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Extreme Temperatures In The Upper Air



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INTRODUCTION

Extreme temperature values are a source of constant interest. For builders and designers of airplanes, for those engaged in air transportation, and all others in any way connected with flying interests, such information is a necessity. To meteorologists, physicists, and students of both sciences, the information is a useful tool. The advancement and popularization of aviation leaves the layman with a desire to understand more fully the complexities of the upper air. Inquiries are regularly received by the Weather Bureau from all these sources.

It is realized that true extreme values can only be prepared from data extending over many years and that extreme values are sometimes exceeded even after the compilation of data over a 50-year period. Upper air observations, being more or less in their infancy, do not permit long period compilations. Efforts have been made to present such data for as long a period as possible by bringing them up to date at reasonable intervals.

The first extreme temperature publication prepared by the Weather Bureau was "Minimum Temperatures in the Free Air Over the United States", issued in February 1942. This was followed by "Maximum Temperatures in the Free Air Over the United States", in August 1942. Revisions of those publications were issued in April 1943 and June 1943, respectively.

In the present publication, the two previous publications (copies of which are no longer available) have been combined, several years of data added, and the two extremes for each standard level for each month and the annual extremes for each level shown in tabular form. Additional tables show the absolute maxima and minima for the continental United States and for the entire network, including stations in Alaska, Central America, the West Indies and Honolulu, and the range of temperature at each standard level for the network as well. The temperature values are given in degrees Centigrade, unless otherwise stated, and are considered to be accurate within 2°C. at the extremes involved.

On January 1, 1946, the Weather Bureau adopted the constant pressure system of summarizing upper air data. By this method, data are summarized for standard pressure levels, as differentiated from the previous system whereby summarizations were made for standard heights. The maximum and minimum values shown in this publication include all data through 1945, i.e., all available extreme temperature data for height levels. Since the change of system occurred directly after the closing period of the data herein, this is believed to be the final publication showing extreme values of temperatures for designated altitudes in the upper air.

Discussion of the Data

In this discussion all references to maximum or minimum temperatures refer only to the extremes for stations for which data are shown in this publication, unless otherwise stated.

Extreme values of temperature in the upper air are more liable to erroneous entries than almost any other type of meteorological data. The records are made by instruments which are seldom seen again after the observation is started, thus preventing recalibration or examination of instruments from which questionable data are obtained. As all data obtained since the inauguration of both airplane and radiosonde observations were used, this publication ranges through the developmental stages of the instruments. It is therefore entirely conceivable that certain observations must necessarily have been erroneous by reason of instrumental imperfections. An erroneous temperature record would of course be either too cold or too warm. In either case, any record having a large enough error would be more than likely to produce a fictitious extreme value.

These facts have been recognized by the staff of the Aviation Section, by which this publication was prepared. Close scrutiny was made of the records, and every effort made to uncover suspicious values. Temperatures appearing to be questionable were investigated, compared with previous and subsequent observations at the same station, with data at surrounding stations, and often with the synoptic charts. Temperatures believed erroneous after these various comparisons were deleted from the tabulation.

It will be noticed that a temperature difference of more than 10° sometimes occurs between successive standard levels of maximum temperature. These are not due to superadiabatic lapse rates on any record, as a first glance might indicate, but rather to termination of the sounding containing the maximum value before the subsequent level was reached. An example would be an all time maximum value of -30° at 10 km. The sounding containing that value ended at 10.5 km., and thus does not provide a value for the 11 km. group. Instead, another sounding which had a value of -33° at 10 km. and a value of -42° at 11 km. is introduced. Values at the two successive levels would then be -30° and -42° , and yet neither sounding contained a superadiabatic lapse rate.

The same type of difference is not possible in the minimum temperatures. Here, apparent lapse rates over 10° per km. due to terminated observations do not occur, but rather, an unusually small lapse rate is indicated under similar circumstances. An example would be a sounding having a record minimum temperature of -40° at 8 km., with the observation not reaching 9 km. The sounding to be used in determining the minimum at 9 km. would have to be warmer than -40° at 8 km., since its value there was not the minimum, and at 9 km. would be warmer than -50° , perhaps even -42° or -43° .

