499	-70.7		264	24.1
60	28	19,414	-67.3		270	15.7
50	28	20,523	-63.2		257	5.1
40	26	21,908	-60.0		274	2.5
30	23	23,718	-56.4		264	8.9
25	23	24,881	-54.6		268	9.9
20	20	26,312	-52.4		261	12.0
15	18	28,188	-49.2		263	18.8
10	11	30,892	-43.9			
7	6	33,354	-34.9			
5						
4						

Standard pressure surface (mb)	BUFFALO, N. Y. 985 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	218	- 6.9	80	256	3.5
1000	29	99				
950	29	502	- 6.4	69	279	9.5
900	29	923	- 8.0	64	290	14.2
850	29	1,367	- 9.0	56	286	15.9
800	29	1,835	-10.5	52	288	16.9
750	29	2,332	-12.3	50	286	18.5
700	29	2,855	-14.4	47	284	23.1
650	29	3,414	-17.4	46	284	25.4
600	29	4,010	-20.5	45	281	27.2
550	29	4,648	-24.1	45	282	29.3
500	29	5,339	-28.6	46	284	31.7
450	29	6,083	-33.7		280	33.6
400	29	6,903	-39.2		280	37.7
350	29	7,805	-45.1		276	40.2
300	29	8,823	-50.2		272	46.0
250	29	10,006	-52.5		267	52.4
200	29	11,451	-51.2		265	53.2
175	29	12,321	-49.9		266	52.8
150	29	13,328	-50.7		266	46.2
125	29	14,511	-52.3		266	45.8
100	29	15,952	-53.2		267	40.6
80	29	17,385	-54.5		266	31.1
70	29	18,244	-55.1		267	29.7
60	29	19,224	-55.0		269	27.0
50	29	20,390	-54.5		281	21.6
40	29	21,820	-54.2		290	16.5
30	28	23,666	-53.8		293	15.5
25	28	24,839	-53.5		300	15.2
20	28	26,276	-53.1		300	17.5
15	23	28,120	-51.6		317	16.3
10	11	30,738	-50.2			
7						
5						
4						

Standard pressure surface (mb)	* BURRWOOD, LA. 1016 MB Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	3	11.5	80	20	4.9
1000	29	133	11.7	71	12	6.0
950	29	560	9.2	69	339	2.1
900	29	1,008	7.3	61	250	7.4
850	29	1,477	6.1	49	255	16.5
800	29	1,973	4.6	43	259	22.3
750	29	2,496	3.2	33	264	27.4
700	29	3,055	.8	34	263	33.6
650	29	3,646	- 1.9	33	261	40.0
600	29	4,278	- 6.0	37	263	48.8
550	29	4,947	-10.3	41	262	55.4
500	29	5,683	-14.3	44	258	62.9
450	29	6,476	-17.2	39	258	75.4
400	29	7,344	-24.5	36	259	85.3
350	29	8,304	-30.7	34	262	95.6
300	29	9,381	-38.3	34	262	102.6
250	29	10,612	-46.6		261	109.9
200

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb)	CAPE HATTERAS, N. C. 1012 MB						CARIBOU, ME. 981 MB						CHARLESTON, S. C. 1014 MB						* COLD BAY, ALASKA 994 MB						COLUMBIA, MO. 986 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	4	5.5	77	322	6.4	29	191	-11.9	74	297	5.1	29	13	4.8	81	294	4.3	29	30	- 3.1	81	202	2.1	29	238	- 2.2	77	253	1.2
1000	29	97	5.4	67	319	11.3	29	45					29	124	5.9	72	309	6.2	29	21			118	3.9	29	125				
950	29	508	4.0	64	296	16.7	29	438	-11.1	67	306	12.6	29	543	4.8	63	304	10.3	29	384	- 5.2	76	207	2.5	29	534	- 1.0	64	270	5.8
900	29	954	2.4	59	289	17.3	29	854	-11.6	63	320	15.7	29	984	3.0	60	280	14.2	29	807	- 7.9	82	202	5.1	29	965	- 2.9	61	295	10.1
850	29	1,415	.6	58	273	18.6	29	1,393	-11.6	57	320	15.3	29	1,446	1.5	50	266	19.8	29	1,250	-10.0	76	209	8.0	29	1,416	- 4.7	56	298	12.6
800	29	1,900	- 1.3	51	264	23.7	29	1,757	-12.8	54	305	15.7	29	1,933	.4	41	260	27.6	29	1,715	-12.7	66	216	10.9	29	1,891	- 7.0	49	296	13.2
750	29	2,412	- 3.4		262	29.9	29	2,249	-14.4	51	302	18.6	29	2,449	- 1.1		260	33.4	29	2,206	-15.3	66	218	15.0	29	2,391	- 9.3	45	294	13.6
700	29	2,957	- 5.6		261	37.7	29	2,769	-16.6	49	298	19.6	29	2,998	- 3.5		261	39.4	29	2,723	-17.9	66	219	18.5	29	2,924	-11.8	46	290	15.2
650	29	3,529	- 8.6		260	42.3	29	3,310	-18.7	46	289	21.2	29	3,577	- 6.2		264	45.1	29	3,274	-21.0	63	221	21.8	29	3,484	-14.2	41	283	19.0
600	29	4,151	-12.3		260	49.3	29	3,917	-21.6	45	283	22.9	29	4,204	- 9.5		264	57.1	29	3,861	-24.6	59	221	24.1	29	4,092	-17.7	39	279	23.9
550	29	4,805	-16.1		261	55.9	29	4,551	-25.3	44	282	26.8	29	4,868	-13.3		263	60.8	29	4,489	-28.7	52	221	27.4	29	4,735	-22.0	42	280	27.2
500	29	5,523	-20.6	38	260	65.1	29	5,240	-29.6	42	280	28.7	29	5,491	-18.2		261	66.6	29	5,165	-32.8	49	222	30.5	29	5,433	-26.6	41	276	29.5
450	28	6,285	-25.7		259	69.7	29	5,982	-34.7	42	272	32.1	29	6,364	-23.6		260	76.1	29	5,898	-37.3	51	225	33.4	29	6,178	-31.9		274	32.4
400	28	7,138	-30.7		262	76.7	29	6,798	-40.2		269	33.8	29	7,223	-29.6		261	83.7	29	6,706	-42.8		226	40.0	29	7,008	-37.9		271	37.3
350	28	8,075	-36.2		261	89.4	29	7,698	-45.9		262	38.7	29	8,167	-34.8		264	85.7	29	7,596	-47.3		224	45.6	29	7,915	-44.1		270	43.5
300	28	9,132	-42.0		265	99.8	29	8,721	-51.0		260	43.1	29	9,228	-41.7		264	90.1	29	8,606	-51.5		227	49.7	29	8,987	-49.1		273	46.0
250	28	10,352	-46.9		268	101.8	29	9,893	-52.2		257	44.3	29	10,446	-47.6		265	105.5	29	9,785	-51.9		228	49.0	29	10,124	-51.8		273	50.9
200	28	11,816	-51.2		269	102.8	29	11,345	-49.9		259	47.2	29	11,903	-53.1				28	11,236	-49.8		235	42.2	29	11,570	-51.1		275	51.1
175	28	12,681	-52.8		267	88.6	29	12,220	-48.9		259	44.3	29	12,759	-55.4				28	12,106	-48.2		232	40.6	28	12,438	-51.2		272	54.4
150	28	13,672	-54.7		266	85.7	29	13,231	-49.8		258	44.9	29	13,735	-58.3				28	13,122	-47.6		233	41.6	28	13,438	-52.3		271	50.9
125	28	14,829	-58.0		266	69.9	29	14,621	-50.6		260	40.8	29	14,874	-61.5				28	14,326	-47.9		232	39.0	28	14,612	-53.9		272	45.5
100	28	16,226	-61.2		266	57.5	29	15,869	-52.3		263	42.0	28	16,246	-64.4				25	15,800	-48.2		233	36.7	28	16,038	-55.4		275	36.3
80	28	17,610	-61.4		268	44.3	29	17,311	-53.1		264	33.8	28	17,608	-64.9				25	17,270	-48.3		235	34.2	27	17,451	-57.0		274	29.9
70	27	18,443	-61.1		270	37.5	29	18,174	-53.5		265	32.6	28	18,436	-64.1				25	18,158	-48.4		237	32.6	27	18,297	-56.9		276	26.0
60	27	19,397	-60.0		268	26.2	29	19,163	-53.2		269	29.7	28	19,372	-62.3				25	19,165	-48.0		238	30.1	27	19,273	-56.7		285	20.0
50	26	20,540	-58.4		268	15.2	29	20,337	-54.0		269	28.0	28	20,505	-60.1				25	20,369	-47.6		241	26.8	26	20,428	-56.6		300	13.4
40	25	21,950	-55.6		289	11.8	28	21,774	-53.9		275	24.1	28	21,906	-58.0		307	9.3	25	21,845	-46.6		244	27.0	26	21,845	-55.7		320	10.3
30	25	23,781	-55.0		319	5.4	28	23,622	-54.1		282	20.4	26	23,727	-55.8		337	6.2	25	23,754	-46.4		246	24.9	22	23,683	-54.5		1	9.5
25	25	24,949	-54.0		342	4.1	28	24,791	-54.7		285	22.1	25	24,893	-54.3		328	5.8	25	24,965	-45.9		249	24.3	21	24,850	-54.0		17	11.1
20	24	26,387	-52.3		6	5.4	27	26,221	-54.3		287	24.7	22	26,327	-51.9		349	4.1	25	26,454	-44.6		244	23.5	20	26,287	-52.8		19	14.0
15	24	28,264	-48.3		338	5.6	27	28,074	-52.8		297	25.1	17	28,211	-48.7				25	28,383	-43.6		252	22.3	17	28,160	-50.6		30	15.9
10	23	30,968	-42.5		284	16.1	25	30,711	-49.0		293	38.3							21	31,129	-40.7		259	15.2	6	30,811	-46.2			
7	19	33,400	-37.6		266	39.2	18	33,035	-46.0		282	59.4							19	33,585	-40.0		273	15.2						
5	10	35,687	-36.1				10	35,217	-44.0										10	35,814	-41.2									

Standard pressure surface (mb)	DAYTON, OHIO 978 MB						DEL RIO, TEXAS 979 MB						DENVER, COLO. 835 MB						DODGE CITY, KANS. 923 MB						EL PASO, TEXAS 881 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	297	- 4.8	75	302	2.5	25	324	6.8	67	61	2.5	29	1,611	- 6.2	61	278	3.9	29	792	- 3.8	77	309	5.1	29	1,193	- .3	38	298	2.1
1000	29	119					25	140					29	177					29	153					29	163				
950	29	525	- 4.0	74	290	5.2	25	561	7.1	61	117	2.1	29	586					29	580					29	581				
900	29	949	- 5.6	65	301	8.9	25	1,006	5.3	56	192	3.5	29	1,020					29	991	- 1.2	61	311	9.1	29	1,026				
850	29	1,396	- 6.5	60	294	12.0	25	1,472	4.1	50	234	8.4	29	1,470					29	1,446	- 2.2	53	322	13.8	29	1,483	3.7	31	297	3.9
800	29	1,868	- 8.2	52	294	15.9	25	1,964	2.8	41	258	14.0	29	1,947	- 4.4	47	312	9.7	29	1,926	- 5.0	49	320	14.6	29	1,974	1.1	32	288	10.5
750	29	2,369	-10.5	48	285	19.0	25	2,486	1.1	39	269	21.4	29	2,452	- 7.5	47	326	15.2	29	2,431	- 6.6	44	314	15.7	29	2,491	- 1.7	32	285	15.9
700	29	2,896	-12.7	44	283	19.8	25	3,038	- 1.6		269	24.1	29	2,987	-11.2	46	329	15.5	29	2,969	- 9.4	44	304	17.3	29	3,037	- 4.2		281	21.0
650	29	3,457	-15.4	41	280	22.1	25	3,621	- 5.2		264	28.9	29	3,552	-14.8	52	333	16.7	29	3,533	-12.8	44	302	18.3	29	3,613	- 7.5		280	23.5
600	29	4,060	-18.3	41	279	25.1	25	4,248	- 8.7		264	36.1	29	4,153	-18.6	51	326	18.3	29	4,145	-16.5	45	296	21.4	29	4,238	-11.4		280	28.7
550	29	4,701	-22.1		279	29.3	25	4,913	-12.8		267	42.7	29	4,795	-22.7	48	318	19.6	29	4,792	-20.7	45	292	22.9	29	4,890	-15.8		279	34.2
500	29	5,400	-26.7	42	277	31.9	25	5,638	-17.6		264	49.1	29	5,489	-27.2	43	316	21.6	29	5,493	-25.4	42	290	24.7	29	5,613	-20.7		280	41.2
450	29	6,146	-32.0		276	35.5	25	6,418	-22.4		265	57.1	29	6,234	-32.6		309	23.3	29	6,242	-31.1	38	287	26.8	29	6,381	-26.5		278	45.8
400	29	6,976	-37.9		275	37.1	25	7,277	-27.5		261	73.8	29	7,059	-38.8		311	26.4	29	7,073	-37.6		283	29.7	29	7,225	-32.5		276	48.6
350	29	7,882	-44.5		273	42.9	25	8,227	-33.6		261	86.2	29	7,964	-44.7		306	31.3	29	7,981	-43.6		278	35.0	29	8,156	-37.7		275	63.3
300	29	8,902	-49.6		267	50.3	25	9,294	-40.2		263	108.7	29	8,982	-50.2		303	31.3	29	9,004	-49.4		274	42.7	29	9,207	-43.4		270	78.1
250	29	10,087	-52.0		266	55.8	25	10,516	-46.8		266	113.6	29	10,162	-53.4		299	34.0	29	10,190	-52.0		273	53.8	29	10,419	-48.5		275	90.3
200	29	11,534	-50.8		264	57.1	25	11,978	-52.9		263	110.1	29	11,599	-52.6		288	37.1	29	11,634	-51.6		271	55.0	29	11,875	-51.6		273	93.6
175	29	12,403	-50.9		267	59.2	25	12,834	-56.1		262	98.9	29	12,464	-52.1		284	36.5	29	12,502	-51.1		271	55.9	29	12,738	-53.5		272	85.7
150	29	13,404	-51.9		265	56.1	25	13,880	-59.7		263	85.7	29	13,460	-52.7		283	38.7	29	13,502	-52.1		280	47.4	29	13,724	-56.5		273	77.1
125	29	14,579	-54.0		266	52.3	25	14,933	-63.8		266	73.8	29	14,535	-54.2		286	35.5	29	14,576	-54.5		273	49.1	29	14,870	-60.4		270	58.9
100	29	16,006	-55.9		268	46.6	25	16,289	-67.5		265	57.5	29	16,061	-56.0		286	29.3	29	16,097	-57.0		275	40.0	29	16,249	-64.0		275	46.6
80	29	17,424	-56.6		271	38.1	25	17,627	-58.7		269	36.9	29	17,477	-56.7		286	22.1	29	17,507	-57.6		278	28.9	29	17,611	-64.9		279	33.6
70	29	18,270	-57.2		273	33.0	25	18,434	-67.3		270	28.7	28	18,320	-57.2		291	19.2	29	18,352	-57.9		283	22.3	29	18,430	-63.8		281	25.3
60	29	19,244	-57.3		274	26.8	25	19,361	-64.8		272	21.2	28	19,296	-57.1		304	13.8	29	19,322	-57.7		291	17.3	29	19,375	-62.4		287	15.7
50	29	20,398	-56.6		276	21.0	25	20,478	-62.6		272	8.9	26	20,451	-56.5		326	9.1	28	20,474	-57.2		297	15.0	28	20,503	-60.3		300	6.0
40	25	21,815	-55.3		288	18.6	25	21,867	-58.5		293	6.8	28	21,872	-54.8		351	8.2	28	21,888	-56.0		318	8.5	28	21,902	-57.8		11	5.1
30	23	23,653	-54.8		299	10.9	24	23,680	-56.9		286	4.3	28	23,714	-54.2		14	9.5	28	23,724	-54.6		4	8.4	28	23,724	-55.8		58	5.8
25	21	24,818	-54.3		301	9.9	24	24,840	-55.3		276	2.5	27	24,887	-53.4		30	13.8	28	24,894	-53.8		21	9.7	26	24,883	-54.4		58	7.8
20	20	26,251	-52.5		310	9.7	22	26,271	-53.3		295	5.4	26	26,328	-53.1		35	13.6	24	26,329	-52.9		25	9.9	25	26,317	-52.7		55	6.6
15	16	28,125	-50.7		292	16.1	19	28,125	-50.7		271	8.0	21	28,190	-50.3		41	15.0	17	28,188	-51.4		21	12.8	15	28,202	-48.8			
10	8	30,734	-48.7				9	30,802	-45.3				15	30,850	-48.1		16	19.8	5	30,831	-49.1									
7													7	33,204	-44.1															

Standard pressure surface (mb)	FLY, NEV. 810 MB						* FAIRBANKS, ALASKA 988 MB						FORT WORTH, TEXAS 996 MB						GLASGOW, MONT. 931 MB						GRAND JUNCTION, COLO. 853 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	1,908	-10.5	83	196	2.3	29	135	-17.7	66	14	2.3	29	180	2.7	69	303	1.9	29	696	- 5.2	80	303	4.7	29	1,474	- 5.1	54	80	2.9
1000	29	249					29	45					29	148					29	130					29	200				
950	29	658					29	433	-14.1	60	78	3.9	29	567	3.8	58	294	3.3	29	533					29	611				
900	29	1,087					29	843	-14.5	65	158	5.6	29	1,003	2.6	49	293	5.6	29	963	- 3.4	64	298	15.3	29	1,047				
850	29	1,530					29	1,275	-14.5	67	195	8.2	29	1,464	.8	47	286	10.1	29	1,414	- 5.0	61	307	25.1	29	1,498			88	3.5
800	29	2,000	- 6.3	62	309	3.3	29	1,734	-15.7	70	207	14.4	29	1,951	- .6	39	283	13.0	29	1,889	- 7.3	59	309	26.8	29	1,976	- 5.2	43	79	2.3
750	29	2,510	- 6.5	48	352	9.7	29	2,216	-17.4	72	211	18.8	29	2,467	- 3.0	36	287	17.3	29	2,387	-10.1	57	308	28.9	29	2,479	- 8.1	47	341	5.3
700	29	3,043	- 8.9	44	349	15.3	29	2,734	-20.0	73	217	20.4	29	3,009	- 5.9	34	283	22.0	29	2,919	-12.9	55	310	30.1	29	3,013	-11.3	53	332	8.0
650	29	3,613	-11.5	39	346	21.0	29	3,273	-23.2	68	228	22.1	29	3,586	- 9.2	33	276	28.2	29	3,479	-16.2	49	313	29.3	29	3,575	-14.4	54	325	11.3
600	29	4,223	-14.7	32	343	24.1	29	3,862	-26.7	66	225	21.4	29	4,201	-13.2		273	34.8	29	4,079	-19.7	45	318	30.9	29	4,181	-17.6	48	329	15.2
550	29	4,874	-18.7		342	26.8	29	4,476	-30.6	63	225	23.7	29	4,861	-17.2		269	39.0	29	4,714	-24.0	41	318	31.7	29	4,826	-21.8	44	331	18.8
500	29	5,581	-23.1		339	29.1	29	5,155	-35.1	62	225	25.8	29	5,568	-21.9		265	45.3	29	5,408	-28.7	39	320	33.2	29	5,522	-26.4	40	324	22.3
450	29	6,342	-28.5		333	33.0	29	5,879	-40.0		223	27.0	29	6,234	-27.0		265	49.7	29	6,148	-34.2	41	320	35.5	29	6,272	-31.6		317	24.9
400	29	7,178	-34.8		325	32.6	29	6,678	-45.1		228	30.1	29	7,178	-32.4		264	56.5	29	6,969	-40.2		321	36.5	29	7,098	-38.0		319	27.4
350	29	8,095	-42.0		322	35.4	29	7,559	-50.3		233	32.4	29	8,109	-38.2		264	67.8	29	7,868	-46.4		320	36.1	29	8,005	-44.2		319	32.2
300	29	9,122	-49.4		318	31.1	29	8,553	-55.1		233	33.0	29	9,135	-44.4		261	82.0	29	8,877	-52.3		322	38.9	29	9,026	-49.3		321	34.0
250	29	10,298	-55.9		306	31.5	29	9,713	-55.8		241	34.6	29	10,361	-48.9		263	89.2	29	10,044	-56.2		322	40.2	29	10,256	-53.7		309	39.2
200	29	11,711	-56.0		306	39.4	29	11,140	-53.6		247	39.8	29	11,819	-51.4		264	92.9	29	11,464	-55.2		320	37.7	29	11,640	-53.1		301	42.7
175	29	12,564	-54.7		303	39.2	29	12,000	-52.9		250	42.2	29	12,684	-53.0		265	86.8	29	12,319	-53.7		317	35.0	29	12,504	-52.2		296	39.2
150	29	13,550	-55.0		297	40.8	29	12,896	-51.9		253	46.2	29	13,672	-56.0		268	77.9	29	13,314	-51.9		320	34.6	29	13,500	-53.2		294	36.5
125	29	14,712	-56.3		295	38.5	29	14,176	-52.0		256	49.7	29	14,821	-59.4		268	66.4	28	14,494	-52.5		313	32.4	29	14,669	-55.1		292	35.5
100	29	16,123	-58.3		295	29.5	29	15,621	-52.1		258	53.4	29	16,208	-62.4		268	51.9	28	15,934	-52.9		317	28.7	29	16,088	-57.3		291	30.5
80	29	17,523	-58.9		299	21.6	28	17,061	-51.5		261	36.7	29	17,582	-63.4		268	38.3	27	17,371	-53.0		310	26.0	29	17,497	-57.8		293	23.9
70	28	18,571	-58.5		311	16.7	27	17,931	-51.0		263	59.6	29	18,409	-62.8		272	26.8	26	18,228	-53.0		316	22.5	29	18,344	-57.6		293	16.5
60	28	19,629	-57.9		318	10.1	25	18,924	-50.5		266	63.3	29	19,356	-61.7		276	19.4	26	19,221	-53.6		316	20.6	28	19,312	-58.0		304	14.2
50	28	20,681	-56.8		346	5.4	24	20,114	-49.8		267	66.0	28	20,487	-59.9		288	12.6	26	20,394	-52.9		320	19.0	28	20,462	-57.5		325	9.1
40	26	21,898	-55.4		34	9.3	24	21,575	-49.5		269	69.3	26	21,892	-57.6		295	6.8	25	21,831	-52.5		334	16.5	28	21,878	-55.8		354	8.5
30	26	23,735	-53.9		54	11.5	21	23,472	-49.5		272	77.5	26	23,716	-55.9		340	5.8	25	23,691	-52.1		345	16.1	26	23,712	-54.4		31	9.1
25	25	24,811	-52.6		57	13.8	19	24,703	-48.4		274	73.4	26	24,879	-54.9		3	5.8	24	24,871	-51.8		346	17.9	25	24,878	-53.6		34	9.7
20	21	26,361	-51.1		61	16.3	19	26,175	-47.1		276	73.2	26	26,311	-53.1		20	4.7	22	26,314	-51.5		349	22.1	24	26,313	-52.3		42	14.8
15	14	28,238	-48.8		59	18.6	16	28,048	-46.4		277	83.3	22	28,175	-50.0		325	5.1	16	28,155	-50.7		1	22.1	22	28,180	-50.5		47	16.5
10							12	30,903	-41.5		270	76.9	12	30,863	-44.8		278	13.4	8	30,899	-47.3				19	30,846	-47.2		49	24.1
7							7	33,576	-36.8				8	33,273	-41.0										12	33,242	-44.0			
5							5	35,990					6	35,567	-36.8															

See reference note at end of table

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb.)	GREAT FALLS, MONT. 886 MB						GREEN BAY, WIS. 987 MB						GREENSBORO, N. C. 981 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	1,123	- 2.1	59	238	14.4	29	210	- 8.6	78	271	3.9	29	273	- .8	77	287	3.1
1000	29	150					29	104					29	118				
950	29	561					29	506	- 6.8	66	295	6.2	29	532	1.1	58	290	8.5
900	29	994					29	925	- 7.3	58	297	12.4	29	964	- .3	55	288	14.4
850	29	1,454	- 1.5	46	261	23.1	29	1,369	- 9.0	53	294	14.6	29	1,420	- 2.5	54	290	18.5
800	29	1,934	- 4.6	50	290	22.0	29	1,837	-10.6	49	290	16.5	29	1,900	- 4.4	47	287	22.3
750	29	2,433	- 8.0	52	305	22.5	29	2,332	-12.7	48	288	17.7	29	2,410	- 6.1	41	280	25.1
700	29	2,972	-11.6	55	311	23.9	29	2,856	-15.4	46	283	18.8	29	2,945	- 8.6	35	269	27.2
650	29	3,531	-15.2	54	315	25.3	29	3,411	-18.7	43	285	22.0	29	3,517	-11.6	32	266	32.6
600	29	4,137	-19.1	54	319	27.2	29	4,005	-22.0	39	286	22.3	29	4,125	-15.0		263	40.2
550	29	4,777	-23.4	52	319	28.9	29	4,638	-25.3	37	280	23.9	29	4,778	-18.6		262	47.6
500	29	5,470	-28.0	50	319	33.4	29	5,327	-29.5	37	277	27.8	29	5,483	-22.9		262	54.0
450	29	6,212	-33.0	46	323	36.9	29	6,063	-34.8		275	29.5	29	6,246	-27.8		263	58.9
400	29	7,039	-39.0		325	39.2	29	6,883	-40.6		275	31.1	29	7,087	-33.6		259	68.8
350	29	7,941	-45.6		325	44.1	29	7,781	-46.6		275	36.5	29	8,013	-38.9		261	76.5
300	29	8,955	-51.4		327	47.8	29	8,790	-52.1		277	40.0	29	9,059	-44.0		261	82.2
250	29	10,126	-55.8		325	44.9	26	9,963	-53.9		277	40.8	29	10,269	-48.7		260	89.0
200	28	11,553	-55.3		325	38.9	28	11,401	-52.0		278	39.2	29	11,727	-50.9		260	92.7
175	28	12,409	-53.7		321	35.9	28	12,266	-51.3		279	40.8	29	12,593	-52.3		263	85.5
150	26	13,400	-52.8		313	34.0	27	13,265	-50.8		279	38.7	29	13,585	-51.2		261	77.5
125	26	14,576	-53.2		314	29.9	27	14,450	-51.7		279	36.9	29	14,743	-57.5		261	66.8
100	25	16,013	-54.1		312	25.8	27	15,895	-52.9		281	31.9	29	16,143	-60.2		263	54.8
80	24	17,447	-53.4		308	19.8	27	17,332	-53.6		282	27.6	29	17,531	-60.9		263	37.3
70	22	18,316	-53.7		318	20.6	27	18,190	-53.4		285	23.9	29	18,367	-60.9		265	31.9
60	22	19,298	-53.5		317	15.9	27	19,182	-53.6		289	21.2	29	19,321	-60.2		270	27.2
50	21	20,470	-53.5		329	13.2	27	20,353	-53.8		292	18.1	29	20,463	-58.6		277	18.1
40	20	21,902	-52.7		318	15.0	27	21,787	-53.2		299	14.4	29	21,870	-57.3		288	11.8
30	19	23,762	-51.9		343	17.7	26	23,541	-52.6		315	13.6	28	23,697	-55.8		308	9.5
25	16	24,953	-51.1		5	17.5	24	24,815	-52.2		323	14.8	27	24,859	-54.8		311	5.8
20	12	26,440	-49.3		25	18.1	22	26,258	-51.7		329	16.9	26	26,289	-53.2		305	7.4
15	8	28,368	-47.7				19	28,142	-50.0		330	20.0	23	28,149	-50.8		288	10.5
10							9	30,832	-48.7				12	30,803	-47.2			