Temperature differences of considerably more than 10° between the successive levels of 4 to 5 km., or 5 to 6 km., will be noticed at some stations in both the maximum and minimum values. These differences occur only at stations where both airplane observations (apobs) and radiosonde observations (raobs) were taken, and are due to the fact that data for the first 4 or 5 km. (the altitudes attained by airplane observations) extend over considerably longer periods than the data for levels above those heights. Data through 16 km. are shown for those stations, and subheadings of "1 to 5 km." and "1 to 16 km." are shown under the heading "Period of Record, Upper Air". Stations which participated only in the raob program also show data through 16 km., but do not

have subheadings under "Period of Record, Upper Air". Stations where only apobs were taken do not show data for levels higher than 4 or 5 km.

The large differences between surface data and the values for the first upper air level are due, in most cases, to the much longer period covered by surface observations. Another contributing factor is the fact that surface values in most cases are derived from observations taken by means of maximum and minimum thermometers, and are therefore the absolute extreme values. Upper air values are derived from observations taken once a day, at times of no sunshine.

It is important to note that the extreme values at the highest levels are based on fewer observations than data at lower levels, due, of course, to the termination of a considerable number of observations before reaching 16 km. Such early ending of soundings was especially prevalent during the early days of the war, when synthetic rubber balloons first came into use.

The highest surface temperature (48°C. or 118°F.) listed in the present publication was observed at Phoenix during both June and July. The lowest surface maximum for any month (32°C. or 90°F.) was observed at Brownsville during January, indicating that temperatures of 90°F., or warmer, have occurred in the continental United States during all months of the year.

At the surface and the 1 km. level, maximum temperatures occur at Phoenix during the summer and usually at Brownsville during the winter months. The extreme surface heat at Phoenix is, however, quite shallow. This is demonstrated by the fact that the maximum temperature for the network occurs at Phoenix during six months at the surface, during seven months at 1 km., and only during one month at 2 km. Even in that one case, which occurred in July, the temperature of 33°C. was equaled at Albuquerque.

Above 2 km. and lasting up to 11 km., maximum temperatures usually occur at southern United States or Mexican stations during the summer months and at tropical or maritime stations during the winter months. It is interesting to note the way in which these tropical and maritime stations first appear in the tabulation at the 3 km. level, with the maximum temperatures at Pearl Harbor during January and November. From 4 km. upward, the maximum temperature for the network progressively occurs more frequently during the winter months, while at 10 km. and 11 km. the maximum occurs at San Juan or Swan Island during all months from October or November through April or May.

A definite shift in the geographical location of maximum temperatures takes place between 11 km. and 12 km. At these levels the maximum temperatures for the entire network occur primarily at stations in Alaska and the northern United States, and at extreme northern stations when considering only the continental United States. At 13 km. and above, the maximum occurs almost exclusively at Alaskan stations during all months.

An unusual entry on the absolute maximum temperature tabulation indicates that the absolute maximum temperature of the network, for 3 km. during October, occurred at Billings, Montana. Because of the northern location of this station, a thorough investigation was made of the conditions contributing to

that extreme value. This study revealed that Billings, at the time the extreme value was recorded, was situated on the northern edge of a large high pressure area, the circulation around which brought hot air from the desert regions of southern California and Arizona northward to the Montana stations. This fact, together with synoptic reports from nearby stations, verified the accuracy of the observation in question.

Another surprising entry shows that the absolute maximum temperature of the network (-40°), for 12 km. during September, occurred at Anchorage, Kotzebue, and San Diego. The maximum temperature, in each case, occurred during September 1944. A study was accordingly made of the conditions contributing to this odd combination of stations. The Anchorage sounding, on September 1, 1944, began with low temperatures; in fact the temperatures from 0.5 km. through 3.0 km. were the coldest of the month. The tropopause was at 9 km. and had been at 7.2 km. 12 hours earlier. Although the temperature at the tropopause was -52° , a fairly steep inversion at the base of the stratosphere changed this to -38° at the top of the inversion and to -39.9 at 12 km. At Kotzebue, on September 5, 1944, the pattern was quite similar to that described above. The tropopause was down to 7.3 km. and its temperature was -45° . An inversion at the base of the stratosphere brought the temperature to -38° at 10 km. and -39.8 at 12 km. This sounding was also the coldest of the month at lower levels, namely, between 1.5 and 6 km. The San Diego extreme observation occurred on September 8, 1944, at a time when tropopause heights were around 16 km. The temperature was quite high at and near the surface and the lapse rate averaged a little over 6°C . per km. between 1 and 12 km. It can now be seen that, although the same temperature was observed at these widely scattered stations, the circumstances leading to the similarity were by no means alike. While the 12 km. level at the Alaskan stations was in a stratosphere inversion, the same height above San Diego was in the troposphere and in a region having an average lapse rate.

Minimum surface temperatures for the network occur in Alaska, primarily at Barrow, Fairbanks, Kotzebue, and Northway. The absolute minimum of -54° was observed at Fairbanks during January. Minimum temperatures aloft occur primarily at Alaskan stations for the first 10 km. In a few isolated cases the minimum occurred at northern continental United States stations (Caribou, International Falls, Sault Ste. Marie, etc.) for a single level of an individual month. However, the 11 km. level tabulation contains almost as many northern United States stations as Alaskan stations, and the 12 and 13 km. levels are composed almost entirely of northern United States stations. Quite in contrast, the minimum values at 14, 15 and 16 km. occur almost exclusively at southern United States, Mexican and tropical stations. The coldest observed upper air temperature is -88° at 16 km. at San Juan.

A study of minimum temperatures in the continental United States shows that the lowest temperatures at levels from 1 through 11 km. were almost invariably observed at northern stations. At 12 and 13 km., the minimum occurred at middle latitude stations in many cases, and above 13 km. almost entirely at extreme southern stations. The lowest surface temperature in the continental United States was -51° at Glasgow, Montana, and the coldest aloft was -87° , recorded at 16 km. over Brownsville.

The shift from coldest temperatures at northern stations at low altitudes to coldest temperatures at southern stations at high altitudes (and a similar shift in reverse for maximum temperatures) is of course due to the change in tropopause heights with latitude. The northern stations are cold at and near the surface, but have low tropopauses which end the cooling with height at a relatively low level. The southern stations have warm surface and near-surface temperatures, but their relatively high tropopause permits continued cooling with height to high levels, resulting in extremely cold temperatures aloft. Tropopause altitudes as low as 5 or 6 km. at Barrow in the winter, and as high as 17 or 18 km. at San Juan in the summer, have been observed for individual observations.

An interesting feature of these data is the fact that the coldest temperatures at very high elevations occur at southern stations during the winter months rather than the summer, as contrasted with northern stations where the coldest temperatures at high altitudes occur during the summer.

A table showing the range of temperature at each level, month, and year is given at the end of this publication. The values shown therein are the difference between the highest and lowest temperatures recorded for that level and month, regardless of station. The annual value shown is always higher than any monthly value since it is the difference between the highest and lowest temperatures for that level, regardless of station or month. It can be seen that the range in temperature is greatest at the surface, even though the surface ranges shown are exaggerated in relation to the upper air values, due to the fact that the surface temperatures are based on much longer observational periods and on more observations per day. The temperature range generally decreases from the surface upward to about 12 km., which level in most cases has the lowest range. Above that level, the range increases slightly through 12 to 16 km.

The highest monthly surface range was 89° during March, representing the difference between 39° at Brownsville and -50° at Kotzebue. The annual surface range of 102° was derived from the value of 48° at Phoenix in July and -54° at Fairbanks in January.

History of the Upper Air Network

Upper air observations were first made by means of kites, which attained altitudes usually limited to an average of 3 km. Successful kite observations were greatly dependent on winds and good weather. After many years of this type of observation, a method was developed to attach an aero-meteorograph to an airplane and obtain measurements of pressure, temperature and humidity. The airplane observations were an improvement over the kite observations, since altitudes up to 5 km. could be reached and observations were not hampered by wind conditions. Apobs were, however, still greatly dependent on weather, since they could not be made in periods of storm or low ceilings, except at danger to the pilot. The inauguration of radiosonde observations was a great advancement in upper air measurements of meteorological elements. By this means, observations can be taken in almost any type of weather.