Standard pressure surface (mb.)	GUAM, MARIANA IS. 1000 MB						HILO, HAWAII 1017 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	111	24.4	83	70	11.3	29	11	18.9	86	263	4.1
1000	29	113			68	11.5	29	158	20.5	76	309	2.7
950	29	566	21.5	83	70	25.4	29	598	17.3	80	55	6.6
900	29	1,031	18.6	82	74	24.7	29	1,060	13.9	82	60	9.1
850	29	1,521	16.1	80	79	21.4	29	1,540	10.7	82	67	9.3
800	29	2,035	14.1	67	86	17.5	29	2,044	7.7	80	66	11.5
750	29	2,580	13.3	33	90	16.3	29	2,577	5.2	65	68	12.8
700	29	3,159	12.2		85	16.1	29	3,138	4.6		62	14.8
650	29	3,775	9.0		82	17.1	29	3,737	2.3		47	12.8
600	29	4,434	4.9		80	18.1	29	4,382	- 1.5		37	11.5
550	29	5,138	.4		87	17.5	29	5,062	- 6.1		11	10.7
500	29	5,897	- 4.6		95	15.9	29	5,809	-11.1		347	12.6
450	29	6,714	- 9.9		97	16.5	29	6,607	-16.6		335	16.1
400	29	7,618	-15.6		92	12.8	29	7,486	-22.8		318	22.5
350	29	8,612	-22.5		110	8.0	29	8,452	-29.2		303	33.8
300	29	9,725	-30.7		101	3.1	29	9,541	-34.8		295	47.4
250	29	10,992	-40.9		161	3.3	29	10,795	-41.9		287	58.1
200	29	12,470	-53.0		169	11.1	28	12,271	-51.5		287	62.0
175	29	13,317	-59.9		180	14.0	28	13,127	-57.1		292	60.8
150	29	14,263	-67.6		173	17.5	28	14,088	-63.3		295	53.2
125	29	15,337	-75.9		159	19.0	27	15,195	-69.6		291	40.0
100	29	16,600	-82.7		138	14.6	27	16,508	-74.4		296	29.3
80	29	17,854	-78.1		107	5.4	26	17,805	-73.8		292	14.6
70	29	18,627	-72.3		81	2.9	26	18,590	-71.0		292	7.4
60	28	19,545	-68.6		273	3.3	25	19,507	-67.9		287	4.3
50	27	20,646	-64.7		262	12.2	25	20,615	-63.7		280	5.2
40	27	22,022	-60.8		261	21.0	24	22,001	-58.4		286	6.0
30	27	23,835	-55.6		275	21.4	24	23,824	-54.9		303	6.4
25	26	25,007	-52.0		281	13.4	24	24,995	-52.5		283	7.6
20	22	26,472	-47.8		303	6.4	24	26,446	-49.7		293	11.1
15	13	28,365	-46.6		338	6.8	21	28,349	-47.1		286	16.1
10	7	31,061	-44.0									

Standard pressure surface (mb.)	HUNTINGTON, W. VA. 985 MB						* INTERNAT. FALLS, MINN. 968 MB						JACKSON, MISS. 1005 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	246	- 2.5	81	255	2.7	29	360	-14.1	74	272	2.3	29	94	3.5	81	220	.6
1000	29	126					29	106					29	134			17	1.6
950	29	535	- 1.7	68	266	6.6	29	497	-11.9	78	275	3.3	29	552	3.7	66	274	2.5
900	29	963	- 3.4	65	278	11.8	29	913	-11.1	73	284	10.1	29	991	2.2	61	282	10.7
850	29	1,414	- 5.3	62	276	15.9	29	1,352	-11.2	69	295	12.6	29	1,452	.8	55	286	13.8
800	29	1,889	- 7.3	61	275	21.6	29	1,816	-12.4	61	301	15.2	29	1,938	- .2	46	281	19.4
750	29	2,389	- 9.3	57	279	21.2	29	2,306	-14.3	56	304	17.5	29	2,452	- 2.2	41	279	23.3
700	29	2,921	-11.8	50	278	23.3	29	2,828	-16.7	56	303	19.4	29	3,000	- 4.4	35	276	28.0
650	29	3,486	-14.5	45	278	26.8	29	3,376	-19.4	52	302	21.4	29	3,580	- 7.5	34	271	32.6
600	29	4,089	-17.7	42	279	28.4	29	3,973	-22.8	52	304	24.3	29	4,201	-11.2		266	38.3
550	29	4,732	-21.3	41	280	31.7	29	4,599	-26.5	53	300	26.0	29	4,860	-15.3		269	45.1
500	29	5,434	-25.7		278	36.1	29	5,289	-30.8	51	302	27.0	29	5,579	-19.9		268	52.3
450	29	6,184	-30.9		275	39.0	29	6,024	-36.0	48	298	29.5	29	6,350	-24.8		267	62.0
400	29	7,016	-36.5		271	44.9	29	6,838	-41.8		301	30.5	29	7,202	-30.0		264	75.4
350	29	7,930	-42.5		269	52.1	29	7,730	-48.0		301	35.4	29	8,141	-36.2		262	77.5
300	29	8,960	-47.0		264	59.6	29	8,733	-53.7		299	39.8	29	9,195	-42.9		264	86.1
250	29	10,159	-50.3		262	61.0	29	9,897	-55.7		297	38.5	29	10,409	-47.9		266	96.3
200	29	11,613	-50.8		262	66.2	29	11,325	-52.7		297	37.9	29	11,869	-51.9			
175	29	12,483	-50.4		266	65.9	29	12,190	-51.3		294	34.0	29	12,729	-54.2			
150	29	13,483	-52.6		265	58.9	29	13,191	-51.1		291	33.4	29	13,711	-57.0			
125	29	14,655	-54.8		265	52.8	29	14,375	-51.8		291	32.8	29	14,855	-60.3			
100	29	16,075	-57.0		265	46.0	29	15,819	-52.1		292	30.3	29	16,232	-63.4			
80	28	17,483	-58.0		269	37.1	29	17,264	-52.3		296	25.6	29	17,598	-64.4			
70	27	18,320	-57.7		270	31.1	29	18,125	-52.8		299	25.3	29	18,421	-63.9			
60	27	19,295	-57.6		268	23.1	29	19,122	-53.1		302	23.7	29	19,363	-62.6			
50	26	20,445	-56.9		276	17.7	29	20,297	-53.1		303	22.1	29	20,492	-60.0			
40	26	21,861	-55.9		292	13.0	29	21,737	-52.9		306	22.3	28	21,892	-58.4			
30	26	23,695	-55.0		317	9.3	29	23,554	-53.0		315	20.6	27	23,708	-56.3			
25	26	24,862	-54.2		336	8.0	29	24,769	-53.2		319	20.2	26	24,870	-55.0			
20	26	26,296	-53.0		328	9.5	28	26,205	-52.9		325	23.1	24	26,302	-53.0			
15	21	28,158	-51.0		323	16.9	24	28,070	-51.7		331	24.9	18	28,172	-49.7			
10	9	30,780	-46.9				18	30,720	-48.7		331	31.3						
7							12	33,080	-47.5									
5							5	35,393	-41.9									

Standard pressure surface (mb.)	JACKSONVILLE, FLA. 1016 MB						JOHN F. KENNEDY INT. AP, N. Y. 1010 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	5	8.1	87	294	3.3	29	5	- 2.0	58	314	8.2
1000	29	135	8.9	77	319	4.9	29	86			310	11.7
950	29	561	7.8	69	268	7.6	29	492	- 4.0	55	322	14.8
900	29	1,005	5.9	62	254	14.0	29	918	- 4.9	54	317	15.9
850	29	1,473	5.2	51	255	20.8	29	1,367	- 5.6	51	298	15.3
800	29	1,967	3.8	44	259	26.2	29	1,842	- 7.0	51	288	18.3
750	29	2,488	2.2		260	32.4	29	2,346	- 8.7	47	285	22.3
700	29	3,045	- .2		264	37.7	29	2,876	-11.2	43	281	26.2
650	29	3,630	- 2.6		260	47.2	29	3,442	-14.0	41	276	29.3
600	29	4,266	- 6.4		263	54.0	29	4,046	-17.7	40	272	34.6
550	29	4,932	-10.5	39	263	63.2	29	4,692	-21.8		269	39.4
500	29	5,668	-15.1	38	261	70.9	29	5,386	-26.7		267	42.0
450	29	6,452	-20.0	42	262	78.7	29	6,141	-31.9		269	46.4
400	29	7,323	-25.5	43	260	90.1	29	6,961	-37.6		267	50.5
350	29	8,279	-31.7		264	97.3	29	7,871	-43.2		266	59.2
300	29	9,352	-39.0		266	113.8	29	8,898	-47.9		267	65.1
250	29	10,581	-46.7		271	107.6	29	10,092	-50.6		268	72.3
200	29	12,034	-54.2				29	11,548	-50.1		266	72.8
175	29	12,885	-57.1				29	12,420	-50.3		267	68.4
150	28	13,850	-60.9				29	13,424	-51.8		266	64.5
125	28	14,974	-64.8				29	14,599	-54.0		267	55.4
100	28	16,324	-68.1				29	16,027	-55.7		267	45.5
80	28	17,664	-68.0				28	17,443	-56.6		270	36.1
70	28	18,476	-66.2				27	18,298	-56.3		273	29.3
60	28	19,409	-63.7				26	19,271	-56.6		272	22.0
50	28	20,533	-61.5				26	20,429	-56.0		274	18.3
40	28	21,928	-58.7				25	21,854	-54.9		289	14.6
30	28	23,749	-55.8				24	23,693	-54.3		292	13.4
25	28	24,913	-54.5				18	24,864	-54.2		311	10.7
20	28	26,350	-52.4		288	10.5	14	26,312	-53.1		323	10.5
15	25	28,219	-49.0		289	15.2	6	28,172	-51.5			
10	23	30,932	-40.4		279	21.4						
7	13	33,436	-35.3									

Standard pressure surface (mb.)	JOHNSTON IS., PACIFIC AREA 1015 MB						KING SALMON, ALASKA 998 MB						KOROR, CAROLINE IS. + 1007 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	3	24.5	75	83	16.1	28	15	-10.7	75	112	3.3	29	30	26.5	85	60	10.1
1000	29	134	23.2	76	82	18.5	28	- 7			51	1.9	29	96	25.9	85	61	12.6
950	29	576	19.5	78	85	20.8	28	390	- 9.3	70	151	4.9	29	546	22.6	84	64	22.3
900	29	1,044	16.0	79	85	21.8	28	807	- 9.9	69	198	7.4	29	1,018	20.0	80	68	25.4
850	29	1,528	12.6	75	82	20.6	28	1,248	-10.4	64	224	10.7	29	1,510	17.4	76	69	21.8
800	29	2,035	10.2	61	79	19.2	28	1,713	-12.4	59	235	14.0	29	2,028	15.3	68	79	19.4
750	29	2,572	9.9		74	17.3	28	2,203	-14.9	56	240	15.0	29	2,570	13.1	59	81	17.3
700	29	3,143	7.8		73	14.4	28	2,723	-17.6	52	240	16.1	29	3,152	10.4	53	85	18.1
650	29	3,744	5.2		69	13.2	28	3,273	-20.6	49	242	19.2	29	3,763	7.3	47	85	21.4
600	29	4,400	1.5		46	11.1	28	3,863	-23.7	47	241	21.4	29	4,422	3.6	47	89	22.1
550	29	5,088	- 2.8		16	11.1	28	4,490	-27.8	48	242	24.1	29	5,121	- .3	42	92	24.1
500	29	5,845	- 7.5		356	13.6	28	5,172	-32.5	46	238	26.2	29	5,881	- 4.8		92	25.1
450	29	6,654	-12.8		345	18.5	28	5,904	-37.4		238	29.1	29	6,701	- 9.4	33	91	25.3
400	29	7,549	-17.9		325	24.1	28	6,712	-42.5		239	32.8	29	7,606	-14.8	34	96	22.0
350	29	8,533	-25.0		311	27.2	28	7,603	-48.0		235	37.1	29	8,603	-21.6		94	20.8
300	29	9,636	-32.6		305	29.9	28	8,608	-52.5		235	40.2	29	9,721	-29.9		97	19.0
250	29	10,895	-41.8		300	29.9	28	9,784	-52.2		237	39.0	29	10,993	-40.2		110	20.8
200	29	12,372	-52.8		296	31.7	28	11,234	-50.3		232	36.9	29	12,474	-52.9		115	23.7
175	28	13,225	-59.3		290	36.7	28	12,107	-49.6		234	37.7	27	13,323	-60.1		115	27.0
150	28	14,174	-66.4		290	32.8	28	13,117	-49.0		239	37.1	27	14,267	-67.7		116	32.2
125	28	15,258	-73.7		291	28.9	28	14,315	-48.7		243	38.3	27	15,344	-74.9		116	33.8
100	28	16,539	-80.1		291	18.5	27	15,783	-48.3		243	37.1	27	16,621	-79.3		112	16.3
80	28	17,802	-78.7		302	8.0	27	17,250	-48.7		247	39.8	26	17,892	-76.4		45	6.8
70	28	18,565	-74.0		307	4.5	27	18,129	-48.1		251	36.5	26	18,669	-71.3		1	2.5
60	27	19,478	-69.1		272	4.5	27	19,146	-48.0		254	34.4	25	19,594	-65.2		290	6.8
50	26	20,580	-64.2		266	8.4	27	20,349	-47.8		253	34.2	24	20,714	-61.5		283	12.2
40	26	21,964	-59.4		286	13.0	27	21,823	-47.0		258	34.8	22	22,117	-57.4		266	19.4
30	26	23,784	-55.5		282	11.8	27	23,733	-46.2		261	34.8	21	23,941	-55.7		265	29.1
25	26	24,955	-52.4		288	10.5	25	24,958	-45.8		266	32.4	21	25,104	-53.5		263	21.2
20	26	26,410	-48.9		282	12.6	21	26,452	-44.2		267	32.1	20	26,552	-50.4		257	14.6
15	24	28,317	-46.5		279	14.8	12	28,415	-41.9				14	28,442	-48.3		131	6.4
10	17	31,034	-43.3		245	7.4							6	31,093	-45.5			
7	5	33,439	-40.1															

Standard pressure surface (mb.)	KOTZEBUE, ALASKA 1008 MB						LAKE CHARLES, LA. 1017 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	5	-29.9	73	22	1.0	29	6	5.7	84	21	2.5
1000	29	56			120	1.4	29	140	8.1	70	27	3.5
950	29	436	-21.1	69	94	4.1	29	562	6.9	61	343	4.1
900	29	833	-19.4	70	104	6.0	29	1,006	5.7	56	295	9.3
850	29	1,258	-19.4	68	99	5.6	29	1,473	4.4	43	282	14.2
800	29	1,709	-20.0	65	99	5.4	29	1,965	2.8	36	277	18.5
750	29	2,187	-21.6	61	113	4.7	29	2,486	.8	35	273	22.3
700	29	2,692	-23.8	59	145	7.2	29	3,038	- 1.6		268	28.7
650	29	3,226	-26.7	56	157	8.2	29	3,624	- 4.3		264	37.3
600	29	3,805	-30.2	53	163	9.1	29	4,253	- 7.8		264	46.0
550	29	4,414	-34.2	52	182	11.1	29	4,921	-12.4		264	52.6
500	29	5,080	-38.4		191	13.0	29	5,646	-17.2		261	59.6
450	29	5,800	-43.1		186	14.2	29	6,426	-22.0		261	68.8
400	28	6,585	-48.3		197	16.1	29	7,287	-27.0		259	80.6
350	28	7,454	-53.3		208	19.6	29	8,237	-33.3		260	89.9
300	28	8,437	-56.9		215	22.1	29	9,305	-39.9		260	105.5
250	28	9,591	-56.4		227	28.4	29	10,532	-46.5		260	111.7
200	28	11,014	-54.4		230	30.7	29	11,991	-53.0			
175	28	11,870	-53.9		236	34.4	29	12,846	-55.8			
150	28	12,860	-53.5		239	38.3	29	13,820	-58.8			
125	28	14,033	-53.2		240	44.7	29	14,955	-62.7			
100	28	15,472	-52.5		245	52.4	29	16,316	-66.5			
80	28	16,916	-51.7		246	60.6	27	17,665	-66.6			
70	28	17,792	-51.3		251	65.5	27	18,483	-66.1			
60	28	18,786	-50.6		253	70.3	27	19,416	-63.7			
50	28	19,976	-49.9		255	73.4	27	20,541	-61.1		278	7.8
40	27	21,442	-49.0		256	77.3	27	21,938	-58.1		283	9.9
30	25	23,333	-48.0		259	82.8	26	23,764	-55.7		351	3.9
25	24	24,547	-47.1		261	80.8	26	24,930	-54.1		13	3.9
20	23	26,056	-45.6		260	83.9	25	26,372	-51.4		311	4.9
15	21	28,044	-43.0		259	90.5	21	28,259	-47.8		296	8.7
10	5	30,731	-37.6				5	30,952	-42.3			

See reference note at end of table

RAWINSONDE DATA

Average monthly values

FEBRUARY 1964

Standard pressure surface (mb.)	LANDER, WYO. 827 MB						LAS VEGAS, NEV. 943 MB						* LIHUE, HAWAII 1015 MB						LITTLE ROCK, ARK. 1007 MB						MCGRATH, ALASKA 991 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	1,696	- 9.2	62	250	2.1	29	660	3.3	31	310	4.1	29	36	21.3	74	50	9.5	29	79	1.1	79	324	2.7	27	103	-18.4	63	274	2.1
1000	29	198					29	181					29	166	21.0	72	56	13.0	29	135			343	3.3	27	29				
950	29	600					29	601					29	607	17.3	77	66	16.3	29	553	2.1	55	331	3.5	27	417	-16.6	68	61	5.4
900	29	1,027					29	1,044	6.0	26	350	9.3	29	1,068	13.7	78	70	16.3	29	986	.1	58	305	6.2	27	821	-15.6	69	82	8.2
850	29	1,478					29	1,509	3.2	29	344	12.2	29	1,548	10.3	78	71	15.0	29	1,443	- 1.4	54	294	9.2	27	1,254	-14.4	67	96	7.4
800	29	1,951	- 5.7	49	311	3.7	29	1,998	.1	30	348	12.6	29	2,051	8.1	59	75	14.0	29	1,925	- 2.9	48	294	13.4	27	1,714	-15.1	67	143	5.6
750	29	2,452	- 7.6	45	314	6.0	29	2,511	- 3.2	31	348	13.6	29	2,583	7.2	27	77	13.6	29	2,434	- 4.9	43	287	17.3	27	2,199	-16.7	66	184	7.8
700	29	2,990	-10.7	44	321	14.6	29	3,055	- 5.9	31	346	14.6	29	3,148	5.3	17	70	9.5	29	2,975	- 7.3	43	278	21.2	27	2,717	-19.3	62	197	9.5
650	29	3,553	-14.5	44	326	19.2	29	3,627	- 8.8		340	16.1	29	3,746	2.4	15	49	7.8	29	3,544	-10.1	40	275	24.7	27	3,263	-22.6	59	200	11.5
600	29	4,159	-18.5	44	329	20.4	29	4,248	-12.2		332	22.1	29	4,393	- 1.6	16	12	8.7	29	4,163	-13.8	36	273	29.3	27	3,848	-26.1	57	195	11.7
550	29	4,798	-22.5	40	328	24.7	29	4,902	-16.5		331	22.2	29	5,070	- 6.5	17	357	8.2	29	4,814	-18.2		271	37.3	27	4,470	-29.6	53	201	13.2
500	29	5,496	-27.2	41	325	26.2	29	5,618	-21.1		330	29.3	29	5,817	-12.0	16	345	10.9	29	5,525	-23.1	36	266	43.5	27	5,149	-33.7	50	202	15.7
450	29	6,244	-32.4	36	328	28.9	29	6,375	-26.7		327	32.4	29	6,605	-17.9	17	323	15.7	29	6,278	-28.5		263	45.1	27	5,876	-38.5		206	17.3
400	29	7,068	-39.0		330	31.1	29	7,226	-33.5		323	35.9	29	7,485	-24.3	19	318	21.8	29	7,123	-34.3		266	53.8	27	6,681	-43.8		209	20.8
350	29	7,971	-45.1		328	33.6	29	8,150	-40.4		321	37.9	29	8,444	-30.7	20	315	32.1	29	8,045	-40.1		271	59.6	27	7,566	-49.9		219	20.0
300	29	8,989	-50.6		324	35.5	29	9,185	-47.6		314	41.2	29	9,526	-36.6	16	310	44.1	29	9,083	-45.7		271	69.3	27	8,562	-54.5		225	23.1
250	29	10,163	-55.3		322	40.4	29	10,372	-53.5		303	48.0	29	10,770	-43.7		299	53.0	29	10,285	-49.8		271	63.9	27	9,730	-53.8		242	28.9
200	29	11,587	-54.3		312	35.7	29	11,799	-55.3		293	54.8	29	12,244	-51.7		292	58.1	29	11,741	-50.9				27	11,173	-51.3		242	33.8
175	29	12,447	-52.6		306	35.5	29	12,653	-54.6		288	56.9	29	13,099	-57.1		292	60.0	29	12,607	-52.1				27	12,042	-50.3		241	35.4
150	29	13,445	-51.7		304	34.2	29	13,638	-55.6		287	55.6	29	14,061	-63.1		291	53.8	29	13,600	-54.6				27	13,049	-49.8		245	40.6
125	29	14,624	-53.3		302	33.8	26	14,796	-57.6		287	46.6	29	15,165	-69.4		288	46.8	29	14,759	-57.4				27	14,241	-49.8		246	42.7
100	29	16,058	-54.0		301	27.6	26	16,195	-60.5		291	36.5	29	16,479	-74.7		288	30.9	29	16,159	-59.9				27	15,701	-49.6		253	45.5
80	29	17,484	-55.1		298	19.8	25	17,584	-60.8		296	24.3	28	17,772	-73.6		290	15.7	27	17,542	-60.9				27	17,163	-49.0		256	50.5
70	29	18,337	-55.3		300	16.1	23	18,413	-60.5		299	18.1	28	18,558	-70.8		291	9.3	27	18,374	-60.7				27	18,043	-48.7		258	48.2
60	29	19,321	-55.0		311	11.5	20	19,377	-59.2		306	13.4	28	19,476	-68.4		281	3.1	27	19,332	-60.7				26	19,051	-48.5		260	50.7
50	29	20,485	-54.9		326	9.5	19	20,527	-57.5		341	8.9	28	20,581	-63.6		276	1.6	27	20,470	-59.1				26	20,251	-48.4		260	52.6
40	28	21,917	-53.9		344	9.1	19	21,941	-56.1		35	8.2	28	21,963	-59.4		286	3.9	27	21,875	-57.4				26	21,721	-47.9		263	53.6
30	28	23,769	-52.7		18	11.3	18	23,781	-53.9		60	12.6	28	23,779	-55.7		13	3.3	27	23,700	-55.8				23	23,584	-47.7		267	56.1
25	28	24,948	-51.9		29	11.8	17	24,954	-52.7		70	15.2	28	24,945	-53.7		303	3.3	26	24,863	-54.6				23	24,789	-47.4			
20	26	26,390	-50.9		38	16.1	15	26,397	-50.6		72	18.6	27	26,385	-51.1		292	7.2	25	26,298	-53.4				20	26,272	-47.6			
15	16	28,273	-48.9		42	18.1	12	28,283	-48.2		69	22.5	27	28,267	-48.3		289	7.6	17	28,164	-50.9				9	28,255	-44.7			
10													26	30,961	-43.9		251	12.0	5	30,801	-46.4									
7													21	33,389	-38.2		260	15.0												
5													14	35,736	-33.4		244	12.8												

Standard pressure surface (mb.)	+ MAJURO, MARSHALL IS. 1010 MB						MARCUS IS., N. PACIFIC 1018 MB						MEDFORD, OREG. 979 MB						* MIAMI, FLA. 1015 MB						* MIDLAND, TEXAS 915 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	3	28.6	72	70	15.0	29	9	20.7	70	346	4.3	29	401	- 2.3	91	296	.8	28	4	15.5	87	322	1.0	29	874	- 1.0	69	297	1.9
1000	29	88	27.3	72	67	17.5	29	159	19.4	69	341	6.2	29	232					28	133	16.0	76	74	.4	29	152				
950	29	529	22.9	75	63	23.1	29	597	15.8	73	330	7.0	29	645	2.7	70	333	1.6	28	570	14.4	67	224	3.1	29	566				
900	29	1,011	19.4	77	70	23.9	29	1,056	12.5	70	313	8.0	29	1,082	2.8	57	107	1.4	28	1,025	12.5	63	240	10.7	29	1,003	1.9	54	283	1.4
850	29	1,502	17.0	72	75	21.4	29	1,534	10.2	60	285	8.7	29	1,544	1.9	46	5	1.2	28	1,504	11.3	57	247	17.1	29	1,464	1.9	48	254	6.2
800	29	2,019	15.9	56	82	15.5	29	2,037	8.9	44	274	11.8	29	2,032	.1	41	2	7.0	28	2,010	10.1	49	249	21.0	29	1,953	.7	44	275	13.4
750	29	2,560	13.9	47	85	14.2	29	2,571	7.8	32	275	15.5	29	2,543	- 1.9	35	346	14.0	28	2,541	7.6	43	248	27.2	29	2,469	- 1.7	41	280	17.7
700	29	3,145	10.9	42	89	13.6	29	3,137	6.2	27	268	20.2	29	3,093	- 4.7	29	348	18.5	28	3,111	5.1	41	252	29.5	29	3,015	- 4.9	39	279	21.2
650	29	3,757	7.7	38	86	14.0	29	3,740	3.9	20	268	27.0	29	3,667	- 8.2		346	23.1	28	3,709	2.3	42	255	34.6	29	3,589	- 8.1	33	277	26.2
600	29	4,415	4.2		85	17.3	29	4,389	.8	20	272	33.2	29	4,290	-11.9	29	342	25.3	28	4,357	- .9	42	256	38.9	29	4,212	-11.8	31	276	30.9
550	29	5,113	.7		79	17.9	29	5,078	- 2.9	21	273	38.5	29	4,944	-16.1		339	27.8	28	5,036	- 5.1	39	257	44.7	29	4,869	-16.1	31	275	35.0
500	29	5,879	- 3.6		82	20.8	29	5,831	- 7.8	22	274	43.9	29	5,662	-21.2		335	30.1	28	5,790	- 9.6	35	256	51.5	29	5,585	-21.2	27	272	41.4
450	29	6,699	- 8.6		78	22.7	29	6,640	-13.1	23	273	50.3	29	6,425	-27.1		334	32.2	28	6,586	-15.1	35	257	57.7	29	6,351	-26.3	28	271	48.6
400	29	7,608	-14.1		81	19.6	29	7,531	-18.6	23	273	56.7	29	7,270	-33.8		327	32.1	28	7,478	-20.9	31	258	62.5	29	7,197	-32.1	29	271	57.7
350	29	8,609	-20.5		84	15.5	29	8,514	-25.0	22	271	61.6	29	8,192	-41.1		333	35.0	28	8,450	-28.3	30	260	64.5	29	8,129	-37.6	31	268	71.7
300	29	9,733	-28.8		84	12.2	29	9,617	-32.9	23	272	63.7	29	9,222	-49.3		331	34.4	28	9,537	-36.9	30	260	68.8	29	9,178	-43.9		268	85.7
250	29	11,011	-38.8		107	10.9	29	10,875	-42.1		271	66.4	29	10,395	-57.3		323	30.7	28	10,776	-45.5		260	75.2	29	10,388	-48.7		269	93.0
200	29	12,501	-51.5		124	11.3	29	12,348	-53.1		269	70.7	29	11,788	-60.5		313	36.1	28	12,236	-54.2		263	82.2	29	11,846	-51.5		268	87.0
175	29	13,354	-58.6		130	10.1	29	13,196	-59.3		267	74.0	29	12,626	-57.5		308	36.1	28	13,083	-58.7		263	82.2	29	12,709	-53.6		269	84.5
150	29	14,306	-66.3		115	9.7	28	14,147	-66.4		267	69.0	29	13,603	-66.1		308	36.1	28	14,039	-64.0		261	75.0	29	13,693	-57.0		266	79.4
125	29	15,388	-74.4		90	12.4	28	15,230	-73.3		265	62.5	29	14,759	-57.4		305	31.7	28	15,141	-69.7		260	63.7	29	14,838	-60.6		271	69.7
100	28	16,662	-82.6		90	16.7	23	16,518	-78.0		266	48.0	28	16,161	-58.3		308	28.9	28	16,456	-74.7		262	54.4	29	16,218	-63.1		272	59.8
80	27	17,917	-76.3		126	4.9	23	17,796	-76.1		263	37.3	28	17,563	-58.5		315	22.0	26	17,755	-74.3		260	38.9	29	17,585	-64.6		277	39.6
70	27	18,698	-69.4		282	7.0	22	18,572	-72.2		264	29.7	28	18,409	-57.3		318	17.5	26	18,545	-72.0		255	29.9	29	18,409	-63.9		274	28.0
60	27	19,631	-63.6		268	14.6	22	19,490	-68.2		262	22.3	27	19,383	-56.6		332	12.8	25	19,453	-65.3		253	21.6	29	19,349	-62.7		280	9.5
50	27	20,762	-59.6		265	20.6	20	20,603	-64.2		259	17.9	27	20,542	-55.6		3	8.5	24	20,560	-63.9		262	18.8	28	20,476	-60.8		296	7.0
40	26	22,166	-57.4		271	27.2	16	21,979	-58.4		254	10.9	27	21,968	-54.0		29	8.9	24	21,941	-60.0		269	14.6	27	21,872	-58.4		341	3.7
30	25	23,996	-54.7		271	27.2	15	23,809	-54.9		251	8.2	27	23,820	-52.7		49	14.6	24	23,757	-55.7		272	14.0	27	23,688	-56.7		43	3.5
25	25	25,168	-52.8		269	23.9	14	24,984	-52.7		297	6.6	26	24,996	-51.8		55	18.5	24	24,923	-53.9		268	14.4	26	24,845	-55.4		356	4.1
20	25	26,618	-50.1		254	10.3	13	26,436	-50.4		343	6.0	25	26,447	-50.3		57	23.1	24	26,364	-51.8		268	18.5	24	26,268	-54.0		26	4.9
15	21	28,511	-47.0		97	13.8	12	28,315	-49.3		302	5.2	25	28,334	-48.1		59	28.0	23	28,246	-47.7		270	27.0	22	28,120	-51.7		348	7.8
10	13	31,212	-42.9				11	30,998	-45.4		267	10.5	18	31,047	-44.0		67	34.0	21	30,976	-39.7		260	36.5	16	30,754	-47.1			
7							8	33,396	-41.6				9	33,482	-40.2				21	33,445	-35.7		252	55.4	6	33,186	-42.7			
5							7	35,720	-35.4										6	35,782	-33.2									
4							7	37,282	-33.2																					
3							7	39,308	-32.3																					