A kite program was first inaugurated in the year 1898, with observations taken during the months of April through November, at 17 stations in the United States. After this series, kite observations were discontinued until 1907, when a single kite station was started at Mt. Weather, Virginia. The peak development of this later series was reached between the years 1921 and 1925, during which time six stations were taking kite observations. Airplane observations were first started by the Army in 1925 with a single station, and by the Weather Bureau in 1931 with 4 stations. The climax of this program was reached in 1937 with a total of 30 stations, 15 of which were operated by the Weather Bureau and 15 by the Army and Navy. Radiosonde observations were inaugurated by the Weather Bureau in 1937 with establishment of one station. During 1945, 82 raob stations were being operated in the continental United States, Alaska, Mexico, Puerto Rico, Swan Island, and by permanent ship stations in the Atlantic Ocean.

It is interesting to note the replacement of the various types of observations by improved types. When the Weather Bureau apob network was started in 1931, the kite network dropped to 2 stations, and by 1933 ceased to exist. When the first raob station was started in 1937, the apob program was at its peak, with a total of 30 stations. The Weather Bureau apob program ended in 1938, and the last of the cooperative stations (a single station) closed in 1943.

Airplane observations were usually taken between 4 and 6 a.m., with some observations taken later in the morning. Raobs were taken between 3 and 4 a.m. prior to 1940, at 1 a.m. during 1940 and 1941, and between 10 and 11 p.m. thereafter. (All times are 75th Meridian.)



Maximum and Minimum Temperatures, (°C.)

ALBANY, N. Y.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	22	-31	19	-30	29	-26	34	-13	36	-2	38	2	40	7	39	2	37	-1	33	-7	24	-24	19	-29	40	-31
1	9	-28	7	-20	18	-17	17	-10	21	-5	24	0	23	9	26	8	23	0	17	-4	15	-11	5	-21	26	-28
2	4	-30	2	-23	10	-23	11	-15	15	-9	18	-4	16	2	18	0	16	-6	11	-13	12	-17	4	-25	18	-30
3	1	-34	-2	-29	3	-28	5	-22	8	-12	13	-12	11	-1	10	-6	11	-9	5	-16	7	-22	0	-28	13	-34
4	-5	-36	-8	-32	-3	-32	1	-28	2	-18	7	-18	7	-7	5	-14	5	-14	1	-23	3	-28	-5	-34	7	-36
5	-11	-38	-12	-38	-8	-35	-7	-36	-3	-27	1	-25	1	-13	1	-20	0	-21	-4	-31	-7	-34	-10	-39	1	-39
6	-19	-44	-19	-44	-14	-42	-14	-43	-10	-34	-6	-32	-4	-20	-4	-26	-6	-29	-11	-40	-14	-41	-16	-45	-4	-45
7	-25	-49	-24	-49	-21	-46	-21	-51	-15	-43	-11	-40	-10	-28	-12	-34	-12	-34	-17	-43	-18	-47	-23	-49	-10	-51
8	-33	-51	-32	-54	-28	-52	-27	-50	-22	-50	-18	-48	-15	-36	-18	-43	-20	-44	-24	-46	-26	-49	-31	-53	-15	-54
9	-41	-58	-40	-60	-36	-55	-34	-54	-30	-55	-25	-49	-24	-43	-25	-47	-27	-53	-30	-51	-34	-56	-38	-56	-24	-60
10	-42	-62	-47	-61	-41	-57	-42	-59	-37	-58	-30	-51	-31	-49	-32	-51	-35	-53	-36	-56	-42	-62	-44	-60	-30	-62
11	-44	-63	-47	-66	-41	-62	-42	-63	-43	-60	-39	-56	-39	-55	-38	-54	-40	-57	-39	-62	-45	-66	-45	-64	-38	-66
12	-42	-64	-47	-67	-44	-66	-43	-66	-45	-63	-46	-62	-45	-60	-43	-58	-46	-62	-44	-68	-43	-66	-48	-68	-42	-68
13	-46	-60	-46	-65	-44	-69	-44	-68	-46	-68	-48	-69	-48	-66	-46	-64	-49	-66	-47	-66	-46	-67	-50	-67	-44	-69
14	-50	-59	-51	-57	-49	-62	-44	-65	-49	-69	-50	-70	-51	-66	-48	-67	-50	-71	-50	-69	-49	-67	-49	-66	-44	-71
15	-52	-59	-52	-58	-52	-62	-48	-65	-52	-64	-52	-69	-51	-69	-51	-67	-50	-76	-52	-71	-50	-65	-52	-65	-48	-76
16	-52	-60	-55	-59	-54	-64	-52	-61	-51	-64	-52	-68	-53	-68	-53	-67	-52	-68	-55	-70	-51	-64	-54	-60	-51	-70

Period of Record: Surface— 72 years.

Elevation: 93 Meters, M. S. L.

Upper Air— Apr. 1943 - Dec. 1945.

Maximum and Minimum Temperatures, (°C.)

ALBUQUERQUE, N. MEX.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	22	-26	26	-23	29	-14	32	-11	36	-4	40	2	39	6	38	8	36	-3	32	-7	28	-15	22	-27	40	-27
1.....	13	-12	14	-7	22	-3	27	-3	26	2	30	11	33	14	28	16	29	4	22	2	16	-4	13	-9	33	-12
3.....	6	-15	8	-15	15	-12	18	-9	18	-3	22	4	23	7	21	9	20	-2	16	-8	9	-10	9	-17	23	-17
4.....	0	-21	0	-23	5	-19	8	-17	9	-12	13	-5	14	0	12	1	11	-6	6	-17	6	-18	5	-20	14	-23
5.....	-6	-27	-6	-30	-5	-28	-1	-25	0	-21	4	-12	4	-6	3	-6	2	-13	-1	-20	-1	-27	0	-29	4	-30
6.....	-12	-36	-12	-38	-12	-36	-10	-32	-5	-29	-2	-20	-3	-14	-3	-12	-2	-20	-7	-27	-7	-35	-7	-34	-2	-38
7.....	-19	-40	-18	-46	-19	-41	-17	-41	-12	-36	-9	-28	-9	-20	-8	-19	-10	-28	-13	-33	-15	-41	-16	-41	-8	-46
8.....	-26	-46	-26	-50	-27	-48	-23	-44	-19	-44	-16	-35	-14	-28	-14	-27	-17	-36	-20	-38	-23	-43	-23	-46	-14	-50
9.....	-34	-53	-34	-55	-34	-53	-32	-50	-27	-47	-24	-42	-21	-36	-21	-35	-24	-40	-24	-44	-30	-47	-30	-52	-21	-55
10.....	-40	-58	-41	-60	-42	-60	-39	-56	-36	-57	-31	-49	-28	-44	-27	-44	-30	-45	-31	-52	-34	-54	-38	-57	-27	-60
11.....	-46	-65	-41	-64	-43	-64	-40	-61	-44	-64	-38	-56	-36	-51	-35	-52	-37	-53	-38	-57	-41	-60	-43	-61	-35	-65
12.....	-45	-68	-44	-69	-44	-66	-44	-64	-46	-63	-44	-60	-44	-58	-42	-61	-44	-57	-45	-62	-45	-65	-44	-66	-42	-69
13.....	-47	-66	-45	-69	-48	-68	-47	-70	-45	-67	-47	-67	-50	-62	-47	-68	-51	-64	-50	-67	-50	-67	-47	-68	-45	-70
14.....	-51	-67	-50	-68	-52	-71	-48	-68	-49	-71	-51	-69	-56	-68	-53	-69	-52	-70	-53	-69	-55	-71	-51	-69	-48	-71
15.....	-54	-69	-54	-71	-53	-69	-51	-69	-53	-70	-55	-72	-54	-74	-58	-76	-55	-72	-56	-70	-57	-72	-50	-73	-50	-76
16.....	-56	-70	-53	-76	-56	-68	-53	-73	-55	-69	-57	-73	-59	-76	-62	-77	-60	-75	-59	-73	-58	-73	-51	-77	-51	-77

Period of Record: Surface— 54 years.