Standard pressure surface (mb.)	MONTGOMERY, ALA. 1009 MB						NANTUCKET, MASS. 1006 MB						NASHVILLE, TENN. 994 MB						NOME, ALASKA 1003 MB						NORFOLK, VA. 1012 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	61	3.6	78	339	1.2	28	14	- 2.5	72	298	5.8	29	177	- .4	85	335	1.0	26	7	-21.5	73	33	4.9	29	9	1.5	76	295	5.2
1000	29	134	4.5	65	360	1.6	28	63			293	8.5	29	133			42	1.9	26	26			31	4.7	29	103			309	8.0
950	29	553	4.2	62	300	3.5	28	466	- 4.2	64	298	13.2	29	544	- .1	68	271	4.3	26	410	-16.9	59	92	3.9	29	513	.9	57	304	12.4
900	29	991	2.5	59	285	8.7	28	895	- 4.5	56	292	14.0	29	976	- 2.2	65	279	7.6	26	816	-17.1	62	113	4.1	29	949	- .7	55	294	14.6
850	29	1,452	1.0	55	280	14.4	28	1,345	- 5.4	52	281	17.1	29	1,429	- 4.0	63	273	11.3	26	1,244	-17.6	63	135	3.9	29	1,405	- 2.3	53	284	17.5
800	29	1,939	.2	44	273	20.0	28	1,820	- 7.0	51	273	19.8	29	1,906	- 5.8	62	272	15.3	26	1,698	-18.8	62	145	4.3	29	1,885	- 4.1	49	275	19.0
750	29	2,454	- 1.8		270	26.4	28	2,321	- 8.8	49	272	24.7	29	2,409	- 7.6	55	279	14.4	26	2,178	-20.1	59	170	4.7	29	2,392	- 6.0	45	268	23.3
700	29	3,001	- 4.1		268	34.8	28	2,855	-10.9	49	272	30.3	29	2,945	- 9.7	44	275	18.5	25	2,696	-22.8	57	191	6.4	29	2,931	- 8.2	40	262	29.5
650	29	3,578	- 7.0		266	41.8	28	3,418	-14.0	48	271	34.8	29	3,512	-12.4	37	275	19.8	25	3,231	-25.7	56	190	8.2	29	3,501	-11.4		264	34.2
600	29	4,203	-10.4		264	49.3	28	4,025	-17.7	48	272	41.4	29	4,122	-15.6		276	25.4	25	3,813	-29.1	50	197	12.4	29	4,113	-15.2		262	40.4
550	29	4,865	-14.5		260	56.3	28	4,666	-22.1	45	272	43.5	29	4,771	-19.9		271	31.1	24	4,418	-32.8	49	194	13.2	29	4,762	-19.1		261	46.4
500	29	5,584	-19.1		259	63.5	28	5,366	-26.6	45	271	45.6	29	5,472	-24.8	39	269	33.2	24	5,092	-36.8		203	18.1	29	5,468	-23.6		263	51.1
450	29	6,358	-24.2		260	73.0	28	6,111	-31.9		270	51.1	29	6,223	-30.4		263	36.7	24	5,808	-41.1		194	19.6	29	6,226	-28.4		262	59.8
400	29	7,210	-29.3		260	84.3	28	6,943	-37.4		267	57.5	29	7,058	-35.9		257	42.3	24	6,608	-46.2		203	22.5	29	7,066	-34.0		258	68.2
350	29	8,154	-35.1		261	93.2	28	7,854	-42.7		266	62.9	28	7,972	-41.6		258	52.6	24	7,485	-51.6		214	28.2	29	7,990	-39.2		259	82.4
300	29	9,214	-42.1		261	101.6	28	8,882	-47.7		262	72.1	28	9,005	-46.6		256	58.3	23	8,481	-55.3		221	32.4	29	9,034	-44.2		260	88.6
250	29	10,434	-47.2		262	119.7	28	10,079	-49.8		267	73.8	28	10,204	-50.2		258	63.9	23	9,644	-54.7		220	33.4	29	10,245	-48.3		265	86.8
200	29	11,890	-52.9		265	118.7	28	11,538	-49.8		263	69.3	27	11,662	-51.2		259	73.6	23	11,081	-52.2		224	35.7	29	11,703	-51.0		267	89.6
175	29	12,748	-55.2		266	110.5	28	12,410	-50.4		261	69.2	27	12,528	-52.2		260	69.3	23	11,947	-51.1		227	40.4	29	12,571	-51.7		264	86.4
150	29	13,727	-57.7				27	13,409	-51.9		263	65.3	26	13,517	-53.8				22	12,951	-50.5		235	46.4	28	13,564	-54.1		267	76.5
125	29	14,868	-61.5				27	14,586	-53.7		265	58.7	26	14,680	-56.7				22	14,141	-49.8		236	50.3	28	14,726	-56.7		265	67.2
100	28	16,245	-64.1				27	16,014	-55.3		265	48.2	25	16,081	-59.0				22	15,604	-48.8		240	57.9	28	16,131	-59.3		265	54.0
80	27	17,606	-65.3				27	17,434	-56.4		263	36.7	24	17,472	-59.6				21	17,078	-47.6		245	64.7	27	17,525	-60.0		263	40.4
70	26	18,429	-63.6				27	18,280	-55.8		264	33.6	24	18,312	-59.6				21	17,965	-47.0		247	66.2	27	18,366	-59.6		265	32.2
60	25	19,364	-62.7				27	19,263	-56.2		266	23.7	23	19,273	-59.7				21	18,983	-46.8		251	72.3	27	19,325	-58.7		267	22.3
50	25	20,495	-60.1		274	15.7	26	20,426	-56.0		277	16.7	23	20,416	-58.1				20	20,188	-46.0		255	73.4	27	20,474	-57.8		270	17.9
40	24	21,893	-58.1		301	8.2	26	21,850	-54.7		273	14.6	21	21,831	-56.9				20	21,676	-45.2		255	73.6	26	21,887	-56.3		285	12.0
30	23	23,713	-55.9		301	7.2	26	23,689	-54.5		302	9.7	20	23,665	-55.2				18	23,595	-44.8		256	77.1	24	23,723	-54.7		356	6.2
25	23	24,875	-54.8		306	5.2	24	24,862	-54.0		297	7.8	19	24,833	-54.3				16	24,793	-44.4		260	77.7	23	24,891	-54.0		10	4.7
20	23	26,309	-52.7		332	4.1	23	26,295	-53.1		317	7.6	19	26,266	-53.1				14	26,288	-42.5		260	82.9	19	26,323	-52.6		40	4.3
15	20	28,181	-49.7		296	7.6	21	28,152	-51.2		299	13.8	17	28,132	-50.6				9	28,168	-41.3				10	28,190	-49.3			
10	10	30,867	-44.7				18	30,793	-46.9		283	35.0	15	30,798	-46.5															
7							16	33,178	-43.5		280	48.8	12	33,165	-43.0															
5							8	35,473	-41.1				10	35,436	-39.8															

See reference note at end of table

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb.)	NORTH PLATTE, NEBR. 915 MB						* OAKLAND, CALIF. 1021 MB						OKLAHOMA CITY, OKLA. 969 MB						OMAHA, NEBR. 966 MB						PEORIA, ILL. 991 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	848	- 7.6	77	325	5.2	29	6	8.5	60	34	2.9	29	392	- .4	75	322	2.7	29	408	- 5.0	73	283	3.9	28	200	- 5.0	83	312	1.7
1000	29	149					29	176	10.7	52	18	5.8	29	139					29	130					28	130				
950	29	554					29	599	9.1	41	13	12.0	29	551	1.3	63	309	3.7	29	535	- 3.6	70	279	5.8	28	536	- 2.7	62	303	7.4
900	29	976	- 5.7	74	319	8.5	29	1,048	8.3	37	15	16.7	29	986	.4	57	290	5.4	29	963	- 3.5	64	300	11.7	28	964	- 4.1	56	311	10.9
850	29	1,426	- 4.6	62	322	17.5	29	1,519	6.8	33	4	14.0	29	1,443	- .9	51	294	9.7	29	1,414	- 5.2	59	307	13.2	28	1,413	- 6.0	52	304	13.6
800	29	1,901	- 7.0	57	324	18.5	29	2,015	4.5	31	354	14.6	29	1,926	- 2.7	47	299	12.2	29	1,888	- 7.6	57	307	14.0	28	1,886	- 8.2	47	301	15.0
750	29	2,401	- 9.3	52	318	18.5	29	2,535	1.6	30	350	15.9	29	2,433	- 5.3	45	292	15.3	29	2,388	- 9.9	55	309	15.3	28	2,385	- 10.5	45	298	15.9
700	29	2,933	-11.9	52	315	18.8	29	3,091	- 1.7	29	347	18.8	29	2,975	- 8.3	46	290	19.6	29	2,919	-12.7	52	311	18.1	28	2,913	-13.2	41	294	17.7
650	29	3,496	-15.0	51	313	18.8	29	3,670	- 5.6	28	348	20.6	29	3,542	-11.6	41	288	22.9	29	3,480	-15.5	48	309	19.6	28	3,475	-15.8	40	290	20.0
600	29	4,098	-18.6	47	306	21.2	29	4,301	- 9.9	26	346	23.5	29	4,156	-15.5	38	280	26.0	29	4,083	-18.8	44	309	20.4	28	4,074	-19.4	39	286	22.9
550	29	4,740	-22.7	41	300	22.3	29	4,957	-14.3	27	342	25.1	29	4,805	-19.7		278	31.3	29	4,724	-23.0		305	22.7	28	4,716	-23.0		282	24.1
500	29	5,434	-27.6	39	294	22.5	29	5,683	-19.5	27	338	27.6	29	5,510	-24.1		273	37.3	29	5,419	-27.7	38	303	23.5	28	5,429	-27.8		279	26.6
450	29	6,178	-33.0	40	297	22.5	29	6,451	-25.5	28	331	29.9	29	6,265	-29.6		270	40.6	29	6,163	-33.1		302	24.9	28	6,154	-33.0		275	27.2
400	29	7,001	-39.1		293	24.1	29	7,303	-32.2	28	323	27.2	29	7,101	-35.5		272	45.1	29	6,987	-39.4		297	26.0	28	6,976	-38.9		275	31.1
350	29	7,902	-45.8		289	25.4	29	8,230	-39.9	29	321	26.2	29	8,019	-41.7		271	51.7	29	7,890	-45.0		294	28.9	28	7,880	-45.0		271	35.7
300	29	8,915	-51.4		287	27.2	29	9,266	-48.1		323	29.9	29	9,051	-47.1		269	62.2	29	8,908	-50.1		288	31.9	28	8,897	-50.5		272	39.4
250	29	10,090	-54.1		291	31.9	29	10,446	-56.0		313	30.3	29	10,249	-50.6		268	74.0	29	10,090	-53.1		285	36.9	28	10,080	-52.3		272	45.8
200	29	11,524	-52.8		289	35.9	28	11,855	-57.9		290	37.7	29	11,702	-50.8		265	80.4	29	11,530	-51.7		284	40.4	28	11,526	-50.9		270	51.5
175	29	12,387	-52.0		283	36.7	28	12,701	-56.3		291	40.2	29	12,570	-51.6		266	76.9	29	12,398	-51.0		283	39.6	28	12,396	-50.5		272	51.1
150	29	13,385	-51.9		283	37.5	28	13,682	-56.1		288	41.0	29	13,565	-53.8		268	70.1	29	13,400	-51.6		283	39.4	28	13,399	-51.3		270	50.1
125	27	14,558	-53.3		283	32.4	28	14,835	-58.7		292	36.9	29	14,728	-56.7		267	61.6	29	14,581	-52.6		283	38.9	28	14,579	-52.5		271	46.0
100	27	15,989	-55.0		284	30.1	28	16,231	-60.5		298	29.5	28	16,134	-59.0		271	49.1	29	16,018	-53.8		286	32.6	28	16,015	-54.2		271	39.2
80	27	17,412	-55.8		291	26.2	27	17,623	-61.0		304	21.2	28	17,530	-60.0		272	34.6	29	17,446	-55.1		292	26.6	28	17,443	-54.8		273	29.7
70	27	18,266	-55.8		293	20.0	27	18,452	-60.8		309	17.1	28	18,368	-60.2		273	29.7	29	18,297	-54.8		292	22.1	28	18,299	-55.8		276	24.5
60	27	19,243	-56.3		295	15.5	27	19,415	-59.3		318	13.6	27	19,322	-59.9		275	20.0	29	19,284	-55.0		297	18.5	28	19,275	-56.2		277	20.8
50	25	20,406	-55.4		310	13.0	27	20,560	-58.5		357	8.9	25	20,463	-58.5		286	12.0	28	20,448	-55.1		302	14.2	28	20,436	-55.2		287	16.5
40	25	21,831	-54.6		339	10.9	27	21,971	-56.0		34	10.1	24	21,867	-56.9		330	6.6	27	21,879	-54.1		322	11.5	28	21,864	-54.1		305	13.4
30	24	23,679	-53.8		4	8.5	26	23,803	-54.6		55	12.6	22	23,694	-55.5		345	8.4	26	23,729	-53.1		353	9.9	28	23,712	-53.4		330	9.5
25	24	24,853	-53.3		18	10.1	24	24,972	-53.4		57	15.5	18	24,864	-54.4		30	6.0	23	24,917	-57.5		9	10.1	28	24,887	-53.1		352	9.9
20	23	26,286	-52.6		21	12.2	24	26,414	-51.5		65	21.4	14	26,295	-52.9		22	6.8	22	26,366	-51.8		25	12.0	27	26,318	-52.2		7	6.7
15	23	28,151	-51.1		29	14.4	23	28,290	-49.4		70	25.6	9	28,156	-50.5				15	28,241	-49.9				27	28,186	-50.2		3	12.6
10	21	30,813	-47.9		29	20.2	21	30,080	-45.2		68	32.1							5	30,909	-45.1				24	30,853	-46.3		340	15.3
7	21	33,194	-44.3		16	21.0	16	33,435	-41.6		63	40.6													20	33,226	-44.0		312	28.0
5	18	35,450	-41.6																						8	35,525	-40.9			

Standard pressure surface (mb.)	PITTSBURGH, PA. 969 MB						+ PONAPE, CAROLINE IS. 1004 MB						PORTLAND, ME. 1005 MB						RAPID CITY, S. DAK. 902 MB						ST. CLOUD, MINN. 975 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	353	- 5.2	76	267	3.5	29	39	28.0	75	67	11.7	29	20	- 8.3	76	309	4.1	27	966	- 5.2	72	320	7.6	29	316	- 9.9	75	295	1.4
1000	29	114					29	74	27.5	75	67	13.6	29	54			302	6.0	27	146					29	117				
950	29	517	- 4.7	73	277	7.0	29	521	23.5	79	60	26.0	29	458	- 6.2	51	306	12.0	27	554					29	516	- 8.5	71	291	4.5
900	29	942	- 6.4	66	287	11.3	29	999	20.1	81	76	25.3	29	879	- 7.1	50	315	14.0	27	982			321	9.3	29	935	- 8.0	67	291	9.7
850	29	1,388	- 7.7	60	283	15.5	29	1,492	17.5	73	76	21.8	29	1,323	- 8.5	49	309	15.3	27	1,433	- 3.3	52	318	20.2	29	1,379	- 8.9	58	303	12.0
800	29	1,859	- 8.9	55	281	18.3	29	2,012	16.1	61	84	16.1	29	1,793	- 9.8	48	307	16.3	27	1,910	- 6.4	50	322	23.7	29	1,847	-10.2	53	306	15.0
750	29	2,354	-10.6	53	277	20.4	29	2,554	14.0	49	90	12.8	29	2,287	-11.9	49	303	18.3	27	2,408	- 9.3	48	325	25.3	29	2,339	-12.2	50	307	16.5
700	29	2,886	-13.3	51	276	22.7	29	3,138	10.7	47	100	12.0	29	2,815	-14.1	54	292	22.1	27	2,943	-12.4	46	325	25.1	29	2,868	-14.9	45	296	18.1
650	29	3,444	-16.0	49	277	27.2	29	3,749	7.7	45	97	16.5	29	3,369	-16.6	55	286	25.3	27	3,503	-15.9	44	321	24.9	29	3,420	-17.8	40	305	19.6
600	29	4,046	-19.1	47	279	28.6	29	4,410	4.2		92	21.0	29	3,974	-19.7	52	275	28.4	27	4,104	-19.5	41	318	24.7	29	4,020	-21.0	38	307	22.3
550	29	4,685	-23.0	45	280	29.5	29	5,107	.3		89	25.6	29	4,608	-23.5	49	273	35.9	27	4,745	-23.6	42	319	25.1	29	4,654	-25.2	43	303	22.9
500	29	5,281	-27.4	41	280	31.7	29	5,874	- 3.7		88	26.2	29	5,307	-28.1	47	269	39.4	27	5,436	-28.1	42	319	25.6	29	5,344	-29.5	38	309	24.3
450	29	6,124	-32.5		279	34.0	29	6,694	- 8.8		88	27.0	29	6,045	-33.2	46	266	45.1	27	6,182	-33.6	40	316	27.6	29	6,078	-35.0		304	26.0
400	29	6,953	-38.0		275	38.3	29	7,605	-14.5		89	23.7	29	6,874	-39.1		266	49.7	27	6,999	-39.8		311	27.4	29	6,900	-40.8		304	28.2
350	29	7,862	-43.4		273	45.5	29	8,604	-20.9		87	19.8	29	7,778	-44.7		263	57.1	27	7,898	-46.4		313	29.5	29	7,796	-47.5		302	29.7
300	29	8,887	-48.5		269	54.0	29	9,725	-28.9		98	18.8	29	8,798	-49.4		262	60.2	27	8,909	-51.8		317	35.0	29	8,803	-52.6		297	33.8
250	29	10,079	-51.5		263	58.3	29	11,002	-39.2		110	19.4	29	9,988	-50.5		261	64.7	27	10,081	-55.0		317	33.0	29	9,974	-54.3		294	35.7
200	29	11,528	-51.0		263	62.2	28	12,489	-51.8		118	19.8	29	11,447	-48.9		264	62.5	27	11,507	-54.2		304	32.4	29	11,409	-52.4		290	34.8
175	29	12,398	-50.3		265	61.8	28	13,340	-59.1		114	23.3	29	12,324	-49.0		263	57.1	27	12,366	-52.7		298	31.1	29	12,273	-52.0		285	36.3
150	29	13,402	-51.5		266	52.1	28	14,288	-66.7		107	23.1	29	13,333	-50.2		263	56.3	27	13,363	-52.5		295	30.3	29	13,274	-51.4		290	34.2
125	29	14,579	-53.9		265	49.7	28	15,369	-74.5		89	23.9	29	14,520	-51.9		263	49.5	27	14,540	-53.0		294	30.7	29	14,456	-52.4		288	32.4
100	29	16,009	-55.1		265	44.1	28	16,639	-82.7		89	21.8	29	15,960	-53.5		263	44.1	27	15,975	-53.7		298	28.4	29	15,898	-52.9		290	31.1
80	29	17,431	-56.2		267	32.4	28	17,898	-69.8		93	4.5	28	17,389	-54.1		264	36.3	26	17,402	-54.5		300	24.1	29	17,335	-53.4		292	26.2
70	29	18,280	-56.3		268	26.4	27	18,677	-69.9		276	6.2	28	18,243	-54.2		265	31.5	25	18,260	-54.6		301	20.8	29	18,193	-53.6		297	23.1
60	29	19,258	-56.3		274	22.0	27	19,605	-64.9		270	13.4	28	19,231	-55.1		266	25.8	25	19,244	-54.4		310	17.5	29	19,185	-53.8		302	21.0
50	29	20,417	-55.8		280	16.7	27	20,727	-61.4		263	18.6	28	20,396	-54.7		270	21.0	25	20,411	-54.6		317	15.7	29	20,357	-53.7		308	16.1
40	29	21,841	-55.0		288	14.0	26	22,125	-57.5		271	25.6	28	21,827	-54.1		277	15.7	23	21,838	-54.1		335	14.2	28	21,792	-53.6		312	16.1
30	29	23,682	-54.4		309	12.4	23	23,946	-55.9		274	25.1	28	23,672	-54.2		293	12.2	21	23,679	-52.9		348	12.2	28	23,645	-53.2		327	16.9
25	28	24,850	-53.7		314	11.7	22	25,109	-53.6		269	21.6	25	24,847	-53.7		293	13.0	16	24,862	-52.1		360	10.5	26	24,819	-53.2		337	16.9
20	28	26,288	-52.8		317	11.1	19	26,546	-50.1		267	10.5	22	26,291	-52.5		322	10.1	15	26,317	-51.3		13	10.3	25	26,255	-52.7		337	17.3
15	26	28,157	-51.0		330	13.4	12	28,434	-49.2				18	28,151	-51.4		321	13.2	7	28,229	-48.5				19	28,135	-50.7		346	20.2
10	22	30,808	-47.9		307	19.6	5	31,079	-46.8																7	30,794	-49.5			
7	20	33,189	-43.4		298	29.1																								
5	18	35,462	-40.5		295	37.5																								

Standard pressure surface (mb.)	ST. PAUL IS., ALASKA 998 MB						SALEM, OREG. 1020 MB						SALT LAKE CITY, UTAH 876 MB						SAN ANTONIO, TEXAS 989 MB						SAN DIEGO, CALIF. 1003 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	28	10	- 8.9	90	26	12.6	29	61	1.5	94	184	2.7	29	1,288	- 6.4	79	150	3.9	29	243	6.0	73	9	5.2	29	124	7.4	72	54	1.6
1000	28	- 10			33	11.3	29	224	3.9	75	173	1.4	29	237					29	148					29	148			54	2.3
950	28	384	-11.2	84	17	12.0	29	641	3.7	65	250	1.7	29	645					29	569	6.3	63	14	4.9	29	580	11.8	39	354	2.7
900	28	800	-12.9	80	31	7.8	29	1,080	2.5	53	280	4.1	29	1,072					29	1,013	5.7	54	280	3.1	29	1,029	9.8	30	358	5.6
850	28	1,236	-13.3	71	41	9.7	29	1,541	.8	49	297	7.0	29	1,522	- 4.2	60	164	4.3	29	1,480	4.0	50	262	8.2	29	1,501	7.2	27	354	6.2
800	28	1,696	-15.1	64	260	1.2	29	2,026	- 1.2	46	311	11.7	29	1,999	- 5.7	57	226	3.7	29	1,972	2.2	46	264	14.4	29	1,998	4.7		333	6.4
750	28	2,180	-17.8	60	244	5.8	29	2,537	- 3.2	38	318	17.1	29	2,506	- 8.6	57	294	7.6	29	2,492	.4	38	263	19.4	29	2,517	2.2		322	10.5
700	28	2,695	-20.6	57	257	7.4	29	3,083	- 5.8	34	322	20.0	29	3,035	-11.5	57	320	14.0	29	3,043	- 2.0		265	24.5	29	3,076	- .6		326	15.9
650	28	3,238	-24.0	53	252	7.2	29	3,654	- 9.1	34	326	24.5	29	3,602	-14.5	53	324	17.3	29	3,628	- 5.1		262	32.4	29	3,657	- 4.2		324	20.0
600	28	3,820	-27.4	50	248	8.9	29	4,275	-12.8	35	324	28.2	29	4,203	-17.7	47	330	20.6	29	4,254	- 8.9		264	39.0	29	4,292	- 8.4		318	23.5
550	28	4,438	-31.0	48	240	13.4	29	4,929	-16.8		323	30.1	29	4,849	-21.5	43	329	26.6	29	4,920	-13.2		264	45.5	29	4,951	-13.0		317	25.8
500	28	5,112	-34.8		234	15.3	29	5,643	-21.7		322	33.6	29	5,546	-26.0	40	332	30.3	29	5,644	-18.1		267	52.8	29	5,681	-18.0		315	27.8
450	28	5,846	-39.5		228	19.2	29	6,405	-27.3		322	36.1	29	6,301	-31.9	36	336	30.9	29	6,422	-20.9		261	61.6	29	6,452	-23.9		312	28.6
400	28	6,638	-44.7		228	21.8	29	7,248	-34.0		322	42.3	29	7,127	-37.1		335	34.8	29	7,283	-27.5		261	76.7	29	7,310	-30.6		303	32.6
350	28	7,521	-50.2		216	24.9	29	8,169	-41.3		325	45.3	29	8,038	-43.2		338	34.4	29	8,231	-33.7		262	91.3	29	8,245	-37.6		295	38.5
300	28	8,518	-53.8		215	27.8	29	9,197	-49.3		328	42.5	29	9,061	-49.7		338	39.6	29	9,297	-40.1		263	107.4	29	9,292	-45.2		283	49.1
250	28	9,689	-52.9		219	31.7	29	10,269	-57.6		327	43.7	29	10,237	-55.4		320	34.8	29	10,523	-47.0		264	110.5	29	10,493	-51.5		276	67.2
200	28	11,140	-49.8		223	31.5	29	11,761	-60.7		318	41.4	29	11,656	-55.3		310	36.5	29	11,978	-53.8		259	105.3	29	11,923	-56.1		275	76.7
175	28	12,015	-48.8		223	34.0	29	12,597	-67.7		310	38.7	29	12,513	-53.2		310	35.2	28	12,833	-56.5		258	102.6	29	12,773	-55.6		276	68.8
150	28	13,030	-47.9		224	35.2	29	13,576	-55.5		303	37.7	29	13,506	-53.6		305	37.5	28	13,804	-59.6		260	89.9	29	13,752	-57.2		276	58.3
125	28	14,234	-46.9		227	38.3	29	14,736	-56.3		304	34.2	29	14,674	-55.0		301	33.6	27	14,936	-63.1		263	76.5	29	14,897	-60.1		276	49.7
100	28	15,715	-46.2		229	36.3	29	16,151	-57.1		308	27.8	29	16,095	-56.2		296	26.2	27	16,294	-67.8		260	60.4	29	16,278	-63.3		279	39.2
80	28	17,197	-46.5		233	35.0	28	17,563	-56.5		311	18.8	29	17,507	-57.5		302	21.4	27	17,634	-68.0		257	40.8	29	17,647	-63.8		283	26.2
70	28	18,090	-46.5		230	34.4	28	18,415	-55.9		318	16.7	29	18,359	-57.2		302	16.9	26	18,450	-66.2		267	32.1	29	18,470	-63.6		286	20.6
60	27	19,102	-46.3		234	32.6	28	19,294	-55.1		327	12.6	29	19,327	-56.5		307	13.6	26	19,375	-65.2		269	21.4	28	19,415	-63.6		301	14.6
50	27	20,314	-45.8		239	33.4	28	20,560	-54.3		340	10.5	29	20,485	-55.9		320	9.1	26	20,494	-61.8		268	11.7	27	20,551	-59.8		329	7.8
40	27	21,800	-45.6		241	34.4	28	21,094	-53.1		12	8.4	29	21,909	-54.7		358	9.5	25	21,886	-59.0		281	8.0	27	21,953	-57.4		16	6.8
30	27	23,719	-45.1		242	31.3	27	23,855	-51.5		43	12.4	28	23,754	-53.7		28	11.3	25	23,702	-56.4		268	5.8	26	23,782	-54.9		59	9.9
25	26	24,936	-44.7		242	30.7	26	25,049	-50.1		46	15.2	28	24,927	-53.0		36	13.4	25	24,863	-55.3		269	8.2	26	24,950	-53.5		67	12.2
20	23	26,451	-43.2		242	28.9	23	26,506	-48.6		48	15.5	27	26,366	-52.0		43	15.5	25	26,292	-53.4		266	10.3	23	26,381	-52.2		66	13.4
15	22	28,399	-41.5		239	24.7	14	28,350	-48.4				22	28,245	-50.1		38	16.5	15	28,160	-50.4		270	19.8	21	28,256	-49.6		57	10.9
10	14	31,100	-41.9										10	30,868	-47.6				6	30,828	-45.3									