Elevation: 1620 Meters, M. S. L.

Upper Air— July 1939 - July 1940
Mar. 1941 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

ANCHORAGE, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	13	-36	14	-35	13	-28	17	-29	22	-17	29	-2	27	1	28	-1	23	-7	17	-21	17	-28	12	-38	29	-38
1.....	6	-26	7	-24	6	-30	8	-24	16	-14	18	0	16	4	16	2	14	-3	9	-13	4	-22	5	-21	18	-30
2.....	2	-29	4	-27	2	-35	0	-22	11	-21	10	-6	10	-3	11	-3	9	-12	0	-17	0	-25	-1	-25	11	-35
3.....	-2	-34	-1	-29	-3	-36	-7	-27	5	-28	3	-12	5	-8	7	-10	8	-19	-4	-24	-5	-28	-4	-30	8	-36
4.....	-10	-39	-7	-33	-10	-42	-13	-31	1	-37	-2	-18	1	-15	1	-16	4	-22	-9	-32	-11	-34	-9	-36	4	-42
5.....	-16	-41	-14	-39	-16	-44	-17	-38	-6	-38	-7	-25	-5	-22	-5	-23	-2	-29	-12	-37	-15	-41	-15	-43	-2	-44
6.....	-23	-50	-20	-44	-22	-53	-24	-45	-13	-43	-12	-34	-12	-30	-10	-32	-8	-37	-17	-44	-23	-47	-22	-48	-8	-53
7.....	-30	-56	-27	-51	-28	-58	-31	-51	-21	-46	-20	-42	-18	-38	-17	-40	-14	-44	-23	-50	-28	-54	-30	-55	-14	-58
8.....	-37	-60	-35	-56	-35	-58	-40	-54	-29	-52	-28	-46	-25	-43	-24	-47	-20	-50	-29	-56	-36	-60	-38	-60	-20	-60
9.....	-43	-62	-42	-63	-38	-62	-44	-60	-38	-56	-35	-54	-31	-50	-32	-51	-29	-56	-37	-60	-44	-62	-44	-64	-29	-64
10.....	-44	-68	-40	-64	-43	-64	-42	-63	-38	-60	-42	-60	-38	-56	-39	-56	-37	-58	-42	-65	-44	-64	-42	-65	-37	-68
11.....	-43	-68	-39	-69	-40	-70	-42	-64	-38	-61	-40	-59	-38	-59	-41	-60	-41	-59	-42	-61	-44	-66	-40	-66	-38	-70
12.....	-42	-68	-40	-66	-40	-68	-42	-61	-42	-64	-40	-60	-39	-63	-41	-63	-40	-63	-44	-69	-44	-67	-42	-70	-39	-70
13.....	-41	-65	-42	-61	-40	-64	-42	-61	-40	-67	-40	-59	-40	-58	-41	-66	-44	-65	-44	-61	-43	-63	-43	-68	-40	-68
14.....	-42	-62	-43	-59	-40	-63	-42	-57	-42	-63	-41	-53	-41	-58	-41	-58	-44	-61	-43	-61	-43	-60	-42	-61	-40	-63
15.....	-43	-62	-43	-58	-40	-63	-42	-56	-43	-60	-41	-53	-42	-56	-41	-57	-45	-63	-43	-61	-43	-57	-43	-60	-40	-63
16.....	-43	-63	-44	-58	-41	-63	-43	-56	-43	-58	-43	-52	-42	-55	-42	-56	-44	-64	-44	-61	-44	-56	-43	-60	-41	-64

Period of Record: Surface— 30 years.

Elevation: 42 Meters, M. S. L.

Upper Air— Oct. 1940 - Dec. 1945.

Maximum and Minimum Temperatures, (°C.)

APALACHICOLA, FLA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	27	-8	27	-7	31	-3	31	1	36	7	40	16	39	19	39	18	38	11	36	2	31	-2	28	-5	40	-8
1.....	18	1	19	-2	20	-1	24	5	24	10	26	18	26	18	24	18	25	16	22	4	18	2	18	-4	26	-4
2.....	15	-1	14	-4	19	-1	18	0	18	1	22	12	20	12	18	13	19	9	20	-2	17	-2	16	-6	22	-6
3.....	10	-4	10	-7	13	-4	14	-3	13	-4	14	6	12	6	13	7	16	6	12	-2	14	-6	12	-10	16	-10
4.....	4	-12	5	-10	5	-9	7	-8	7	-6	10	-2	7	0	8	1	10	1	7	-8	8	-11	6	-16	10	-16
5.....	-3	-20	-2	-16	1	-14	0	-15	1	-11	4	-6	2	-4	4	-4	3	-6	3	-14	1	-15	1	-22	4	-22
6.....	-10	-26	-8	-21	-7	-20	-8	-23	-4	-18	-3	-12	-3	-10	-3	-10	-2	-11	-4	-20	-7	-20	-5	-30	-2	-30
7.....	-15	-32	-16	-29	-16	-28	-14	-31	-12	-25	-10	-19	-10	-17	-9	-16	-8	-18	-10	-28	-13	-28	-12	-35	-8	-35
8.....	-21	-36	-23	-36	-22	-36	-21	-36	-19	-34	-17	-25	-16	-25	-16	-24	-15	-25	-17	-32	-20	-37	-21	-38	-15	-38
9.....	-29	-43	-30	-44	-31	-43	-29	-43	-26	-42	-23	-33	-23	-31	-22	-32	-22	-32	-24	-40	-29	-44	-27	-43	-22	-44
10.....	-37	-51	-37	-51	-38	-49	-37	-51	-32	-49	-30	-41	-30	-39	-29	-41	-30	-40	-32	-47	-36	-51	-34	-52	-29	-52
11.....	-45	-58	-43	-55	-45	-57	-39	-56	-40	-56	-38	-49	-37	-48	-36	-46	-38	-48	-39	-54	-43	-58	-42	-58	-36	-58
12.....	-48	-64	-47	-60	-48	-61	-44	-63	-46	-61	-45	-57	-44	-58	-44	-54	-45	-57	-48	-59	-48	-62	-48	-66	-44	-66
13.....	-50	-67	-50	-64	-53	-65	-51	-66	-54	-65	-53	-64	-52	-65	-50	-64	-50	-66	-54	-65	-52	-66	-52	-75	-50	-75
14.....	-56	-71	-54	-66	-58	-66	-52	-70	-57	-68	-59	-68	-58	-70	-58	-72	-55	-69	-58	-72	-57	-75	-56	-73	-52	-75
15.....	-60	-71	-58	-68	-61	-70	-55	-70	-60	-70	-63	-73	-63	-75	-64	-73	-60	-74	-64	-74	-59	-81	-62	-74	-55	-81
16.....	-65	-74	-61	-72	-63	-75	-58	-74	-62	-72	-64	-74	-64	-72	-67	-75	-63	-76	-67	-77	-62	-83	-67	-79	-58	-83

Period of Record: Surface— 42 years

Elevation: 5 Meters, M. S. L.