See reference note at end of table

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb.)	* SAN JUAN, P. R. 1015 MB						SANTA MONICA, CALIF. 1013 MB						SAULT STE. MARIE, MICH. 984 MB						SHEMYA, ALASKA 997 MB						* SHREVEPORT, LA. 1008 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	6	22.2	86	141	3.1	29	38	10.9	45	33	5.1	29	221	-10.3	85	325	1.4	28	38	- 2.4	74	37	13.8	29	79	4.0	79	275	1.2
1000	29	136	23.0	77	113	6.2	29	148	13.3	35	34	5.2	29	91			28	12					33	17.1	29	144			208	.6
950	29	579	20.0	75	105	14.0	29	578	12.0	29	26	4.7	29	488	- 9.0	78	291	6.2	28	416	- 5.5	71	34	15.3	29	564	4.1	64	281	4.7
900	29	1,047	17.3	67	104	12.8	29	1,030	5.8		15	3.7	29	907	- 9.9	73	288	11.8	28	838	- 9.0	73	35	13.4	29	1,001	2.4	59	297	7.8
850	29	1,533	14.7	62	100	11.8	29	1,502	7.1		8	4.7	29	1,347	-11.1	66	297	15.3	28	1,278	-12.5	71	37	10.9	29	1,462	.7	51	290	13.0
800	29	2,045	12.6	48	99	8.7	29	1,998	4.4		353	8.2	29	1,811	-12.6	58	292	16.7	28	1,738	-15.0	72	31	9.5	29	1,948	- .8	44	289	17.1
750	29	2,582	11.0	34	103	5.8	29	2,518	1.7		332	11.8	29	2,302	-14.1	51	294	21.2	28	2,220	-19.2	67	21	8.5	29	2,463	- 2.4	42	283	21.8
700	29	3,158	8.5	21	127	3.5	29	3,074	- 1.5		324	15.0	29	2,824	-16.5	52	292	23.5	28	2,731	-22.5	61	11	6.0	29	3,008	- 4.8	40	273	27.6
650	29	3,764	6.2	19	123	5.8	29	3,656	- 5.0		327	17.7	29	3,379	-19.2	50	292	24.7	28	3,268	-26.1	54	18	3.5	29	3,586	- 8.0	38	271	31.7
600	29	4,420	3.0	17	129	6.4	29	4,286	- 9.1		228	21.0	29	3,969	-22.5	44	292	26.8	28	3,847	-29.7	50	359	1.2	29	4,206	-12.0	39	266	37.7
550	29	5,112	- .8	17	143	7.6	29	4,944	-13.8		322	23.1	29	4,600	-26.3	42	289	29.3	28	4,457	-33.9	48	239	1.6	29	4,863	-16.0	39	265	43.1
500	29	5,874	- 5.9	16	138	7.2	29	5,671	-19.1		319	25.4	29	5,286	-30.7	40	285	30.3	28	5,125	-38.1		251	3.7	29	5,578	-20.9	37	263	50.3
450	29	6,683	-11.8	15	132	4.7	29	6,434	-25.2		316	28.0	29	6,026	-35.6		283	34.0	28	5,843	-42.7		227	6.6	29	6,345	-26.2	38	262	59.8
400	29	7,583	-18.1	15	309	2.7	29	7,292	-32.1		315	30.1	29	6,836	-41.5		282	36.1	28	6,630	-48.0		227	10.7	29	7,192	-31.6	37	262	69.5
350	29	8,566	-25.3	15	296	6.6	29	8,222	-39.1		309	33.2	29	7,729	-48.1		283	37.9	28	7,501	-52.1		221	15.3	29	8,126	-37.3	33	262	83.1
300	29	9,668	-32.6	15	283	16.3	29	9,263	-46.7		293	38.3	29	8,731	-53.3		284	39.8	28	8,492	-54.7		225	15.2	29	9,177	-43.5		263	94.0
250	29	10,928	-42.8		274	23.7	29	10,452	-53.7		282	53.0	29	9,899	-54.6		281	40.0	27	9,664	-52.6		233	20.8	29	10,387	-48.7		264	90.9
200	29	12,403	-52.8		271	30.3	29	11,877	-55.7		282	62.4	29	11,335	-52.2		276	38.5	26	11,106	-49.2		237	26.2	28	11,849	-51.6		263	107.4
175	29	13,252	-59.0		269	30.1	29	12,727	-55.9		281	57.7	29	12,200	-51.0		279	38.5	25	11,986	-47.7		238	27.8	27	12,715	-53.4		267	99.3
150	29	14,202	-65.9		277	26.0	29	13,705	-57.4		281	52.8	29	13,205	-50.7		277	37.1	25	13,006	-46.5		236	29.3	27	13,701	-56.5		266	94.0
125	29	15,291	-72.5		276	18.3	29	14,850	-60.0		282	44.5	29	14,393	-51.0		279	32.8	24	14,215	-45.9		236	30.3	27	14,848	-59.9		263	69.2
100	29	16,586	-77.2		276	11.3	29	16,234	-62.8		285	37.3	29	15,839	-52.2		277	34.0	23	15,704	-45.4		235	27.6	26	16,232	-62.9		260	59.8
80	29	17,853	-77.5		286	6.4	29	17,605	-63.4		291	26.0	29	17,281	-52.6		277	27.8	18	17,209	-44.8		236	29.9	25	17,601	-64.2		268	43.1
70	29	18,647	-73.3		299	4.9	29	18,427	-63.3		293	20.0	29	18,147	-52.9		280	25.6	18	18,108	-45.1		236	28.0	25	18,426	-63.4		270	33.4
60	27	19,545	-69.1		309	5.4	29	19,376	-61.7		301	15.2	29	19,136	-53.5		282	23.5	18	19,130	-45.1		235	22.5	23	19,371	-62.5		277	14.6
50	27	20,648	-63.7		288	10.3	29	20,510	-60.1		328	9.7	29	20,309	-53.2		286	22.3	18	20,349	-44.9		225	20.8	23	20,502	-60.1		276	14.4
40	26	22,036	-58.5		284	13.2	28	21,913	-57.4		8	7.6	29	21,746	-53.4		295	20.4	18	21,840	-44.9		226	20.0	23	21,901	-58.1		305	6.2
30	26	23,869	-53.2		291	14.8	27	23,736	-55.1		48	10.5	29	23,600	-53.0		299	18.8	18	23,766	-44.1		219	15.5	21	23,714	-56.6		309	4.5
25	25	25,052	-50.6		281	16.3	27	24,903	-54.2		56	13.2	27	24,774	-52.9		306	21.4	18	24,990	-43.8		215	14.0	21	24,873	-55.3		327	3.5
20	25	26,515	-47.6		276	21.8	24	26,339	-52.3		64	14.6	27	26,213	-52.8		315	23.5	18	26,489	-43.1		197	11.7	21	26,301	-53.7		341	4.5
15	25	28,430	-45.2		262	24.7	18	28,230	-49.4		66	19.6	27	28,076	-51.6		317	26.2	11	28,418	-41.9				21	28,159	-50.6		311	5.4
10	23	31,155	-41.1		232	16.9							24	30,711	-50.5		317	28.9							19	30,842	-44.4		293	12.0
7	16	33,614	-37.3		246	8.0							22	33,048	-47.3		304	43.5							13	33,273	-38.3		294	24.3
5	7	35,976	-34.7										18	35,252	-45.2		301	54.4							7	35,570	-33.9			

Standard pressure surface (mb.)	SPOKANE, WASH. 937 MB						SWAN ISLAND, W. I. 1012 MB						TAMPA, FLA. 1016 MB						* TATOOSH IS., WASH 1021 MB						TOPEKA, KANS. 984 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	722	- 3.7	83	190	3.1	29	10	25.1	81	99	8.2	29	8	11.2	86	66	1.6	29	31	6.1	85	214	2.5	29	269	- 2.2	75	287	4.5
1000	29	202					29	112	24.5	81	91	9.7	29	140	11.9	75	52	1.9	29	201	5.5	74	190	2.9	29	136				
950	29	608					29	558	21.2	81	99	11.7	29	564	10.4	68	254	4.9	29	616	3.0	76	248	7.8	29	544	- .8	62	284	6.4
900	29	1,042	- .8	63	241	7.6	29	1,028	18.5	76	118	10.7	29	1,019	9.2	60	248	13.6	29	1,055	1.0	72	263	10.3	29	976	- 2.4	58	290	9.5
850	29	1,497	- 2.4	56	270	11.1	29	1,517	16.0	68	128	9.1	29	1,493	8.6	44	250	18.1	29	1,514	- .7	64	274	11.8	29	1,428	- 3.9	54	303	11.5
800	29	1,976	- 4.7	57	292	13.4	29	2,031	13.4	63	132	6.0	29	1,993	7.2	44	252	23.9	29	1,997	- 2.5	55	287	13.8	29	1,905	- 6.5	52	311	11.7
750	29	2,478	- 7.2	54	312	16.1	29	2,568	10.3	58	149	4.9	29	2,519	5.5		253	30.9	29	2,504	- 5.1	54	292	18.3	29	2,405	- 8.9	46	302	14.0
700	29	3,017	-10.1	47	317	17.9	29	3,144	8.3	38	158	4.5	29	3,085	3.0		255	35.0	29	3,046	- 7.8	55	294	21.8	29	2,939	-11.7	45	298	15.9
650	29	3,580	-13.2	45	317	22.1	29	3,750	6.6		173	4.1	29	3,676	.0	34	257	41.8	29	3,612	-11.2	57	295	25.1	29	3,502	-14.3	40	297	18.8
600	29	4,190	-16.9	44	317	27.6	29	4,407	3.6		172	4.3	29	4,319	- 3.6	35	257	46.6	29	4,229	-15.2	50	298	29.5	29	4,107	-17.9		289	21.6
550	29	4,832	-20.8	46	320	33.0	28	5,103	.0		214	5.6	29	4,993	- 7.5	37	257	54.2	29	4,879	-19.5	51	300	32.2	29	4,745	-22.4		288	23.3
500	29	5,537	-25.5	45	325	37.1	28	5,866	- 4.7		240	7.0	29	5,739	-11.8	35	255	61.4	29	5,584	-24.0	48	302	35.7	29	5,446	-27.0		283	28.6
450	29	6,283	-30.9	44	325	37.7	28	6,683	-10.5		240	9.5	29	6,527	-17.1	36	256	70.3	29	6,337	-28.9	47	302	36.3	29	6,188	-32.3		281	31.1
400	29	7,117	-37.1		321	40.0	28	7,582	-17.4		257	9.1	29	7,413	-22.7	36	257	78.9	29	7,178	-34.9	41	300	38.5	29	7,020	-38.4		286	36.5
350	29	8,028	-43.1		329	47.0	28	8,568	-25.0		284	15.3	29	8,379	-29.5		258	86.6	29	8,095	-42.3		294	41.4	29	7,926	-43.8		282	34.6
300	29	9,051	-49.8		325	49.5	28	9,670	-32.8		279	21.6	29	9,461	-37.4		262	91.3	29	9,120	-50.4		288	41.4	29	8,949	-49.2		277	38.5
250	29	10,224	-56.6		327	49.7	28	10,926	-42.7		268	31.9	29	10,695	-46.1		262	94.4	28	10,297	-58.6		290	39.8	29	10,135	-52.3		274	46.6
200	29	11,631	-58.1		319	41.8	27	12,397	-53.5		255	31.3	29	12,148	-54.7		265	94.2	28	11,682	-62.0		288	40.6	29	11,579	-51.0		274	53.6
175	29	12,475	-55.7		318	39.6	27	13,244	-59.7		256	32.1	29	12,994	-58.4		263	101.4	28	12,514	-59.0		289	39.6	29	12,448	-51.3		274	54.6
150	29	13,462	-54.0		313	35.0	27	14,191	-66.8		255	29.3	29	13,955	-61.8		262	87.6	28	13,488	-55.9		293	38.3	29	13,448	-52.3		275	49.0
125	29	14,630	-54.7		310	32.4	26	15,279	-72.5		261	21.8	29	15,068	-67.3		261	76.0	28	14,649	-55.8		293	34.4	29	14,618	-54.2		274	44.7
100	29	16,058	-54.6		309	27.0	25	16,570	-78.8		271	15.2	29	16,397	-71.2		261	62.0	28	16,068	-56.7		300	28.0	29	16,046	-55.8		276	38.9
80	29	17,487	-54.6		307	22.7	25	17,837	-78.2		258	8.4	29	17,714	-71.1		262	49.0	28	17,485	-55.7		301	24.9	29	17,464	-56.8		277	29.7
70	29	18,341	-54.3		312	18.6	25	18,613	-74.7		251	10.1	29	18,518	-68.9		259	30.1	27	18,334	-55.6		306	22.9	29	18,309	-57.4		280	23.7
60	29	19,332	-53.5		318	15.5	24	19,513	-70.5		257	12.8	28	19,441	-65.6		270	19.9	27	19,316	-54.5		313	20.2	29	19,283	-57.3		286	18.8
50	28	20,503	-53.0		323	14.6	24	20,609	-65.1		269	17.3	28	20,557	-62.5		283	12.2	27	20,483	-53.9		319	15.9	29	20,438	-56.7		297	14.2
40	28	21,943	-52.4		333	12.4	24	21,937	-59.4		272	18.1	27	21,947	-58.6		327	6.0	26	21,925	-52.4		321	17.3	28	21,859	-55.4		319	9.9
30	28	23,812	-50.7		5	14.4	24	23,815	-53.4		270	18.8	26	23,773	-54.9		287	10.9	26	23,793	-50.6		346	15.3	27	23,701	-53.7		7	8.0
25	28	25,001	-50.4		9	14.2	23	24,997	-49.9		277	20.8	25	24,952	-53.3		287	7.0	26	24,982	-50.0		2	14.4	27	24,874	-53.3		17	9.3
20	26	26,451	-49.1		14	16.7	21	26,463	-47.7		273	23.5	23	26,397	-51.1		278	12.8	25	26,442	-48.6		355	15.0	24	26,318	-52.3		33	9.9
15	20	28,342	-48.4		14	20.0	16	28,359	-47.3				16	28,295	-46.8		269	21.8	21	28,361	-47.5		25	22.5	22	28,191	-49.8		41	12.6
10																			17	31,040	-44.5		29	25.8	20	30,865	-45.4		24	10.7
7																			5	33,416	-44.0				17	33,238	-42.9		326	14.0
5																									10	35,501	-40.5			

Standard pressure surface (mb.)	+ TRUK, CAROLINE IS. 1010 MB						TUCSON, ARIZ. 925 MB						* WAKE IS., PACIFIC AREA 1026 MB						WALLOPS IS., VA., NASA 1012 MB						WASHINGTON, D. C. 1002 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	2	27.9	77	52	11.3	29	789	2.8	35	166	4.9	29	5	24.2	71	58	10.3	19	3	.9	78	298	3.3	29	84	- 3.5	75	336	4.7
1000	29	86	27.1	78	58	14.0	29	151					29	144	22.9	73	61	13.4	19	97	.2	67	314	5.4	29	101			326	5.2
950	29	531	23.4	83	75	22.1	29	568					29	584	19.1	80	69	13.4	19	511	1.1	56	299	11.5	29	513	- 2.5	61	304	15.2
900	29	1,011	20.3	83	80	23.1	29	1,013	7.7	27	178	3.1	29	1,053	15.7	79	81	11.8	19	943	- .3	57	291	13.2	29	936	- 3.7	58	305	20.4
850	29	1,504	17.7	80	83	21.6	29	1,482	5.5	26	293	3.1	29	1,537	13.6	68	100	10.1	19	1,400	- 2.1	59	283	14.4	29	1,388	- 5.3	58	301	21.4
800	29	2,022	15.5	73	87	19.6	29	1,975	2.5	27	308	6.0	29	2,047	12.7	43	100	9.9	19	1,880	- 3.7	57	280	17.1	29	1,862	- 7.0	55	302	23.5
750	29	2,572	13.2	64	90	16.9	29	2,490	- .2	25	303	9.7	29	2,583	11.3	24	96	7.4	19	2,389	- 5.6	53	274	21.6	29	2,367	- 8.8	50	295	24.5
700	29	3,148	10.5	58	93	15.3	29	3,043	- 3.3		301	14.4	29	3,161	9.2	14	63	2.5	19	2,927	- 8.1	51	271	24.7	29	2,896	-11.5	46	281	23.9
650	29	3,768	7.5	68	94	18.6	29	3,620	- 6.5		292	21.4	29	3,767	6.8	14	346	2.1	19	3,497	-11.3	48	266	29.7	29	3,461	-14.3	40	272	26.8
600	29	4,419	4.3	41	94	22.3	29	4,248	- 9.9		291	27.6	29	4,425	3.6	14	295	5.1	19	4,110	-14.9	46	269	37.7	29	4,065	-17.5		267	31.5
550	29	5,117	.2		91	23.7	29	4,905	-14.1		291	33.0	29	5,120	- .5	14	285	8.4	19	4,761	-18.9	38	270	44.5	29	4,710	-21.2		265	36.3
500	29	5,882	- 4.1		97	24.5	29	5,630	-18.9		291	35.5	29	5,881	- 5.4	14	289	13.2	19	5,467	-23.4	39	269	50.7	29	5,409	-25.9		265	42.3
450	29	6,701	- 8.9		95	28.0	29	6,398	-24.7		291	41.6	29	6,697	-10.5	14	301	17.5	19	6,223	-28.4	40	268	57.3	29	6,160	-30.9		264	45.5
400	29	7,611	-14.5		94	27.8	29	7,253	-31.0		291	45.6	29	7,594	-17.1	15	291	21.0	19	7,065	-34.3	38	263	66.8	29	6,990	-36.3		263	50.5
350	29	8,630	-21.0		96	22.7	29	8,188	-37.1		293	48.2	29	8,583	-23.5	15	284	25.1	19	7,988	-40.0		262	77.7	29	7,906	-41.5		264	58.3
300	29	9,732	-29.1		107	19.8	29	9,238	-43.5		284	61.6	29	9,692	-31.6	15	281	28.9	19	9,029	-45.1		260	82.8	29	8,939	-46.4		263	65.9
250	29	11,008	-39.3		118	19.6	29	10,447	-49.6		280	77.1	29	10,956	-40.9		284	33.0	19	10,233	-49.8		261	88.0	29	10,139	-50.1		264	70.3
225	29	12,496	-51.8		122	22.1	29	11,895	-53.3		277	83.3	29	12,436	-52.4		279	36.1	19	11,683	-52.3		264	83.9	29	11,592	-50.9		263	72.7
175	29	13,948	-58.9		125	26.4	29	12,754	-53.8		274	73.0	28	13,286	-59.2		271	35.9	17	12,529	-52.2		262	75.6	28	12,466	-51.3		262	72.3
150	28	14,296	-66.6		121	26.6	29	13,738	-56.4		273	67.6	28	14,234	-66.8		266	34.2	16	13,522	-53.4		266	82.8	28	13,467	-52.4		263	65.3
125	28	15,379	-74.3		108	26.4	29	14,885	-60.0		276	58.9	28	15,314	-74.6		264	30.1	16	14,689	-55.3		269	62.9	28	14,639	-54.8		265	53.6
100	27	16,652	-81.5		106	22.3	28	16,266	-63.4		275	51.1	28	16,587	-81.0		257	22.3	15	16,104	-58.2		270	52.4	27	16,061	-57.0		263	47.4
80	27	17,925	-74.9		87	5.4	28	17,632	-64.2		279	41.8	28	17,844	-79.1		245	11.1	15	17,508	-58.1		269	47.4	27	17,468	-58.3		266	40.2
70	26	18,710	-69.3		271	3.1	28	18,458	-63.4		280	35.5	27	18,611	-74.7		248	8.4	15	18,353	-58.3		270	40.0	26	18,321	-58.1		267	30.1
60	26	19,642	-64.5		277	9.9	28	19,399	-62.1		284	23.1	25	19,518	-69.1		251	7.4	15	19,320	-57.8		272	30.3	26	19,278	-57.8		270	21.0
50	26	20,767	-60.5		271	16.9	28	20,532	-59.7		292	10.5	25	20,624	-63.7		257	9.1	15	20,471	-57.2		283	23.9	26	20,429	-57.1		278	17.5
40	26	22,167	-57.1		275	23.7	28	21,936	-57.2		4	3.1	23	22,005	-60.0		264	9.3	14	21,887	-56.1		283	20.2	26	21,844	-56.2		295	10.5
30	24	23,999	-54.6		275	23.1	28	23,764	-55.0		46	7.2	22	23,821	-56.0		304	5.6	14	23,720	-55.0		293	14.0	26	23,676	-54.9		315	6.4
25	23	25,171	-52.8		269	18.3	28	24,932	-53.7		56	9.7	22	24,988	-53.0		308	4.1	14	24,886	-54.5		319	5.4	24	24,846	-54.2		303	6.0
20	21	26,615	-50.3		260	11.7	28	26,372	-51.9		54	9.7	21	26,440	-49.2		312	5.2	14	26,319	-53.2		351	6.0	24	26,280	-53.3		313	8.7
15	17	28,511	-47.2		92	10.3	25	28,244	-49.6		59	11.7	21	28,339	-46.9		282	8.9	11	28,192	-51.7		314	10.3	19	28,149	-51.3		334	8.0
10							22	30,939	-43.2		28	9.1	21	31,047	-42.2		255	7.8	11	30,850	-47.3		320	7.4	15	30,789	-47.2			
7							9	33,340	-41.4				19	33,483	-38.0		239	5.1	6	33,203	-42.5									
5							6	35,656	-35.7				12	35,801	-35.1		168	6.4												
4													6	37,356	-32.2															

See reference note at end of table

RAWINSONDE DATA

Average monthly values

Standard pressure surface (mb.)	WINNEMUCCA*, NEV. 874 MB						WINSLOW, ARIZ. 851 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	1,310	- 4.8	79	41	1.4	29	1,492	- 6.0	52	250	1.9
1000	29	239					29	204				
950	29	649					29	618				
900	29	1,082					29	1,049				
850	29	1,535	- .9	51	325	1.0	29	1,498			259	1.2
800	29	2,018	- 2.8	49	328	6.2	29	1,980	- 1.1	37	319	8.2
750	29	2,526	- 5.4	47	338	12.0	29	2,489	- 4.2	38	325	11.1
700	29	3,066	- 7.5	39	346	16.1	29	3,033	- 6.9	37	325	12.0
650	29	3,640	-10.2	36	342	20.8	29	3,605	-10.0	39	319	14.0
600	29	4,253	-13.8	33	339	24.3	29	4,221	-13.7	37	319	18.6
550	29	4,906	-17.8		336	26.4	29	4,877	-18.0		313	21.4
500	29	5,615	-22.7		333	29.5	29	5,583	-22.9		312	24.7
450	29	6,376	-28.2		335	30.1	29	6,339	-28.2		307	33.2
400	29	7,214	-34.5		338	35.4	29	7,181	-33.9		302	38.9
350	29	8,134	-41.5		337	36.5	29	8,105	-40.0		297	44.5
300	29	9,162	-49.1		335	38.7	29	9,143	-46.1		298	41.8
250	29	10,339	-56.0		326	38.1	29	10,339	-51.3		285	58.5
200	29	11,749	-56.9		316	41.2	29	11,783	-52.3		285	64.7
175	29	12,599	-54.8		307	37.5	29	12,645	-52.9		284	60.4
150	29	13,585	-55.3		303	40.0	28	13,630	-54.5		280	55.6
125	29	14,746	-55.8		307	36.3	28	14,789	-57.7		279	51.1
100	29	16,161	-57.3		301	26.4	27	16,189	-60.4		279	42.0
80	29	17,569	-57.8		306	20.4	27	17,573	-61.1		282	28.7
70	29	18,419	-57.4		313	15.2	27	18,407	-60.4		281	23.3
60	29	19,387	-56.6		323	10.5	27	19,364	-60.0		291	17.9
50	29	20,546	-55.3		354	8.2	25	20,512	-58.8		318	10.1
40	29	21,974	-53.9		30	8.2	25	21,920	-56.8		357	7.2
30	27	23,824	-52.6		51	11.1	24	23,753	-55.1		21	8.4
25	25	25,005	-51.6		54	18.6	20	24,915	-54.0		20	8.9
20	20	26,447	-50.0		67	18.3	19	26,351	-52.4		48	11.3
15	14	28,355	-48.0		55	27.0	12	28,217	-49.8			
10	5	31,054	-46.9									

Standard pressure surface (mb.)	YAKUTAT, ALASKA 1007 MB						YAP, CAROLINE IS.+ 1009 MB						YUCCA FLAT, NEV. 884 MB					
	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed	Number of observations	Dynamic height	Temperature	Relative humidity	Wind Direction	Wind Speed
SURFACE	29	12	.3	91	119	5.1	29	17	26.9	82	51	15.3	29	1,196	- 4.3	44	345	4.5
1000	29	66			139	8.0	29	94	26.2	82	57	17.9	29	210				
950	29	474	- 1.6	83	154	11.8	29	539	22.4	84	62	24.5	29	622				
900	29	906	- 4.3	83	175	14.4	29	1,016	19.4	82	68	26.4	29	1,057				
850	29	1,354	- 7.1	82	188	15.9	29	1,508	17.3	75	71	23.1	29	1,512	1.5	34	360	10.1
800	29	1,824	-10.1	77	197	16.1	29	2,024	14.8	68	71	18.8	29	1,999	- .6	31	359	13.4
750	28	2,319	-13.5	68	201	16.9	29	2,566	12.9	51	78	16.9	29	2,512	- 3.2	31	7	15.7
700	28	2,837	-16.6	64	210	19.6	29	3,147	10.5	39	84	18.1	29	3,055	- 5.5		359	15.7
650	28	3,386	-19.6	64	220	24.9	29	3,757	7.6		85	20.0	29	3,630	- 8.4		351	18.3
600	28	3,982	-22.7	60	225	30.7	29	4,417	4.0		86	23.3	29	4,251	-11.8		343	21.4
550	28	4,610	-26.6	57	228	36.5	29	5,111	- .3		88	23.5	29	4,907	-16.0		345	27.0
500	28	5,298	-31.0	55	229	35.9	29	5,876	- 4.6		91	24.7	29	5,623	-21.0		335	29.3
450	28	6,031	-36.1	56	233	45.1	29	6,693	- 9.7		92	23.5	29	6,383	-26.8		334	33.0
400	28	6,847	-41.8		235	49.0	29	7,600	-15.3		90	20.8	29	7,231	-33.6		318	33.0
350	28	7,739	-47.9		241	50.1	29	8,595	-22.1		90	19.0	29	8,154	-40.3		318	35.9
300	27	8,749	-52.2		245	50.5	29	9,711	-30.2		102	17.9	29	9,187	-48.1		316	38.3
250	27	9,924	-53.7		258	47.2	29	10,981	-40.6		115	17.1	29	10,370	-54.4		308	41.4
200	26	11,371	-52.8		263	43.9	29	12,462	-52.9		129	20.4	28	11,788	-55.9		295	46.0
175	26	12,231	-53.0		261	41.4	29	13,209	-60.1		130	23.3	27	12,650	-54.7		295	50.1
150	26	13,227	-52.2		258	47.2	29	14,253	-67.6		128	25.1	27	13,634	-55.4		295	48.8
125	26	14,409	-51.5		263	43.5	29	15,329	-75.4		119	25.3	27	14,791	-57.6		297	42.0
100	26	15,858	-51.1		265	44.9	29	16,599	-81.3		107	18.8	27	16,192	-60.1		299	34.0
80	24	17,310	-50.2		272	40.2	29	17,863	-77.1		80	6.4	27	17,582	-60.6		303	26.6
70	24	18,180	-51.0		271	40.2	29	18,639	-71.9		40	1.9	26	18,417	-59.5		304	18.8
60	24	19,182	-51.2		273	43.3	29	19,559	-66.4		283	4.7	25	19,379	-59.1		313	13.0
50	22	20,367	-49.6		274	46.2	29	20,675	-62.3		278	12.0	25	20,524	-58.3		334	10.7
40	22	21,830	-48.7		282	43.9	29	22,066	-58.2		271	19.4	25	21,936	-56.2		40	8.2
30	20	23,703	-48.7		279	49.7	29	23,893	-54.7		266	22.9	24	23,768	-54.4		32	11.8
25	18	24,883	-48.3		288	49.1	28	25,058	-53.7		265	19.0	23	24,936	-53.1		45	13.2
20	16	26,345	-48.0		289	56.5	28	26,500	-50.8		269	9.5	22	26,380	-51.7		39	12.8
15	13	28,276	-45.9		288	47.0	24	28,386	-48.4		114	7.8	16	28,225	-50.4		47	16.5
10							14	31,067	-44.1				5	30,916	-48.3			

Note: All observations scheduled at 1200, G.C.T. Pressures shown under station names are the average monthly station pressures for the month of record, corrected to the height of the floors of the instrument shelters used for rawinsonde purposes. "Number of observations" refers to those of dynamic height only. Although the number of temperature observations at any given pressure surface is usually the same as for height, it is possible for temperature to be missing for one or more pressure surfaces of some observations. Relative humidity averages are limited to those observations with temperatures warmer than -40°C. Observations of wind speed and direction are sometimes lost due to limiting angles, i.e., elevation angles less than 6° above the horizon, or any obstruction above the horizon.

The temperature and wind values are based on 15 or more observations at the surface or 5 observations at a standard pressure level for temperature and 10 for wind. Relative humidity data are not published for standard pressure surfaces for which less than 16 observations are available.

Relative humidity data are computed and expressed on the basis of vapor pressure over water. Unless otherwise indicated, they are obtained from lithium chloride hygristors.

These average values for standard pressure surfaces were obtained by rawinsondes; dynamic height (geopotential) in units of .98 dynamic meter, temperature in degrees Celsius, relative humidity in percent, and resultant winds in degrees and knots.

* Rawinsondes at this station were equipped with hypsometers to permit more accurate evaluations of pressure, and consequently height, at pressures lower than 50 mb. They were also equipped with carbon hygristors. These rawinsondes were carried aloft by special high altitude balloons, in an effort to consistently reach higher altitudes.

\+ Observations for these stations are scheduled at 0000 G.C.T.

SOLAR RADIATION DATA

Solar radiation intensities, tabulated in langleys per minute on a surface normal to the direction of the sun. FEBRUARY 1964

TUCSON, ARIZ.

Date	Sun's zenith distance: A. M. 78.7°	75.7°	70.7°	60.0°	*	P. M. 60.0°	70.7°	75.7°	78.7°
	Air mass: 4.56	3.65	2.74	1.83	*	1.83	2.74	3.65	4.56
Feb.									
1-----	0.88	1.00	1.11	----	----	----	1.06	0.90	0.76
2-----	.78	.90	1.05	----	----	----	----	----	----
3-----	.82	.95	----	----	----	----	----	----	----
4-----	.80	----	----	----	----	----	----	----	----
5-----	.87	.96	----	----	----	----	----	----	.85
6-----	----	.84	1.01	----	----	----	----	.87	.70
7-----	.75	.89	1.03	----	----	1.24	1.06	----	----
12----	----	----	----	----	----	----	----	----	.83
13----	.83	.95	----	----	----	----	----	1.04	.94
14----	.78	.97	----	----	----	----	----	----	----
15----	.92	1.02	----	----	----	----	1.14	----	.86
17----	.79	.85	1.05	----	----	----	----	----	----
18----	.88	----	----	----	----	----	----	1.01	.90
19----	.89	1.01	1.17	----	----	----	----	----	----
20----	.56	.90	.95	----	----	1.24	----	.97	----
21----	.74	.86	1.00	----	----	----	----	----	.89
22----	.92	.96	----	----	----	----	----	----	.90
24----	.78	.91	1.04	----	----	----	----	.93	.83
26----	----	----	----	----	----	----	----	----	.57
27----	.78	.89	----	----	----	----	----	----	----
28----	.78	.89	----	----	----	----	----	----	.87
29----	.77	----	----	----	----	----	----	----	----
Averages	0.80	0.92	1.04	----	----	1.24	1.08	0.95	0.82

ALBUQUERQUE, N. MEX.

	Air mass: 4.19	3.35	2.51	1.67	*	1.67	2.51	3.35	4.19
Feb.									
1-----	0.91	1.01	1.13	1.21	1.37	1.28	1.09	0.96	0.85
2-----	.91	1.03	1.14	1.24	1.29	----	----	----	----
5-----	.71	.83	1.01	1.27	1.34	1.29	1.09	.95	.86
6-----	----	----	----	----	----	----	----	.85	.73
7-----	----	----	1.11	1.31	1.32	1.34	1.19	1.07	.94
8-----	.87	1.01	1.13	1.28	1.35	1.30	1.16	1.04	.93
9-----	.89	1.05	1.18	1.32	1.39	1.29	1.11	.99	.87
10----	.89	1.02	1.12	1.28	----	1.29	1.12	1.01	.90
13----	.84	.97	1.11	----	1.37	1.22	1.08	.96	.87
15----	.95	1.06	1.19	1.34	1.43	1.32	1.16	1.03	.92
17----	.89	.99	1.15	1.29	1.39	----	1.08	.96	.82
18----	.83	.96	1.08	1.25	1.37	1.28	1.08	.97	.84
19----	.88	.99	1.11	1.29	1.37	1.26	1.09	.97	----
21----	.85	.97	1.10	1.26	1.35	1.23	1.07	.94	.81
22----	.85	.95	1.04	1.22	1.33	1.21	1.02	.89	.75
24----	.81	.90	1.06	1.24	1.36	1.25	1.07	.94	.80
25----	.77	.88	1.02	1.19	----	----	----	.91	.80
26----	----	----	----	----	----	1.18	.98	.88	.75
27----	.86	.96	1.12	1.30	1.39	1.27	1.10	.98	.86
28----	.94	1.01	1.17	1.33	1.43	1.22	1.09	.96	.83
Averages	0.86	0.98	1.11	1.27	1.37	1.26	1.09	0.96	0.84

BLUE HILL OBS., MASS.

	Air mass: 4.89	3.92	2.94	1.96	*	1.96	2.94	3.92	4.89
Feb.									
3-----	0.90	1.01	1.16	1.30	1.33	1.32	1.17	1.04	0.91
4-----	----	----	----	----	----	1.20	1.00	.82	.74
9-----	.79	.89	1.04	1.18	1.32	1.30	1.15	1.04	.93
12----	----	----	1.05	1.28	1.35	1.30	1.10	.98	.87
13----	.93	1.10	1.16	1.30	----	----	----	----	----
15----	.87	.98	1.10	1.29	1.36	1.28	----	----	----
17----	.90	1.03	1.17	1.34	1.42	1.35	1.16	.96	.86
18----	.86	.95	1.11	1.30	----	----	----	----	----
20----	----	----	----	----	1.33	1.27	1.06	.87	.77
22----	.89	1.01	1.15	1.30	1.40	1.32	1.13	.99	.87
23----	.93	1.05	1.17	1.35	1.41	1.32	1.12	1.00	.89
25----	.93	1.03	1.15	1.29	----	----	----	----	----
27----	.68	.78	.94	1.22	1.42	1.30	1.16	1.01	.90
28----	.77	.88	1.03	1.21	1.32	----	----	----	----
29----	.69	.81	.99	1.23	1.40	1.28	1.15	.98	.86
Averages	0.85	0.96	1.09	1.28	1.37	1.29	1.12	0.97	0.86

MADISON, WIS.

Date	Sun's zenith distance: A. M. 78.7°	75.7°	70.7°	60.0°	*	P. M. 60.0°	70.7°	75.7°	78.7°
	Air mass: 4.69	3.75	2.81	1.88	*	1.88	2.81	3.75	4.69
Feb.									
3-----	----	----	----	----	----	----	M 0.89	M 0.71	M 0.64
4-----	HI0.59	HI0.67	HM0.79	----	----	----	----	----	----
5-----	----	----	----	----	S 1.07	S 1.11	S .90	S .75	S .66
14----	----	----	----	S 1.14	----	----	----	----	----
16----	S .83	S .95	S 1.06	S 1.21	S 1.22	----	S .93	----	----
28----	S .78	S .87	S 1.01	S 1.17	----	----	----	----	----
Averages	0.73	0.83	0.95	1.17	1.15	1.11	0.91	0.73	0.65

OMAHA, NEBR.

	Air mass: 4.78	3.82	2.87	1.91	*	1.91	2.87	3.82	4.78
Feb.									
1-----	HS0.84	HS0.98	----	----	----	----	----	----	----
4-----	----	----	----	----	HM1.04	HM1.04	HM0.92	HM0.79	----
5-----	HM .82	HM .92	HS1.06	HS1.14	HS1.28	----	----	----	----
7-----	HM .86	----	----	----	----	----	----	----	----
13----	----	----	----	----	----	HS1.28	1.09	.96	0.82
14----	HS .78	----	----	HS1.16	----	----	----	----	----
17----	----	----	----	----	----	HM1.20	----	----	----
19----	----	HM .91	HS1.04	----	----	----	----	----	----
21----	HS .84	HS .94	HS1.07	HS1.24	HS1.32	HS1.28	HS1.08	HS .88	HS .85
22----	HS .81	HS .92	HS1.10	HS1.18	HS1.30	----	----	----	----
23----	----	----	----	HM1.21	----	HS1.30	HS1.11	HS .97	----
24----	----	----	----	HS1.21	HS1.31	HS1.23	HS1.20	HS1.11	HS1.07
26----	HS .84	HS .90	HS1.08	HS1.24	HS1.24	----	HM1.04	HM .92	----
27----	----	HS .91	HS1.10	HS1.28	----	HS1.22	HS1.08	HS .98	----
29----	----	HS .96	HM1.08	DM1.20	----	----	----	----	----
Averages	0.83	0.93	1.08	1.21	1.25	1.22	1.07	0.95	0.91

MAUNA LOA OBS., HAWAII

	Air mass: 3.36	2.69	2.01	1.34	*	1.34	2.01	2.69	3.36
Feb.									
1-----	1.16	1.27	1.38	1.50	HS1.58	HS1.47	HS1.35	1.22	1.15
2-----	1.18	1.28	1.38	1.51	HS1.60	HS1.47	1.36	1.24	1.16
3-----	1.15	1.24	1.35	1.48	HS1.59	HS1.46	HS1.32	HS1.22	1.13
4-----	1.12	1.21	1.32	1.44	HS1.58	HS1.42	1.31	1.19	1.10
5-----	HS1.06	HS1.16	HS1.29	HS1.45	1.56	1.43	1.30	1.19	1.12
6-----	1.18	1.27	1.37	1.50	1.61	1.48	1.36	1.26	1.17
7-----	1.19	1.29	1.39	1.51	1.63	1.51	1.39	1.29	1.20
8-----	1.23	1.30	1.41	1.53	1.65	1.53	1.41	1.30	1.22
9-----	1.24	1.32	1.42	1.54	1.66	1.54	1.42	1.32	1.24
10----	1.23	1.32	1.42	1.54	1.64	1.53	1.42	1.32	1.24
11----	1.19	1.29	1.39	1.53	1.64	1.53	1.39	1.30	1.21
12----	1.23	1.32	1.41	1.53	1.65	----	1.33	1.23	1.15
13----	1.20	1.29	----	----	----	1.50	1.38	1.28	1.19
16----	1.29	1.33	1.43	1.55	1.66	1.52	1.40	1.29	1.21
17----	1.18	1.28	1.38	1.51	1.60	1.48	1.37	1.28	1.20
18----	1.20	1.29	1.40	1.52	----	----	----	----	----
19----	1.17	1.27	1.38	1.50	1.59	1.45	1.33	1.22	1.16
20----	1.13	1.23	1.35	1.47	----	----	----	----	----
21----	1.13	1.22	1.34	1.47	----	----	----	----	----
22----	HS1.02	HS1.11	HS1.24	HS1.39	----	----	----	----	----
24----	1.06	1.14	1.28	----	----	----	----	----	----
25----	1.02	1.13	1.26	1.42	----	----	----	----	----
26----	HS1.07	HS1.19	HS1.31	HS1.46	1.61	1.45	1.32	1.21	1.12
27----	1.11	1.20	1.32	1.47	1.62	1.48	1.34	1.23	1.15
28----	1.10	1.20	1.33	1.48	1.62	1.48	1.34	1.25	1.15
29----	----	----	----	----	1.61	1.45	1.33	1.21	1.13
Averages	1.15	1.25	1.36	1.49	1.62	1.43	1.36	1.25	1.17

GUAM, M. I.

	Air mass: 4.92	3.93	2.95	1.97	*	1.97	2.95	3.93	4.92
			No observation due to cloudiness						

HS Slight haze
HM Moderate haze
HI Intense haze
DM Moderate dust
S Slight haze - indeterminable
M Moderate haze - indeterminable
* Values corresponding to true solar noon.

Langley is the unit used to denote one gram calorie per square centimeter. An explanation of the formula used in computing the air mass values for each station listed above appears in the February 1957 issue, Vol. 8, No. 2, page 63, of this publication.

SOLAR RADIATION DATA

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

FEBRUARY 1964

Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
ALBUQUERQUE N.M.	405	319	192	284	---	180	453	455	458	445	152	155	---	279	485	402	485	489	482	271	515	501	425	---	509	443	551	555	463			398
AMES IOWA	259	111	233	248	268	150	237	147	98	112	301	52	324	313	102	354	210	184	253	322	368	349	345	354	171	379	305	379	336			250
ANNETTE ALASKA	14	15	30	61	42	42	45	40	11	108	11	65	11	23	76	100	16	114	22	41	154	172	162	183	104	139	34	108	31			68
APALACHICOLA FLORIDA	376	381	61	70	57	445	169	492	466	480	445	468	424	417	99	500	453	305	525	515	400	231	532	459	467	541	12	133	554			361
ARGONNE NAT. LAB.	280	179	134	284	286	148	105	322	219	299	334	99	86	365	107	383	286	121	169	306	253	393	210	407	284	390	420	424	449			267
ASTORIA OREGON	166	234	235	174	202	259	147	161	241	177	196	113	202	37	72	78	90	174	328	339	350	353	290	374	391	199	351	253	43			215
ATLANTA GEORGIA	218	319	357	341	60	112	133	440	361	353	411	223	49	463	37	236	460	125	298	449	385	459	488	422	88	306	64	196	458			286
BARROW ALASKA	3	5	5	7	9	9	9	11	14	19	30	25	31	27*	32	46	40	44	51	61	62	67	39	39	46	61	73	105	115			37*
BETHEL ALASKA	41	63	64	30	35	84	76	146	151	108	155	145	158	116	168	199	201	169	97	156	95	110	74	132	124	161	141	177	137			121
BISMARCK N.DAK.	159	233	259	226	171	235	120*	135	193	269	195	113	283	281	313	---	111	154	301	229	332*	190	250	232	358	373	316	330	284			237*
BLUE HILL MASS.	33	182	323	273	242	106	191	107	342	212	223	350	235	303	363	38	396	339	69	339	205	429	434	311	424	383	440	352	462			279
BOISE IDAHO	218	244	295	295	327	313	312	312	297	290	256	285	278	357	170	269	349	225	371	---	352	---	---	---	---	---	---	---	---			291
BOSTON MASSACHUSETTS	---	---	---	284	224	105	182	100	338	245	203	348	206	300	345	30	388	293	63	324	145	395	388	281	379	323	---	297	---			258
BROWNSVILLE TEXAS	46	37	104	204	485	462	324	463	397	436	---	246	106	90	473	297	186	525	511	69	36	531	365	287	487	313	338	386	233			301
BURLINGTON VERMONT	62	140	304	63	111	140	6	196	338	328	338	337	109	261	344	138	372	345	161	288	273	377	385	217	286	163	421	498	406			255
CANTON ISLAND P.I.	695	618	534	716	642	649	680	603	258	510	239	577	533	640	574	644	647	600	689	693	696	695	687	663	663	684	577	675*	686*			613*
CAPE HATTERAS N.C.	183	369	368	393	369	318	276	354	378	407	144	264	203	253	202	404	452	27	402	377	420	218	451	463	90	194	138	46	479			298
CARIBOU MAINE	99	79	215	194	118	262	81	95	252	299	284	290	203	172	313	164	327	327	256	161	126	249	349	249	346	148	390	363	395			235
CHARLESTON S.C.	284	416	238	417	104	402	109	451	431	447	155	418	331	488	158	472	461	102	430	492	497	411	504	459	45	397	58	77	526			337
CLEVELAND OHIO	9	33	255	327	257	8	51	104	204	259	307	235	48	164	123	172	234	74	114	151	164	185	278	269	---	---	---	---	---			168
COLUMBIA MISSOURI	314	208	301	309	95	154	190	220	202	177	381	17	380	---	66	412	277	262	38	127	434	432	355	429	277	474	416	450	403			279
DODGE CITY KANSAS	329	188	78	134	323	247	372	363	355	264	345	142	397	78	225	323	317	378	329	434	358	397	444	426	---	---	---	---	383			305
E. LANSING MICHIGAN	32	73	287	261	273	114	144	187	292	345	344	131	111	342	180	284	268	60	146	262	355	398	182	307	346	371	422	247	427			248
EL CENTRO CALIF. NPF	357	280	---	378	364	389	379	380	341	377	245	401	395	396	---	---	---	414	400	---	---	---	---	---	393	420	411	412	285			371
EL PASO TEXAS	459	458	300*	411	487	403	489	444	495	490	295	190	510	507	528	526	483	543	551	493	548	564	544	555	546	530	590	584	595			487*
ELY NEVADA	362	390	276	375	385	404	392	398	390	402	185	426	252	424	317	409	439	435	397	458	453	350	466	458	444	493	489	487	499			402
EPPLEY,NEWPORT R.I.	42	202	308	139	233	85	137	157	320	98	107	309	220	285	338	55	356	273	83	289	348	393	391	323	345	362	409	283	413			252
FAIRBANKS ALASKA	11	18	38	44	20	26	22	61	78	73	62	35	55	49	131	149	82	100	61	53	64	92	88	39	86	98	96	114	159			69
FORT WORTH TEXAS	395	389	93	39	72	356	429	431	431	430	437	29	231	257	367	468	73	474	487	---	488	487	433	308	391	228	502	527	220			338
FRESNO CALIFORNIA	77	108	312	320	320	305	335	341	357	360	366	365	375	379	281	259	386	395	406	391	390	397	389	419	333	433	435	406	430			347
GAINESVILLE FLORIDA	394	502	69	165	42	449	385	521	508	542	352	389	376	421	309	567	488	213	573	581	535	267	587	561	380	539	69	221	595			400
GLASGOW MONTANA	232	83	233	190	82	187	164	206	108	163	193	245	209	292	239	299	242	295	95	258	247	204	331	242	271	227	325	253	247			219
GRAND JUNCTION COLO.	184	352	374	365	341	379	376	384	361	377	222	330	290	285	374	334	399	396	324	456	458	375	473	428	398	477	482	510	491			379
GREAT FALLS MONTANA	99	220	207	195	97	109	214	147	170	126	93	235	143	271	198	268	154	187	149	29	133	120	292	211	306	170	339	285	333			190
GREENSBORO N.C.	282	385	388	383	309	212	238	415	348	321	177	319	115	427	115	334	472	50	298	412	433	257	466	412	47	389	224	62	510			303
GRIFFIN EXP.STA.GA.	233	342	317	294	67	145	157	518	448	504	515	274	80	562	78	360	548	146	415	563	453	573	587	570	92	449	66	296	505			350
INDIANAPOLIS INDIANA	324	315	263	359	346	100	190	366	91	268	403	210	104	429	121	410	359	112	253	354	328	446	262	485	353	463	492	373	489			313
ITHACA NEW YORK	24	133	129	239	65	26	15	182	263	232	340	301	57	141	280	81	328	228	73	162	226	357	368	189	332	155	344	285	389			205
LAKE CHARLES LA.	379	108	128	---	371	337	253	456	451	419	466	328	52	152	444	419	58	440	507	491	43	458	514	118	325	278	89	529	319			319
LAKELAND FLORIDA	330	445	53	37	180	420	171	444	474	407	240	474	371	104	319	475	397	87	406	541	520	106	546	520	255	522	---	170*	561			342*
LANDER WYOMING	267	309	327	327	139	340	322	320	259	318	147	377	260	344	323	342	395	389	145	354	401	384	398	246	467	370	468	435	447			332
LARAMIE WYOMING	103	231	304	312	203	337	215	292	239	316	230	309	309	269	374	365	246	329	199	355	350	356	408	383	409	405	385	430	345			311
LAS VEGAS NEVADA	386	379	399	405	400	404	399	404	395	403	338	431	388	---	398	262	---	425	---	441	442	412	452	448	287	472	471	476	450			406
LITTLE ROCK ARKANSAS	321	319	325	207	54	269	335	347	301	259	357	79	---	---	185	387	381	147	183	299	288	428	372	374	377	139	471	435	285			293
LOS ANGELES CALIF.WB	370	337	393	374	350	376	396	385	421	400	255	424	401	413	398	436	433	443	447	409	454	424	467	445	393	485	466	430	485			411
LOS ANGELES CALIF. U	379	350	387	379	364	384	394	396	423	412	260	419	406	419	386	465	434	447	448	433	463	441	469	436	310	480	462	456	505			414
MANHATTAN KANSAS	325	229	81	327	259	141	364	253	364	306	296	77	399	343	180	384	375	210	372	427	445	420	446	423	59	480	373	464	305			315
MATANUSKA ALASKA	39	47	27	33	16	25	25	---	78	132	49	74	70	134	168	169	161	148	40	45	32	91	52	25	68	33	94	167	197			80
MAUNA LOA OB.HAWAII	621	626	622	635	624	642	628	665	669	669	671	653	591	621	444	---	676	588	684	626	549	453	623	436	526	722	725	729	718			623
MEDFORD OREGON	121	142	272	249	280	293	289	223	297	223	144	150	256	288	118	259	311	332	151	369	354	368	380	383	392	371	388	135	246			268
MIAMI FLORIDA	328	419	314	89	275	247	365	322	320	221	443	413	495	437	491	376	324	370	307	533	516	103	550	503	319	528	443	472	485			379
MIDLAND TEXAS	353	380	35	254	395	334	426	378	424	421	407	113	365	421	459	458	---	431	454	154	332	478	444	345	465	381	491	498	482			378
NEW YORK N.Y. U	35	165	321	249	295	36	163	198	331	100	71	346	137	324	283	92	374	149	72	342	391	402	388	248	256	258	426	174	433			243
NORTH OMAHA NEBRASKA	309	82	110	311	328	259	365	140	254	167	280	81	398	269	273	398	326	109	374	388	440	376	448	428	190	446	385	463	372			302
OAK RIDGE TENNESSEE	281	324	324	317	177	72	79	348	165	53	324	145	7	316	16	133	346	64	127	220	313	195	382	373	133	46	287	134	409			210

Note.--Langley is the unit used to denote one gram calorie per square centimeter.
Values with an asterisk are interpolated.

U Indicates Urban sites.

SOLAR RADIATION DATA

Daily totals and monthly averages of solar radiation (direct and diffuse) received on a horizontal surface, tabulated in langleys.

FEBRUARY 1964

Station	Day of month																														
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
OKLAHOMA CITY OKLA.	354	339	247	28	39	203	403	395	342	381	383	31	375	345	98	436	146	372	405	353	419	437	370	429	86	464	317	477	346			311
PHOENIX ARIZONA	383	388	396	392	397	415	416	394	413	421	104	404	448	462	465	314	469	469	474	---	467	467	426	478	412	469	494	488	319			416
PORTLAND MAINE	50	199	301	276	207	166	86	83	334	333	---	---	244	304	338	51	370	348	110	282	178	270	386	322	378	278	273	320	414			255
RAPID CITY S.DAK.	133	201	269	232	195	283	85	213	124	163	171	264	298	207	322	180	234	287	184	263	395	246	308	191	328	358	352	365	246			245
RIVERSIDE CALIFORNIA	407	428	448	432	410	478	454	434	459	473	344	499	456	490	462	478	488	505	512	535	522	500	538	508	182	539	527	499	487			465
SAINT CLOUD MINN.	234	230	261	232	269	196	288	299	187	311	243	171	319	146	360	311	317	285	278	343	363	131	378	216	370	399	232	381	362*			280*
SALT LAKE CITY UTAH	181	360	347	355	174	371	364	355	323	355	102	408	140	398	208	291	217	342	135	424	408	363	418	267	369	396	451	457	423			324
SAN ANTONIO TEXAS	235	84	46	364	432	386	446	454	479	475	282	103	370	146	531	424	164	531	525	179	276	556	530	64	360	99	538	543	217			339
SANTA MARIA CALIF.	363	363	377	374	382	369	397	389	404	393	392	415	412	425	228	432	430	437	437	433	435	442	449	448	440	463	471	217	468			403
SAULT STE MARIE MICH	59	297	---	209	294	89	136	268	306	293	334	46	205	301	227	359	124	214	318	374	389	379	231	409	---	326	378	389	395			272
SEATTLE TACOMA WASH.	116	132	196	155	162	223	205	122	130	116	202	60	226	85	67	63	63	125	288	283	257	302	233	319	318	284	336	132	62			181
SEATTLE WASH. UNIV.	146	135	174	118	126	198	185	122	136	117	167	54	135	74	56	94	56	94	28	263	228	266	259	287	300	23	311	176	46			151
SHREVEPORT LOUISIANA	---	384	276	112	201	324	378	444	435	425	448	190	59	205	422	452	---	386	413	465	344	507	504	352	---	170	74	538	246			337
SPOKANE WASHINGTON	214	149	225	227	270	183	282	212	214	199	275	191	248	220	113	137	295	177	346	300	341	343	300	334	361	377	386	233	268			256
STATE COLLEGE PENN.	53	126	337	309	284	21	97	224	282	270	372	322	96	283	259	210	377	118	129	263	399	368	421	326	330	174	439	163	455			259
STERLING VIRGINA	115	223	313	314	296	21	142	314	285	---	171	355	128	360	128	235	339	35	196	388	392	391	430	398	---	339	392	148*	454			270*
STILLWATER OKLAHOMA	364	343	277	50	42	201	382	363	335	366	358	14	386	339	98	418	228	357	344	376	413	425	404	355	48	454	355	466	347			307
SWAN ISLAND W.I.	559	562	566	547	552	522	575	425	290	546	487	590	569	599	574	595	477	613	575	272	545	526	579	607	604	628	615	---	487			539
TAMPA FLORIDA	333	429	86	56	158	433	190	440	500	402	271	469	364	94	352	489	391	68	431	537	538	108	536	514	316	528	125	188	559			341
TUCSON ARIZONA	394	387	408	407	414	428	420	404	374	401	71	329	429	458	---	---	---	464	436	435	399	480	422	481	409	433	464	464	296			404

Note.--Langley is the unit used to denote one gram calorie per square centimeter.
Values with an asterisk are interpolated.

NET RADIATION

Net radiation in langleys per day (midnight to midnight) at Huntley, Mont.

FEBRUARY 1964

Date.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Avg.
Langleys. . .	*	*	*	*4	*	*	*	-36	-30	50	-10	22	-3	29	-1	32	-20	76	-36	28	47	-42	82	-98	-100	-54	-38	19	-11			---

The measurement is made with a Beckman and Whitley net exchange radiometer over a plot of sod. The value represents the total incoming minus the total outgoing radiation of all wave lengths.

* Instrument malfunction - data doubtful. Data reliable from 8th.

These data are of an experimental nature and are published as received from the Huntley Exp. Station. The instrument with which they were measured has not been checked by the Weather Bureau.

TOTAL OZONE DATA

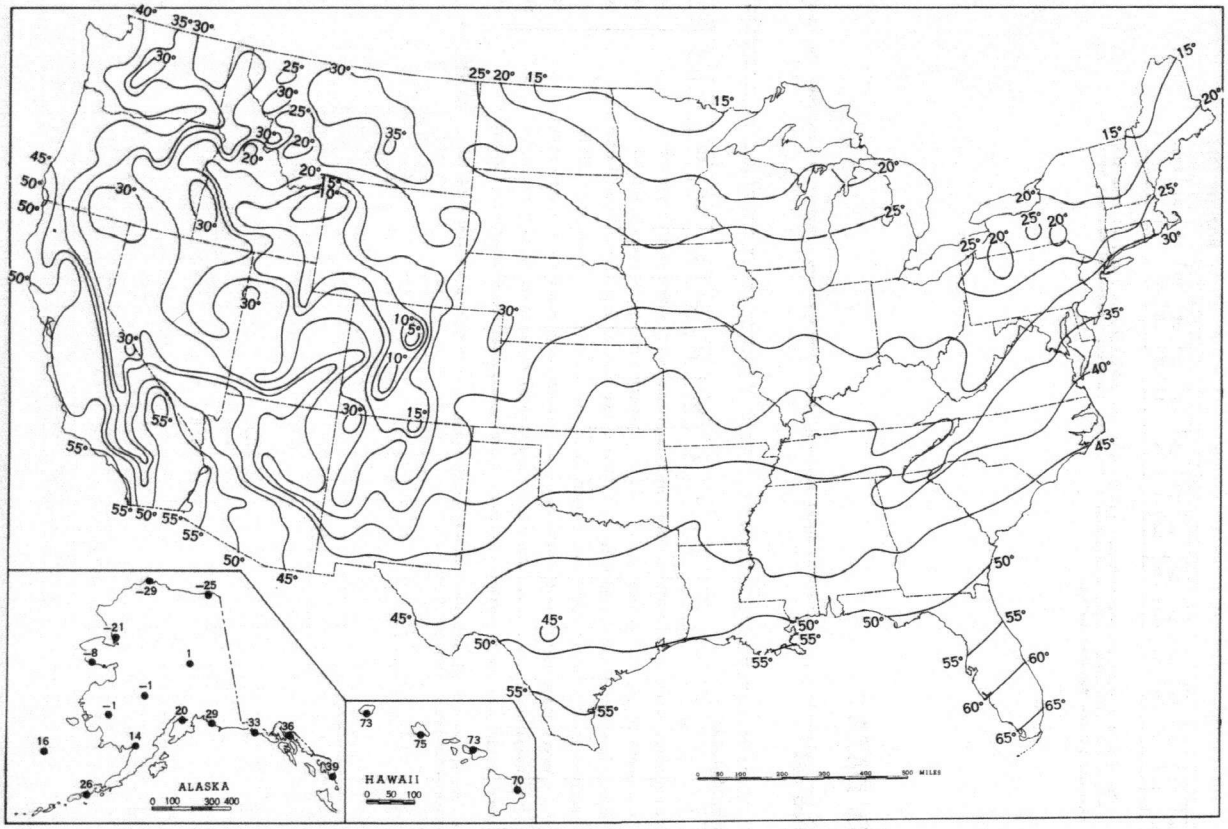
These provisional ozone data are obtained from measurements made with a Dobson ozone spectrophotometer, and are applicable approximately to local apparent noon. The data are presented in the code λ s Ω Ω Ω defined in the August 1962 WMO circular entitled "PUBLICATION OF DATA FOR METEOROLOGICAL RESEARCH, WORLD OZONE DATA."

Units: Milli-atmo-cms.

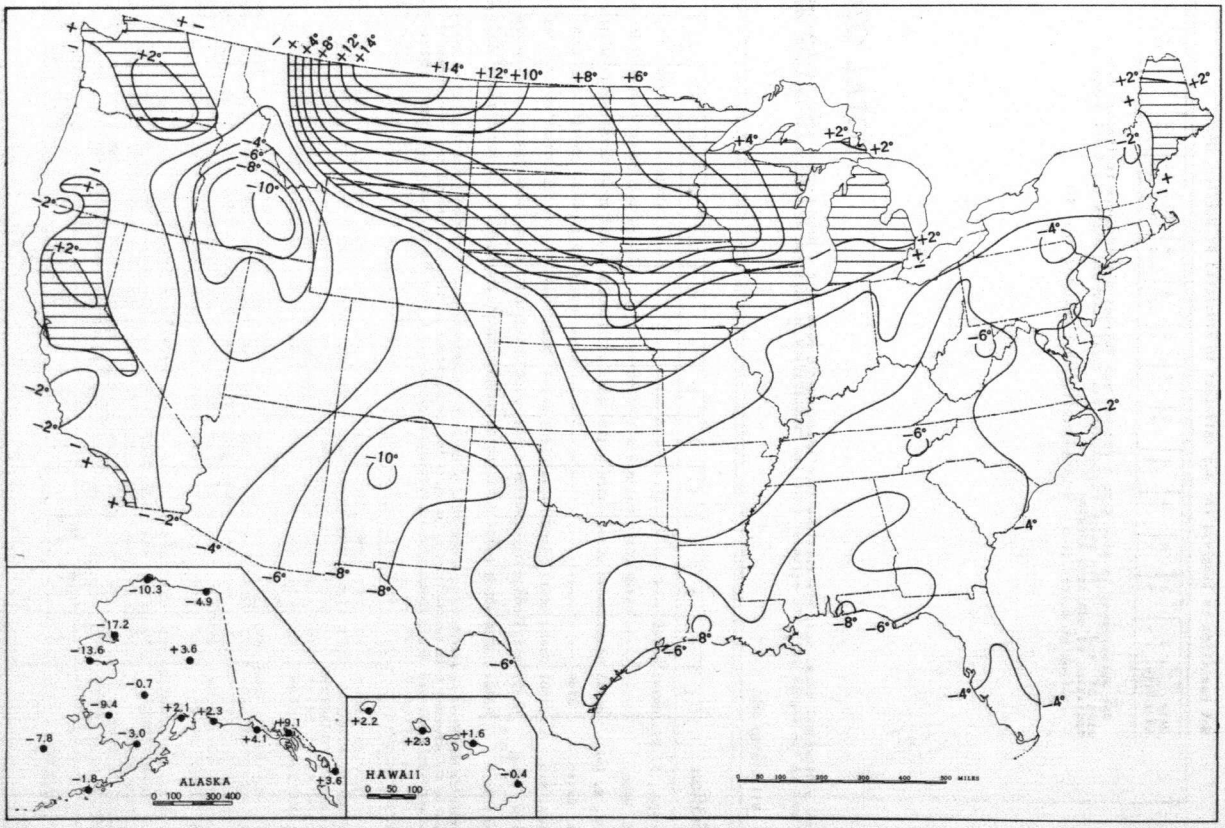
Station	Day of month																															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean O_3
Albuquerque, N. Mex.	00283	00328	-----	-----	-----	-----	-----	-----	-----	-----	03276	-----	00279	02371	00295	06344	00281	00360	00329	05372	00369	00326	05355	00325	06315	05347	00342	00336	06375			330
Bedford, Mass.	-----	-----	00428	00360	00378	05341	00383	-----	-----	00452	00412	00361	00322	00367	00335	-----	00360	00365	-----	00369	-----	-----	-----	00433	00396	00406	00424	00371	-----			382
Bismarck, N. Dak.	00383	00423	00343	00339	04378	00479	35355	35371	00450	00348	00346	36420	00389	00448	00381	00399	04389	06428	00392	04389	00366	-----	00412	00416	00462	00411	00395	00393	04436			398
Caribou, Maine	35346	-----	-----	-----	-----	-----	-----	05440	00418	00410	00454	00371	00348	32385	00456	04412	00422	00425	00393	06424	06414	05448	00431	00433	00407	-----	00468	00427	00439			417
Green Bay, Wis.	04381	05400	06417	04364	00358	02407	06503	00399	00405	00440	00354	04358	00367	00398	06432	-----	00419	00406	05407	00412	00462	00431	-----	00398	00449	00434	00418	00435	00380			409
Nashville, Tenn.	00317	00303	00322	00347	04358	04388	05408	00338	00395	04455	00357	04287	-----	00302	-----	05350	00325	06401	-----	-----	06407	00403	00402	00351	00349	05369	00359	00414	00339			362
Sterling, Va.	05324	02335	00359	00408	03345	06492	03369	00386	00376	06433	-----	00327	05304	00310	05317	00357	00333	-----	06400	00383	00410	00409	00398	00402	04361	00339	00353	04355	00361			368

The spectrophotometer measures the total amount of ozone in the atmosphere, i. e., the amount contained in a vertical column of air extending from ground level to the top of the atmosphere in the vicinity of the station. The amount of ozone in this column (coded Ω Ω Ω) is expressed in terms of a thickness of a layer it would occupy at standard temperature and pressure, e. g., 350 milli-atmo-cm ozone implies an ozone layer 0.350 centimeter thick. The code λ s designates the type of measurement made.

Chart I. A. Average Temperature (°F.) at Surface, February 1964.



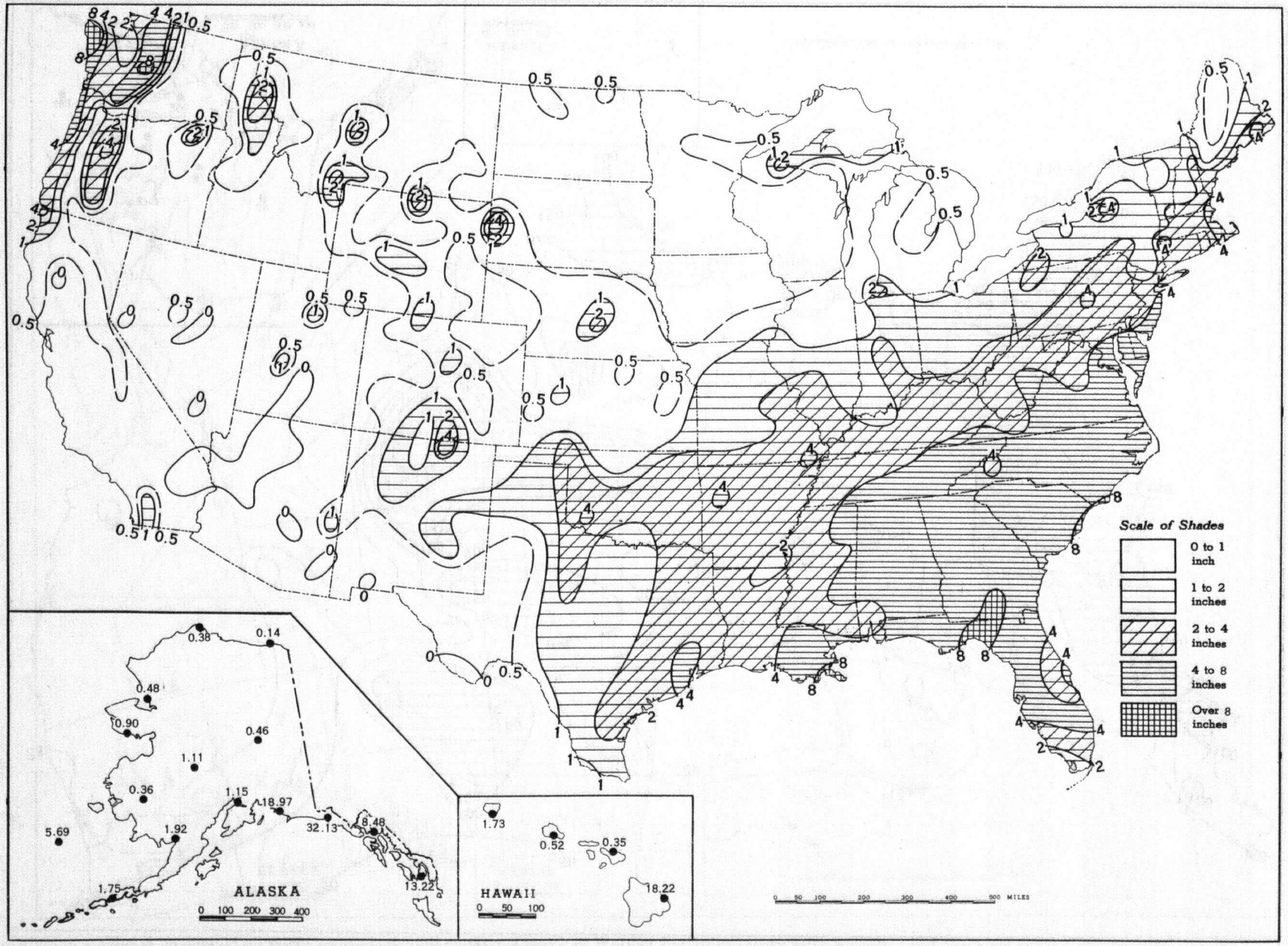
B. Departure of Average Temperature from Normal (°F.), February 1964.



A. Based on reports from over 870 Weather Bureau and cooperative stations. The monthly average is half the sum of the monthly average maximum and monthly average minimum, which are the average of the daily maxima and daily minima, respectively.

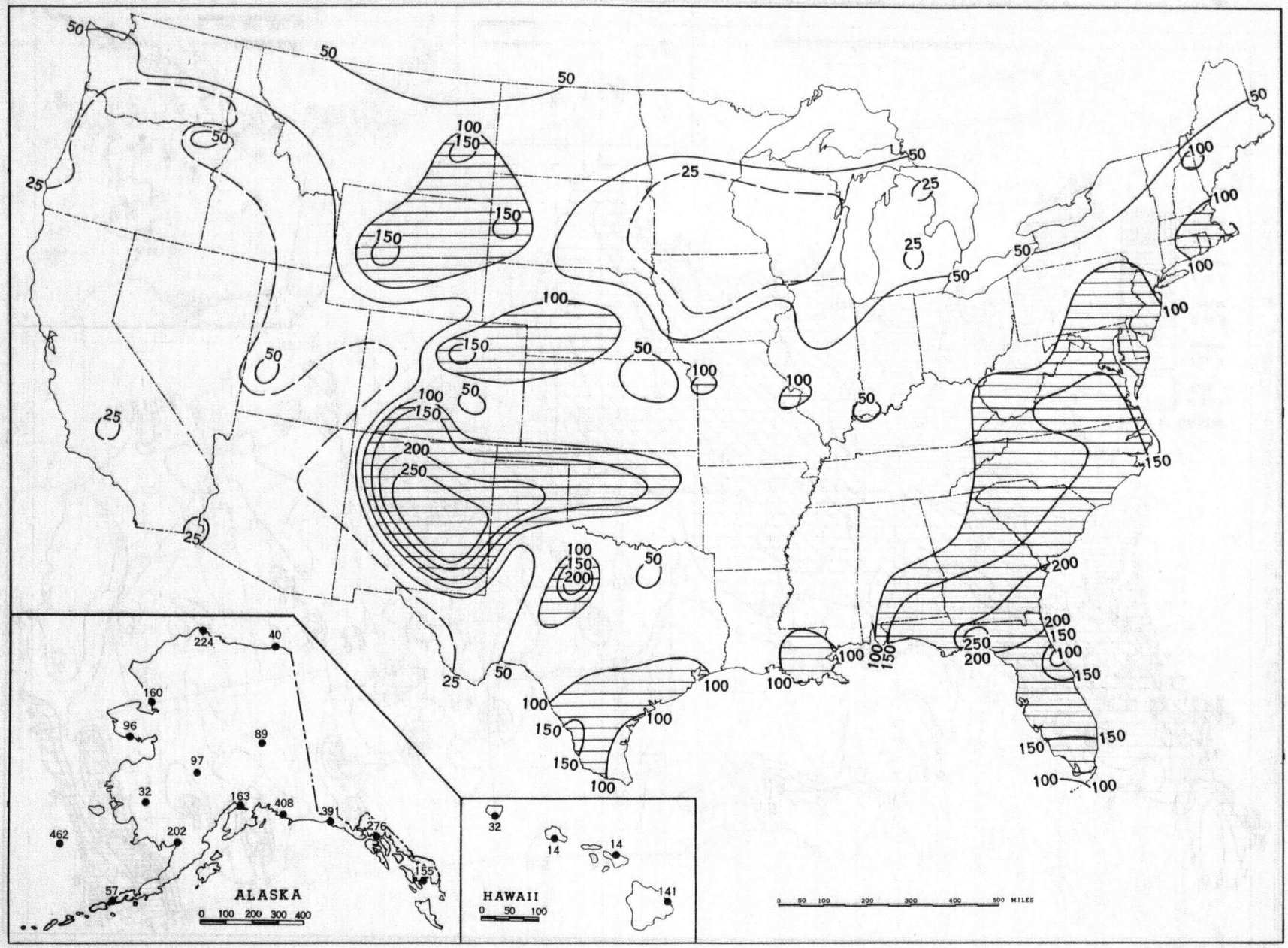
B. Departures from normal are based on the 30-yr. normals (1931-60) for first-order Weather Bureau stations.

Chart II. Total Precipitation (Inches), February 1964.



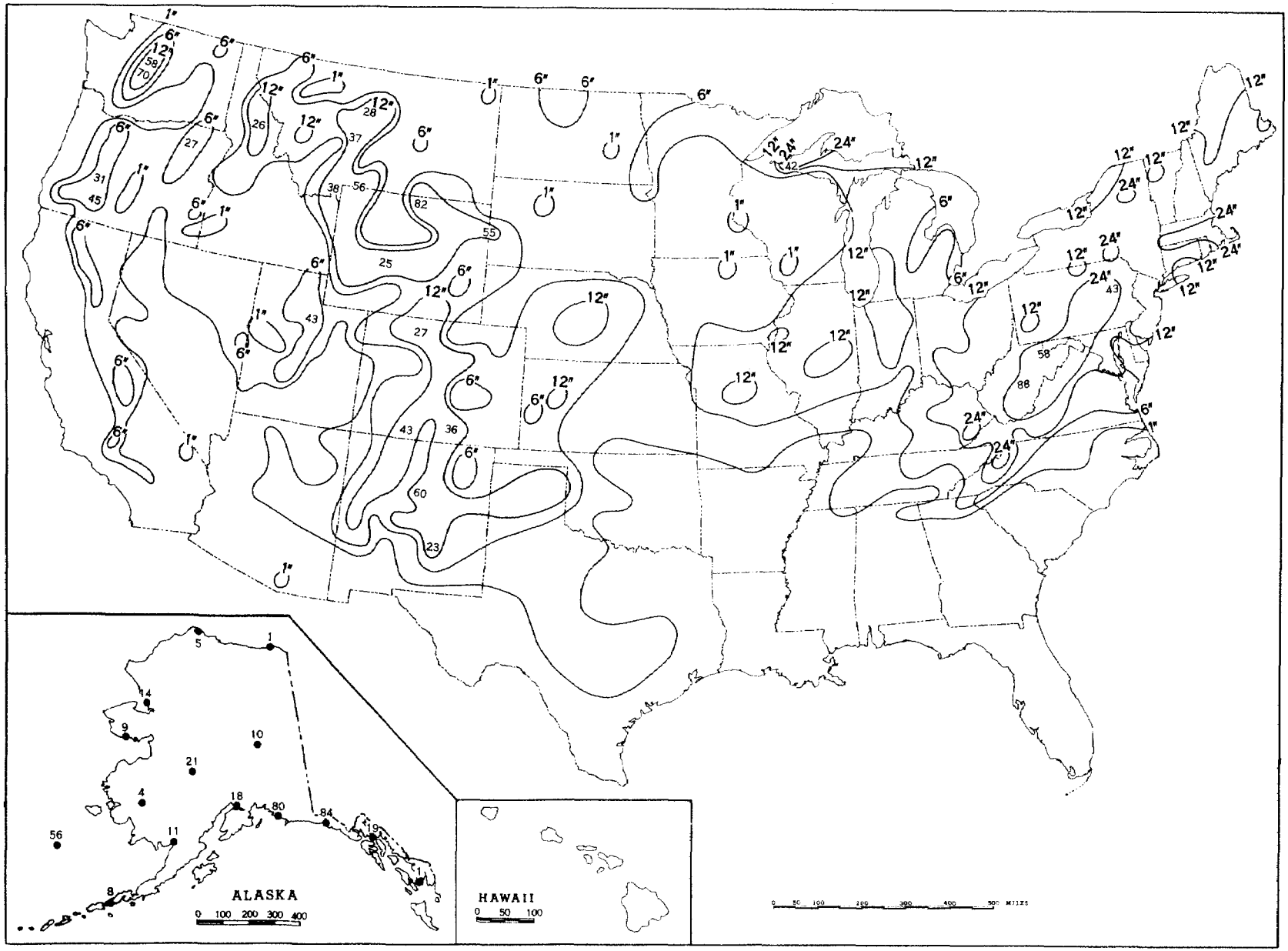
Based on daily precipitation records at about 870 Weather Bureau and cooperative stations.

Chart III. Percentage of Normal Precipitation, February 1964.



Normal monthly precipitation amounts are computed from 30-yr. normals (1931-60) for first-order Weather Bureau stations.

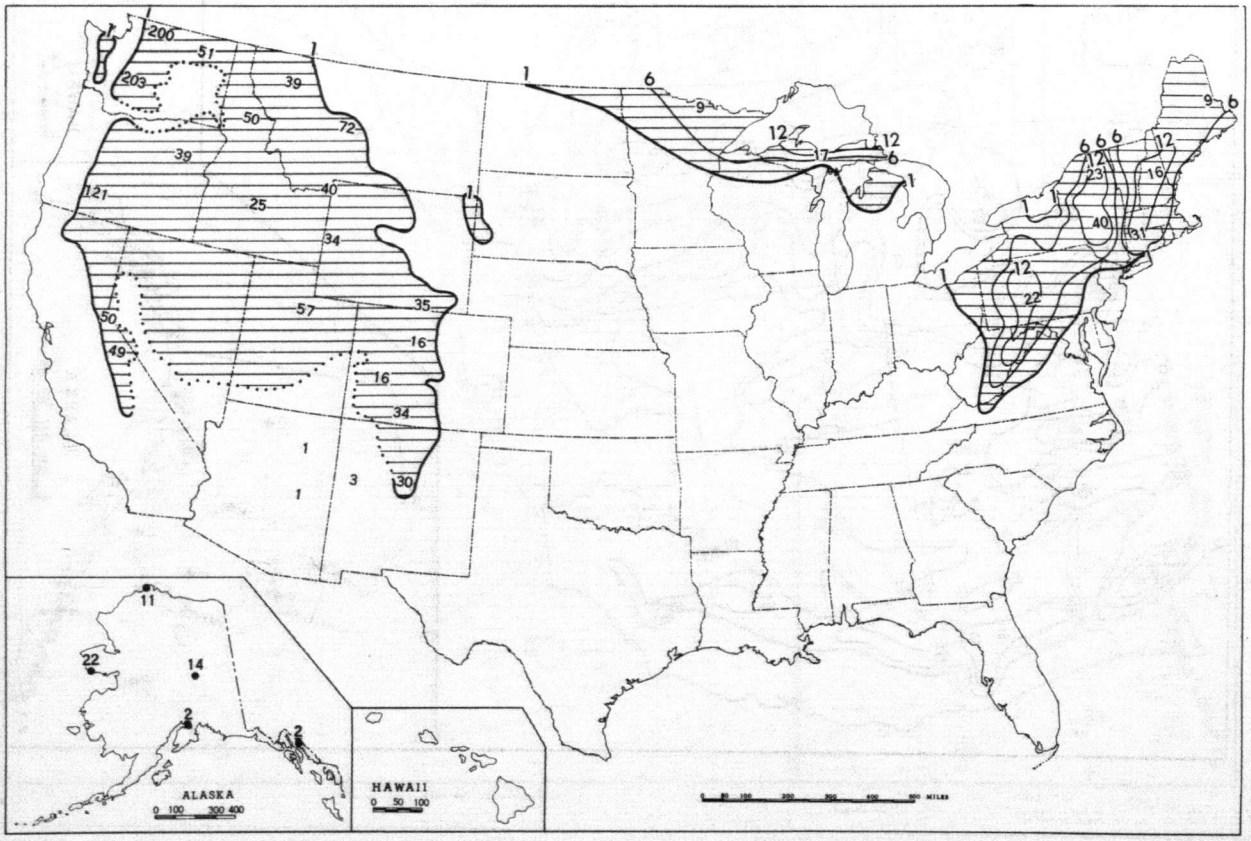
Chart IV. Total Snowfall (Inches), February 1964.



This is the total of unmelted snowfall recorded during the month at Weather Bureau and cooperative stations. This chart and Chart V are published only for the months of November through April although of course there is some snow at higher elevations, particularly in the far West, earlier and later in the year.

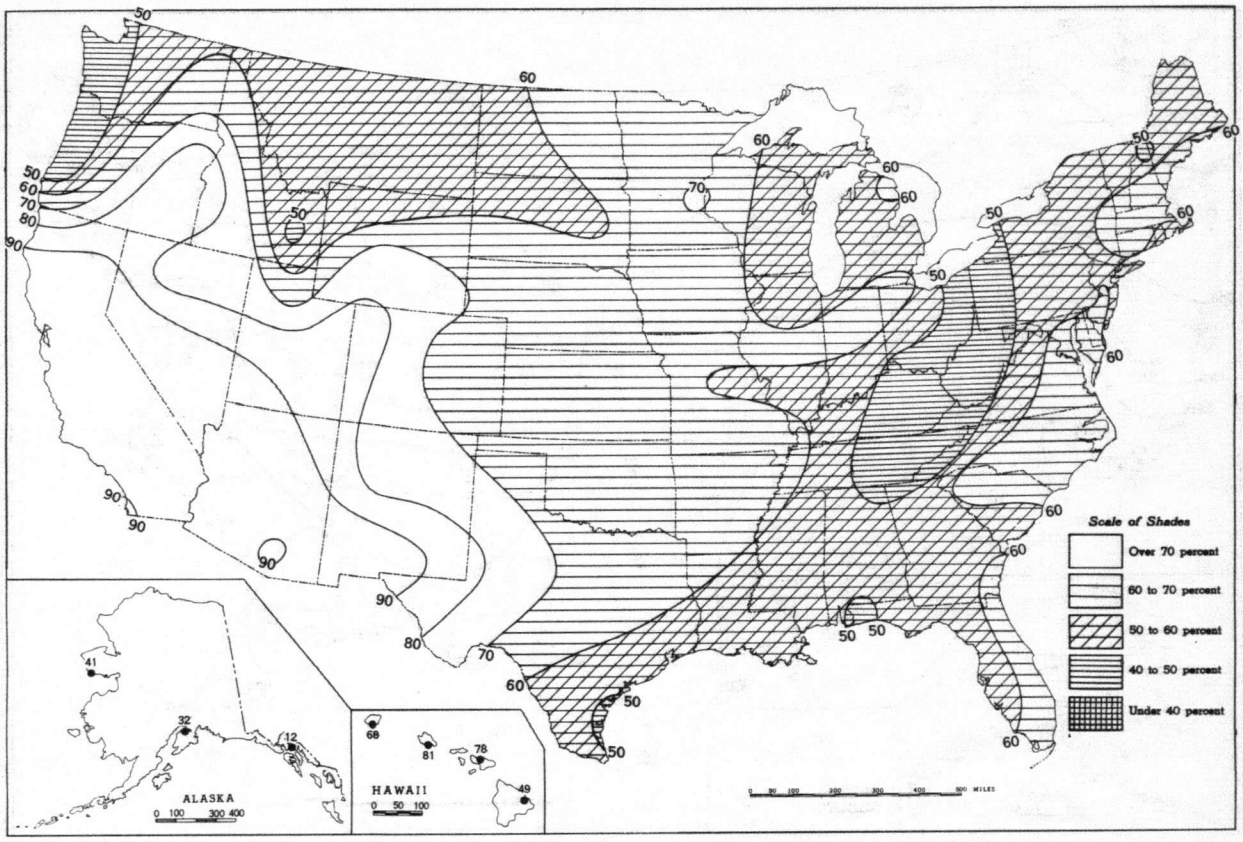
Chart V. A. Percentage of Mean Monthly Snowfall, February 1964.

B. Depth of Snow on Ground (Inches), 7:00 a. m. E. S. T., March 2, 1964.

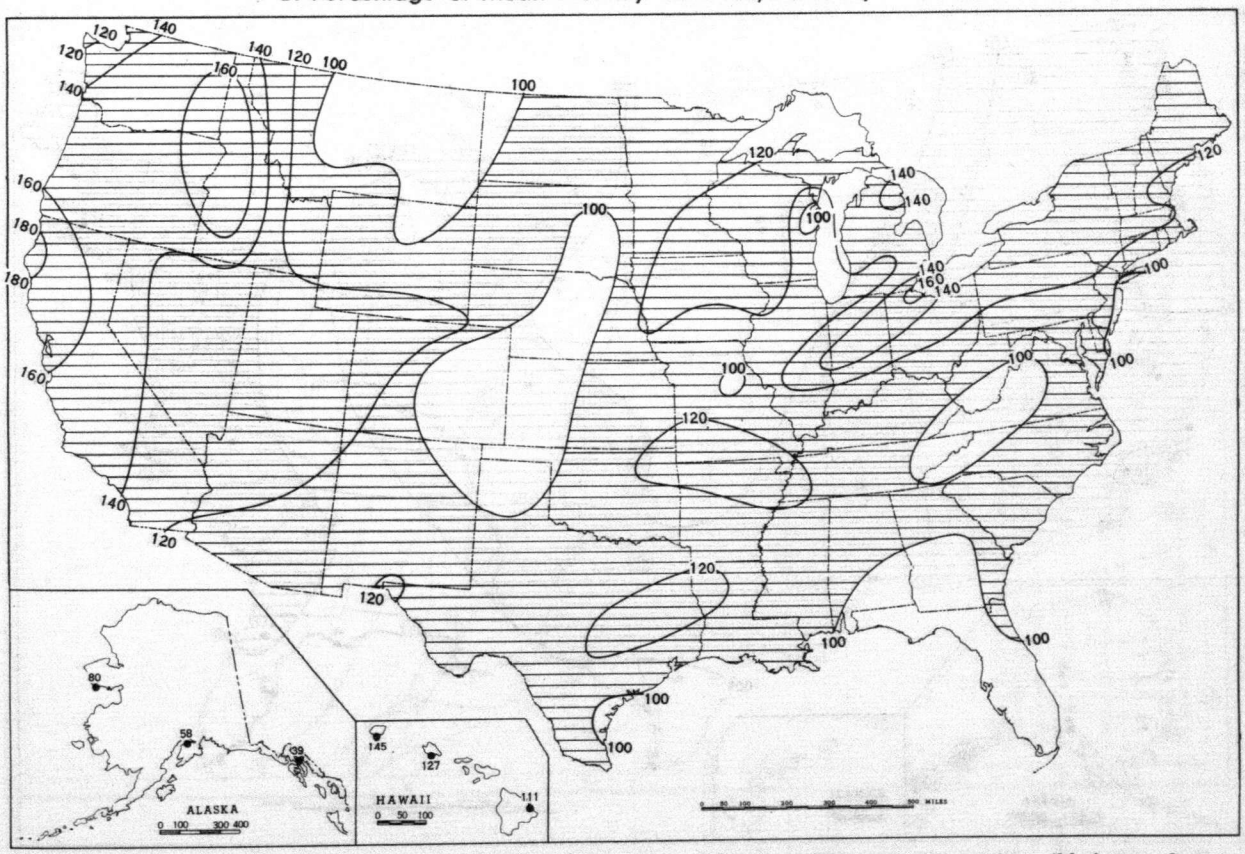


A. Amount of mean monthly snowfall is computed for Weather Bureau stations having at least 10 years of record.
B. Shows depth currently on ground at 7:00 a.m. E.S.T., of the Monday nearest the end of the month.
It is based on reports from Weather Bureau and cooperative stations.

Chart VI. A. Percentage of Possible Sunshine, February 1964.

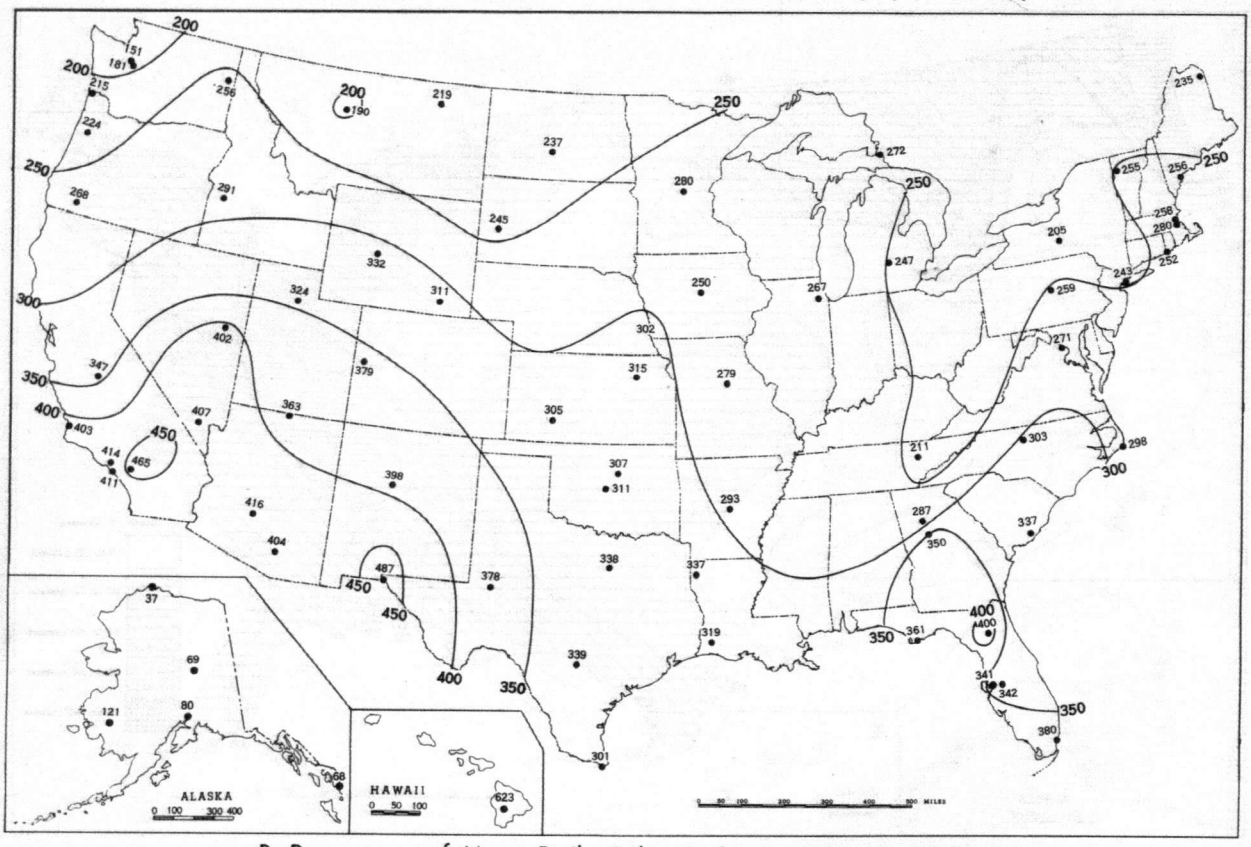


B. Percentage of Mean Monthly Sunshine, February 1964.

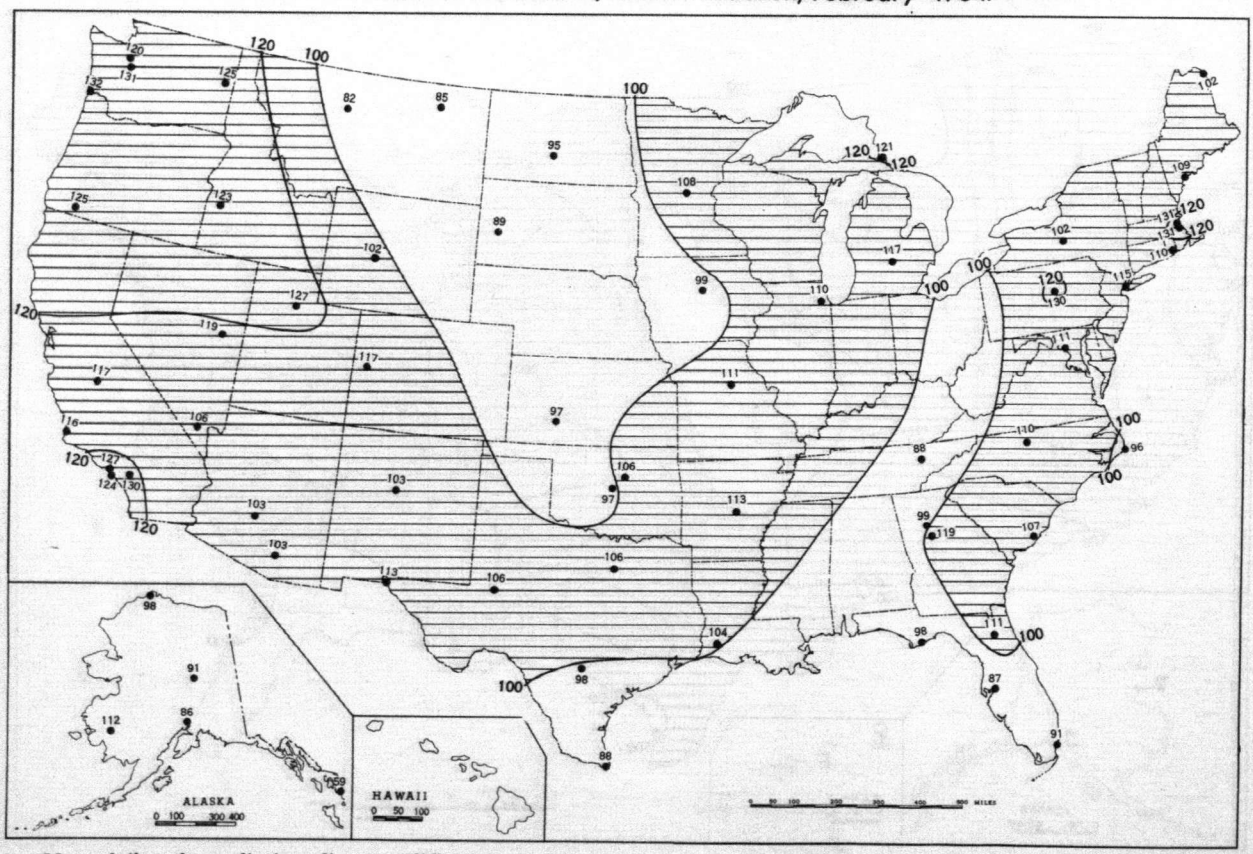


A. Computed from total number of hours of observed sunshine in relation to total number of possible hours of sunshine during month. B. Means are computed for stations having at least 10 years of record.

Chart VII. A. Average Daily Values of Solar Radiation, Langleys, February 1964.

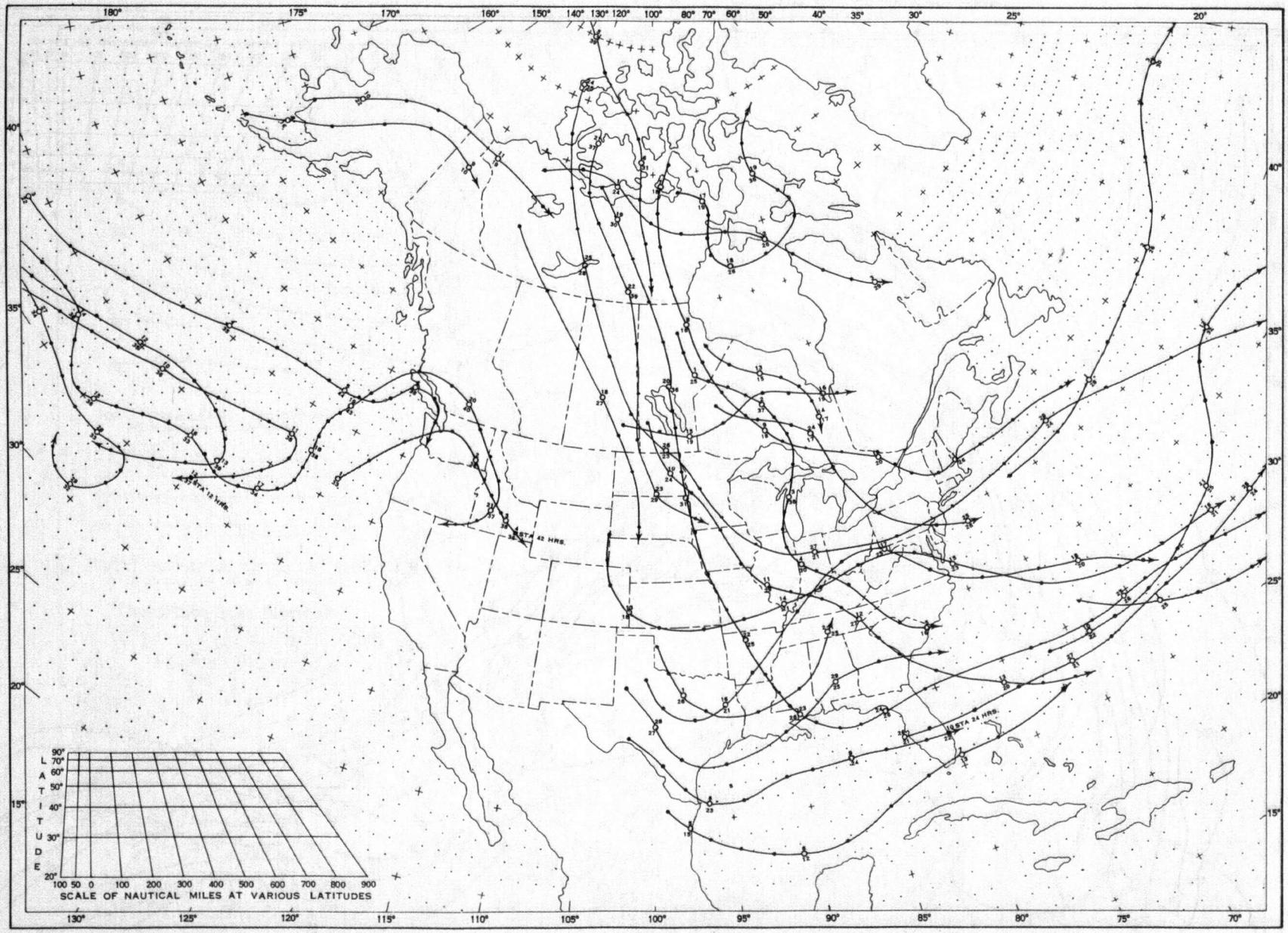


B. Percentage of Mean Daily Solar Radiation, February 1964.



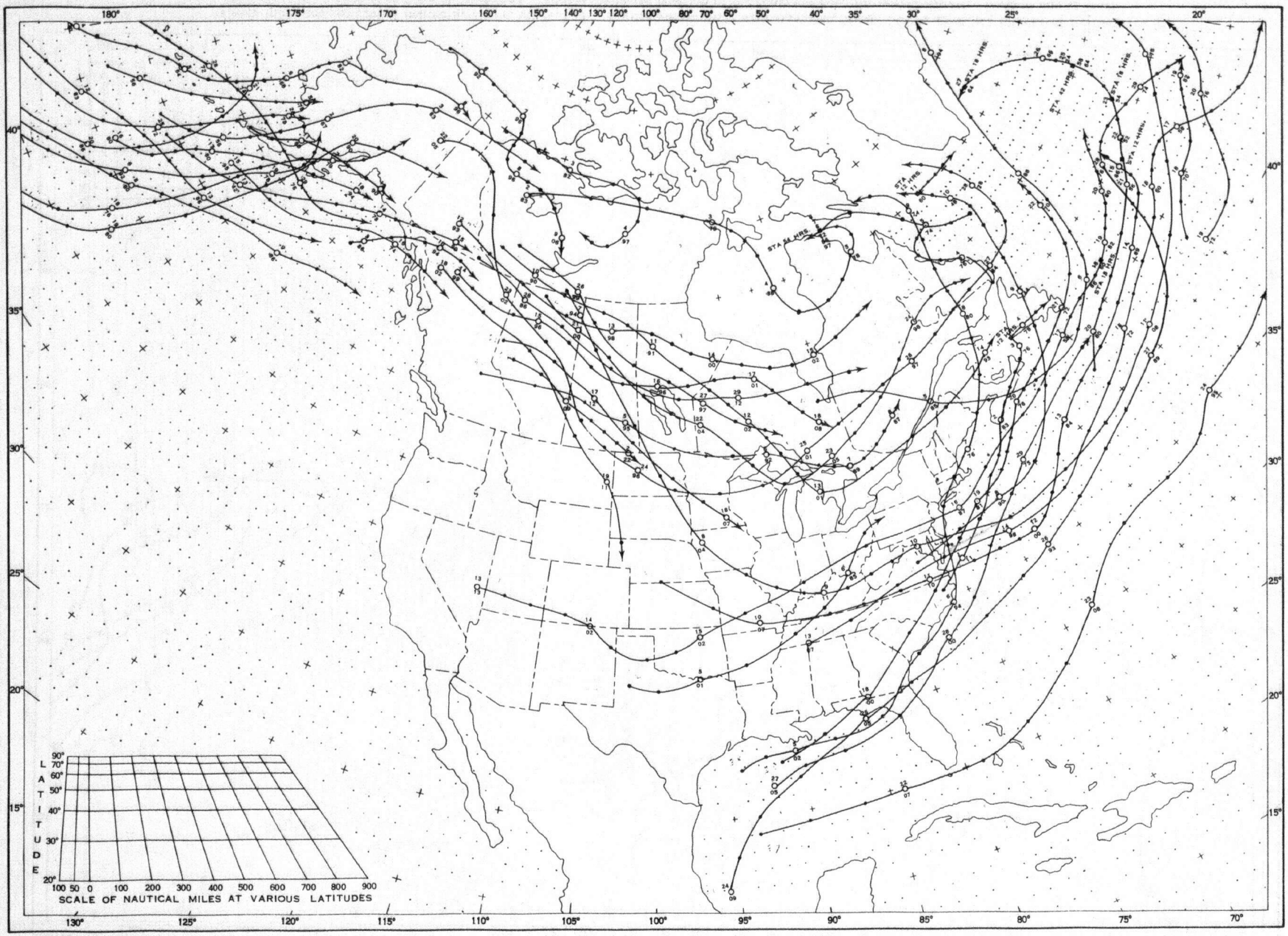
A. Mean daily solar radiation, direct + diffuse, received on a horizontal surface in langleys (1 langley = 1 gm. cal. cm.$^{-2}$) and recorded in International Pyrheliometer Scale of 1956. B. Percentage of the mean based on at least 5 years of record during the period 1950-60, and corrected to the International Pyrheliometer Scale of 1956.

Chart VIII. Tracks of Centers of Anticyclones at Sea Level, February 1964.



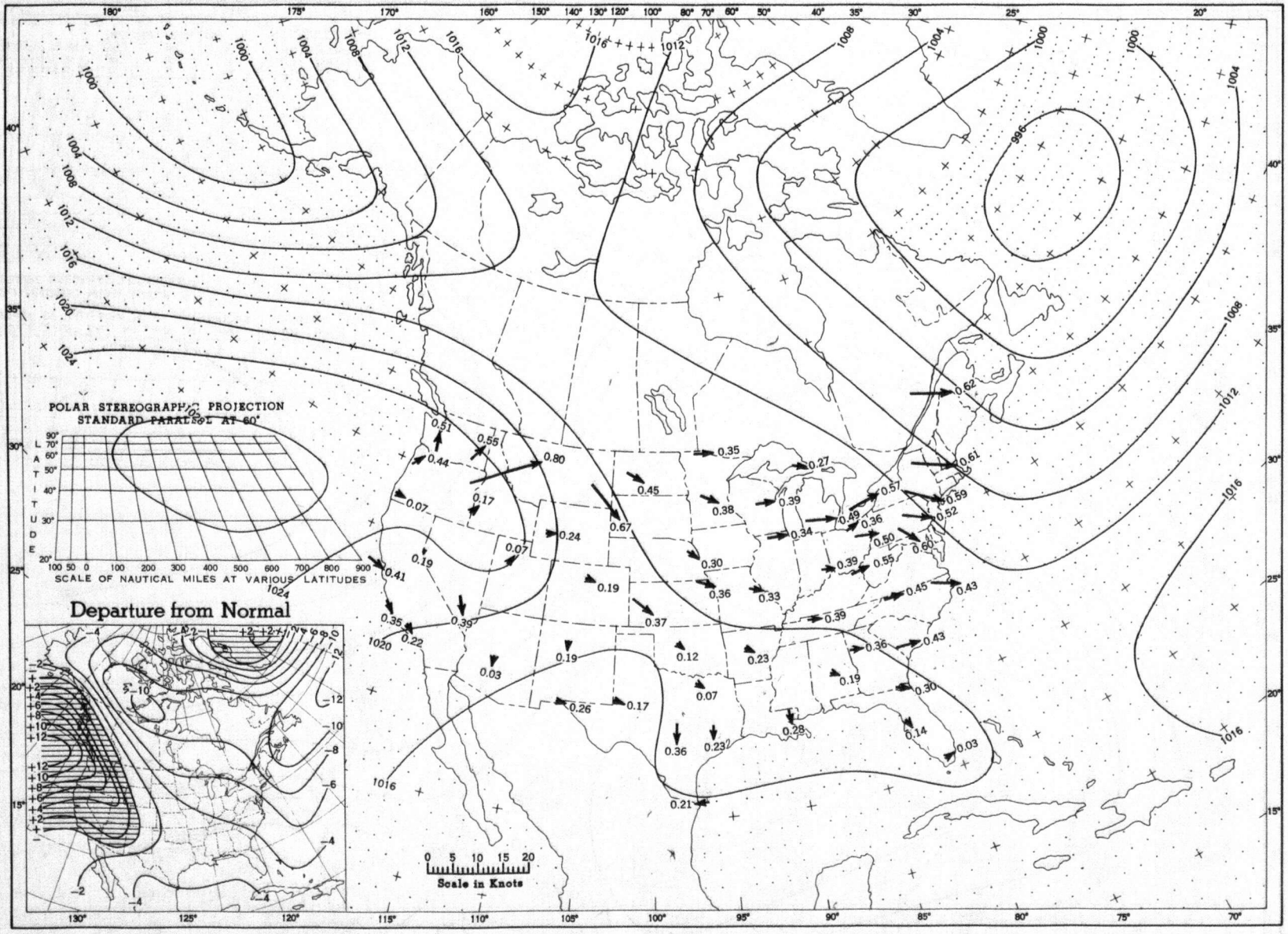
Circle indicates position of center at 7:00 a. m. E. S. T. Figure above circle indicates date, figure below, pressure to nearest millibar. Dots indicate intervening 6-hourly positions. Squares indicate position of stationary center for period shown. Dashed line in track indicates reformation at new position. Only those centers which could be identified for 24 hours or more are included.

Chart IX. Tracks of Centers of Cyclones at Sea Level, February 1964.



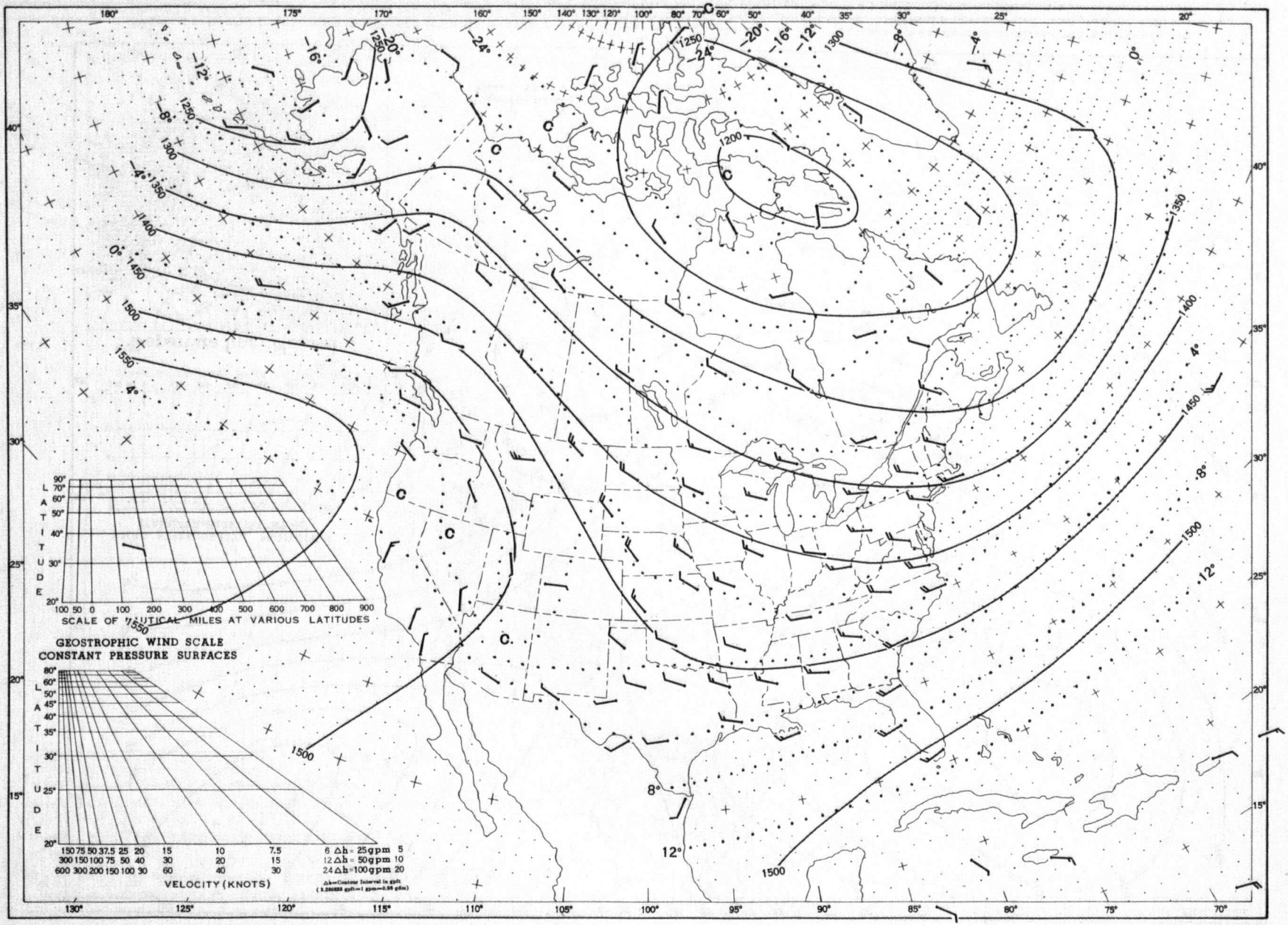
Circle indicates position of center at 7:00 a. m. E. S. T. See Chart VIII for explanation of symbols.

Chart X. Average Sea Level Pressure (mb.) and Resultant Surface Wind, February 1964. Inset: Departure of Average Pressure (mb.) from Normal, February 1964.



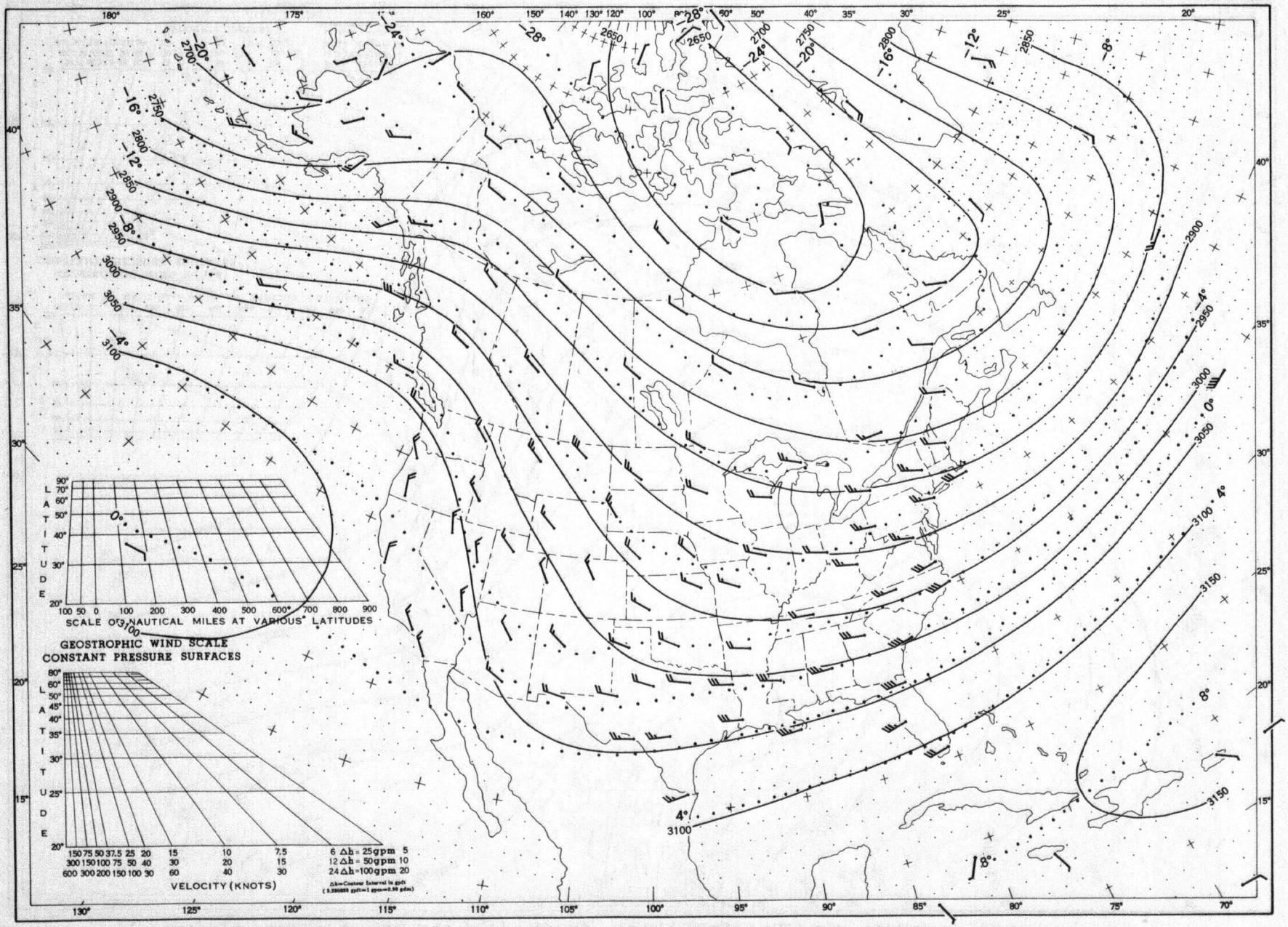
Average sea level pressures are obtained from the averages of the 7:00 a.m. and 7:00 p.m. E.S.T. readings. Resultant wind directions and speeds are shown by arrows. Constancy ratios (resultant speed ÷ average speed) are shown to two decimal places. Pressure normals are computed for stations having at least 10 years of record and for 10° intersections in a diamond grid based on readings from the Historical Weather Maps (1899-1939) for the 20 years of most complete data coverage prior to 1940.

Chart XI. 850-mb. Surface, 1200 GMT, February 1964. Average Height and Temperature, and Resultant Winds.



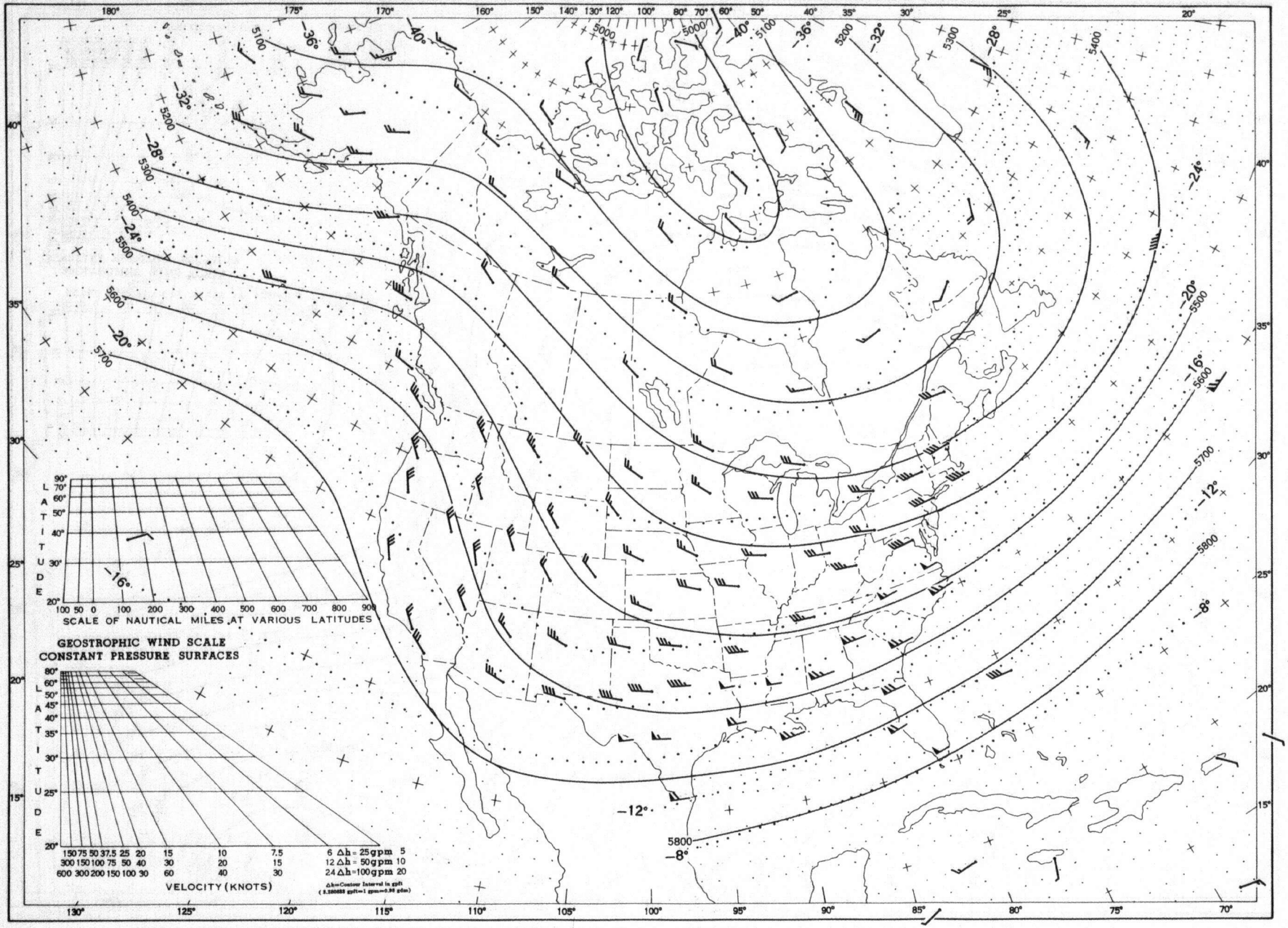
Height in geopotential meters (1 g.p.m. = 0.98 dynamic meters). Temperature in °C. Wind speed in knots; flag represents 50 knots, full feather 10 knots, and half feather 5 knots. All wind data are based on rawin observations.

Chart XII. 700-mb. Surface, 1200 GMT, February 1964. Average Height and Temperature, and Resultant Winds.



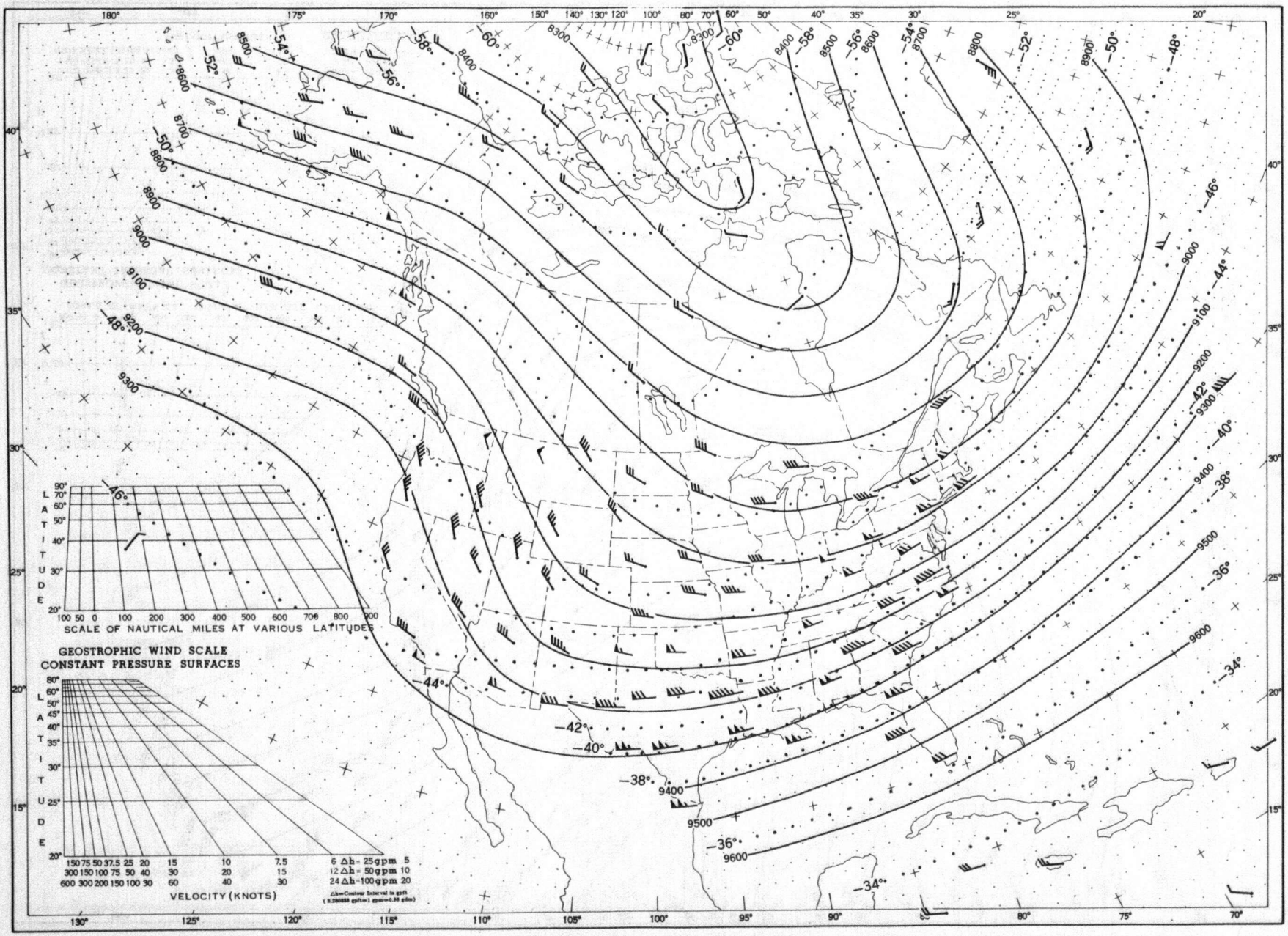
See Chart XI for explanation of map.

Chart XIII. 500-mb. Surface, 1200 GMT, February 1964. Average Height and Temperature, and Resultant Winds.



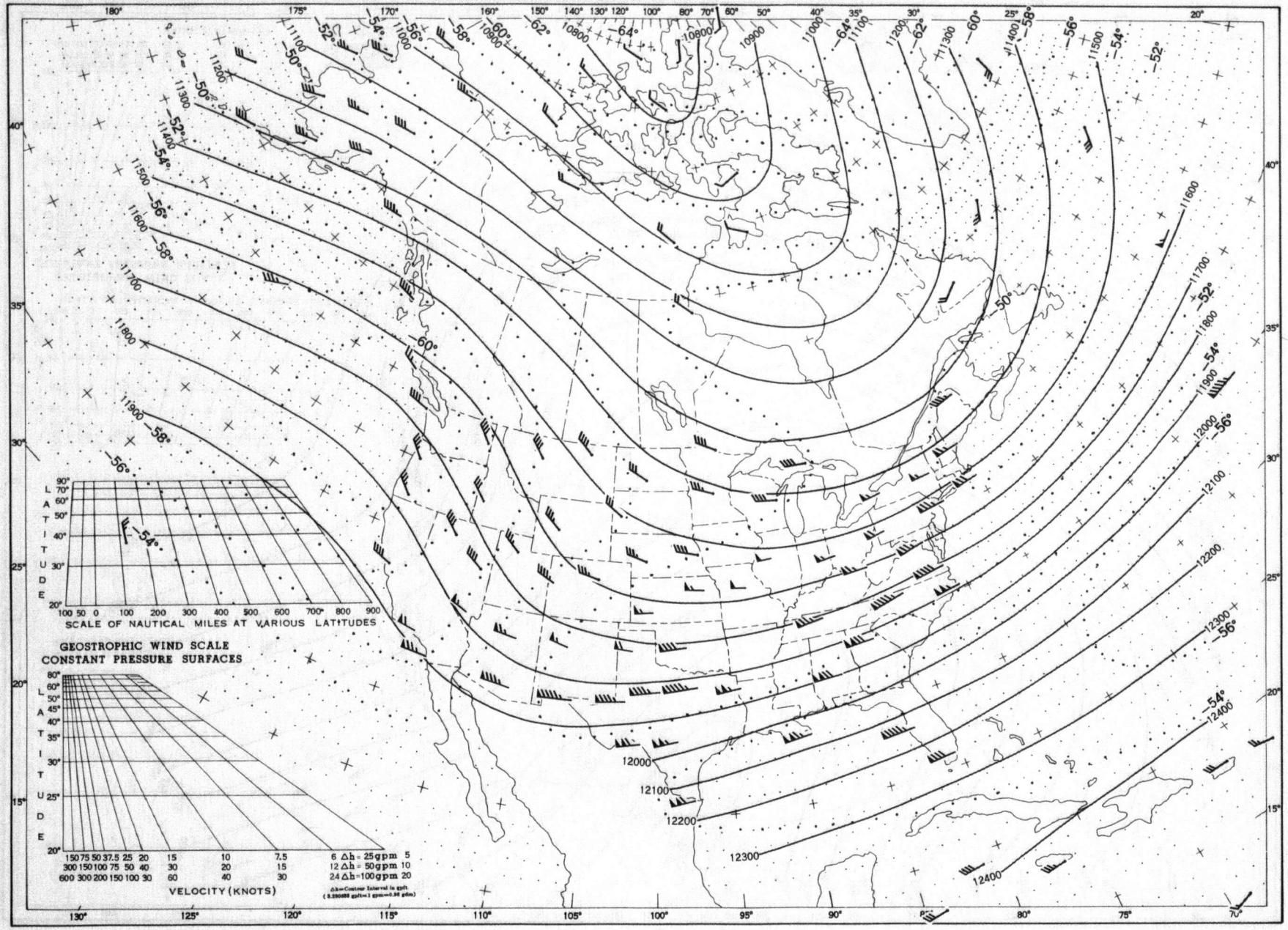
See Chart XI for explanation of map.

Chart XIV. 300-mb. Surface, 1200 GMT, February 1964. Average Height and Temperature, and Resultant Winds.



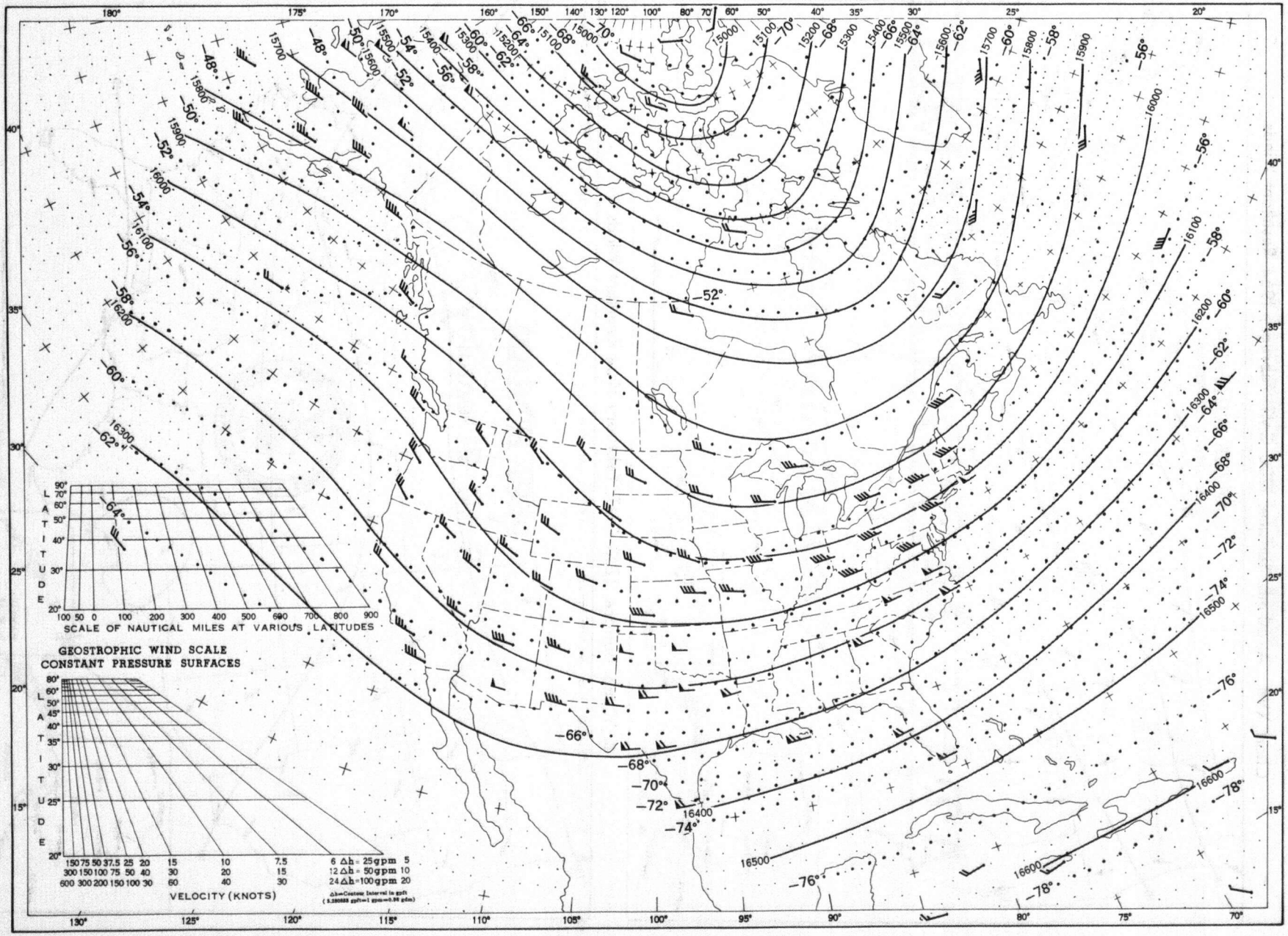
See Chart XI for explanation of map.

Chart XV. 200-mb. Surface, 1200 GMT, February 1964. Average Height and Temperature, and Resultant Winds.



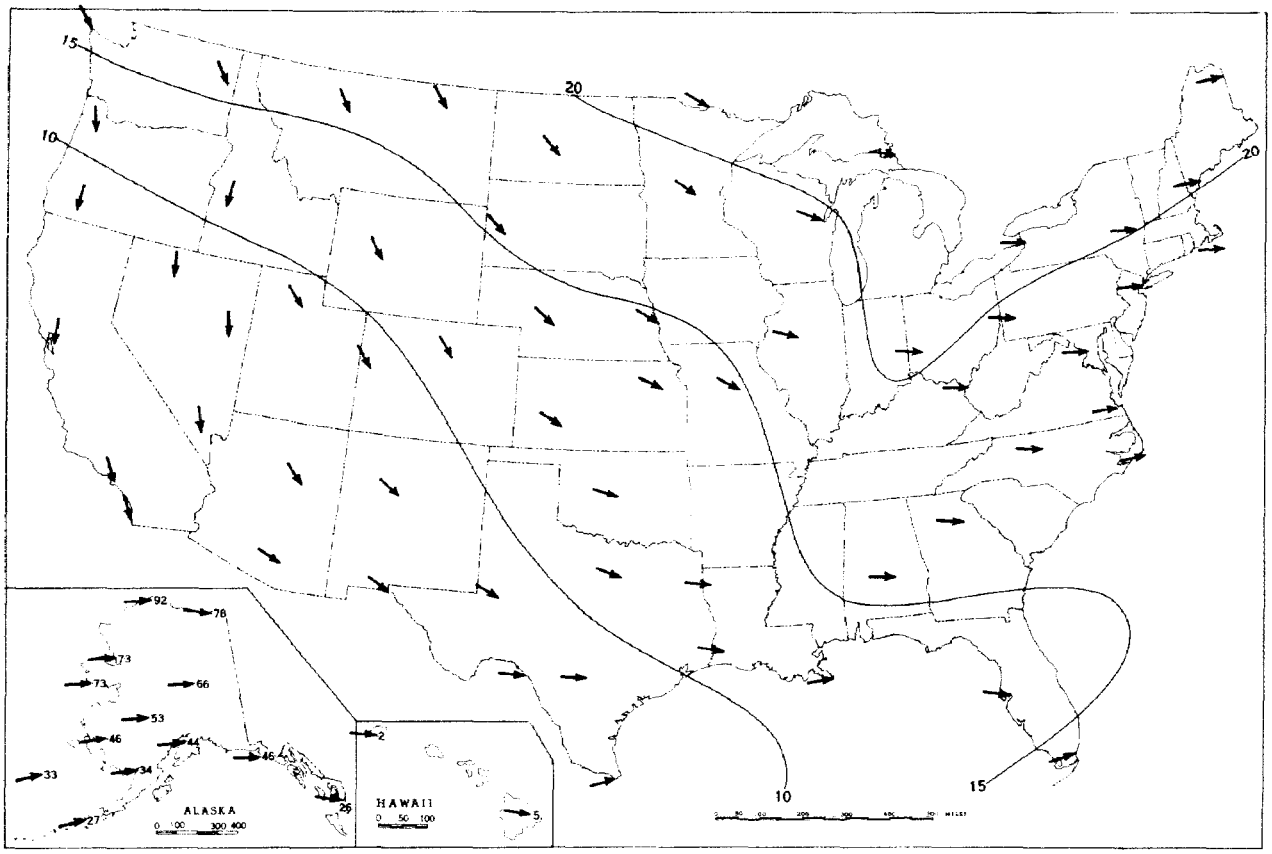
See Chart XI for explanation of map.

Chart XVI. 100-mb. Surface, 1200 GMT, February 1964. Average Height and Temperature, and Resultant Winds.

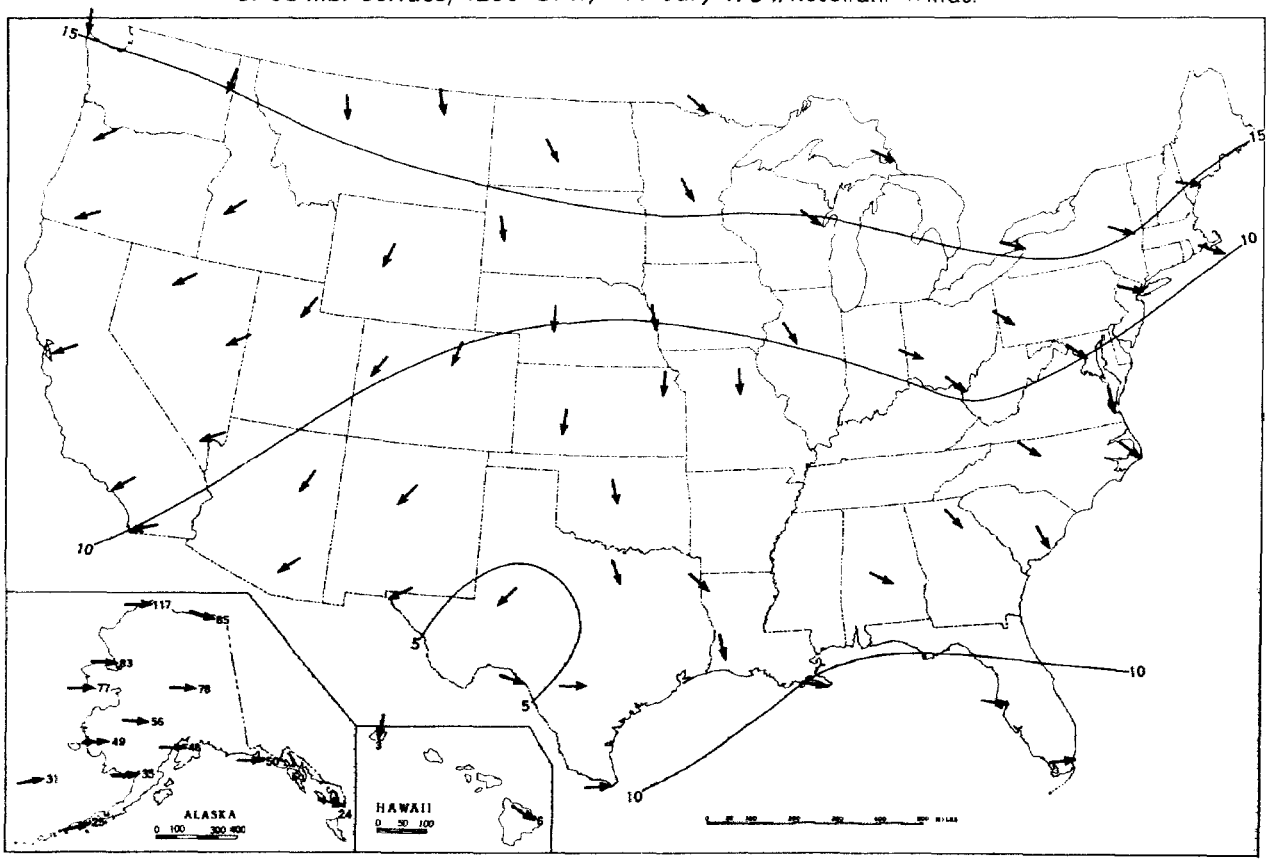


See Chart XI for explanation of map.

Chart XVII. A. 50-mb. Surface, 1200 GMT, February 1964. Resultant Winds.



B. 30-mb. Surface, 1200 GMT, February 1964. Resultant Winds.



Wind speed (isotachs) in knots. Arrows show resultant wind direction. All wind data are based on rawin observations.

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