Upper Air— Oct. 1942-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

ATLANTA, GA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	24	-19	26	-22	31	-13	34	-4	36	3	39	4	39	14	38	13	39	6	34	-2	28	-10	24	-17	39	-22
1.....	16	-14	18	-18	20	-13	22	-6	28	2	30	14	30	15	28	15	26	10	24	0	19	-8	17	-13	30	-18
2.....	13	-16	12	-11	13	-10	15	-10	21	-3	21	4	21	10	21	9	19	6	18	-3	14	-10	13	-13	21	-16
3.....	8	-23	7	-14	10	-15	12	-17	16	-8	14	0	17	3	16	5	13	4	13	-6	9	-18	10	-19	17	-23
4.....	3	-27	1	-21	4	-22	5	-17	9	-13	8	-6	9	-2	9	-2	8	-4	8	-13	4	-16	6	-20	9	-27
5.....	-4	-33	-4	-27	-3	-29	-1	-19	3	-20	2	-15	4	-7	3	-8	3	-11	2	-21	-2	-22	-1	-25	4	-33
6.....	-11	-35	-10	-33	-9	-35	-7	-27	-3	-27	-5	-15	-1	-15	-1	-15	-2	-15	-4	-29	-9	-29	-8	-32	-1	-35
7.....	-18	-40	-16	-38	-17	-42	-14	-35	-8	-34	-10	-22	-8	-22	-9	-22	-10	-23	-10	-34	-14	-36	-15	-40	-8	-42
8.....	-25	-48	-23	-44	-25	-47	-21	-44	-16	-42	-16	-29	-15	-28	-15	-29	-16	-30	-17	-39	-22	-42	-22	-44	-15	-48
9.....	-32	-53	-32	-50	-32	-52	-28	-51	-23	-50	-24	-37	-22	-35	-21	-37	-23	-37	-24	-43	-29	-46	-29	-52	-21	-53
10.....	-36	-58	-36	-57	-39	-56	-35	-57	-31	-51	-30	-45	-29	-42	-28	-45	-28	-44	-31	-48	-37	-54	-34	-57	-28	-58
11.....	-44	-62	-42	-62	-42	-63	-42	-59	-39	-58	-37	-53	-36	-49	-35	-52	-34	-52	-39	-55	-40	-60	-38	-64	-34	-64
12.....	-47	-67	-43	-66	-43	-67	-49	-64	-47	-64	-45	-59	-44	-57	-42	-59	-42	-59	-46	-62	-44	-65	-44	-67	-42	-67
13.....	-49	-69	-45	-71	-45	-68	-49	-68	-50	-66	-51	-67	-52	-66	-50	-64	-49	-66	-50	-65	-48	-72	-48	-69	-45	-72
14.....	-52	-68	-51	-68	-49	-69	-52	-70	-52	-70	-57	-70	-58	-71	-55	-69	-55	-69	-54	-68	-52	-74	-50	-71	-49	-74
15.....	-54	-71	-55	-67	-53	-69	-56	-69	-53	-72	-58	-74	-61	-73	-58	-74	-59	-74	-58	-75	-56	-74	-54	-72	-53	-75
16.....	-56	-71	-58	-69	-57	-72	-55	-71	-54	-70	-60	-77	-61	-75	-61	-76	-62	-76	-58	-80	-57	-74	-58	-74	-54	-80

Period of Record: Surface- 66 years

Elevation: 300 Meters, M. S. L.

Upper Air- 1-5 km. July 1932 - June 1933

1-16 km. July 1939 - July 1940

Feb. 1941 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BARROW, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	1	-47	2	-49	1	-47	6	-41	7	-28	19	-13	26	-6	23	-7	15	-16	6	-32	4	-42	1	-48	26	-49
1.....	7	-35	-2	-30	-6	-36	0	-35	8	-18	13	-12	15	-6	12	-9	7	-11	2	-23	-2	-30	4	-37	15	-37
2.....	3	-37	-7	-34	-8	-38	-5	-34	4	-24	8	-15	10	-10	7	-14	6	-16	-2	-25	-4	-34	-5	-41	10	-41
3.....	0	-37	-10	-39	-14	-43	-10	-37	-1	-28	2	-18	3	-14	2	-19	0	-22	-5	-30	-10	-40	-9	-44	3	-44
4.....	-7	-43	-17	-44	-20	-44	-16	-41	-7	-34	-4	-24	-2	-19	-3	-27	-6	-27	-10	-35	-16	-43	-16	-44	-2	-44
5.....	-14	-48	-22	-49	-26	-48	-23	-47	-11	-36	-10	-31	-8	-26	-10	-35	-13	-33	-17	-42	-22	-47	-21	-50	-8	-50
6.....	-22	-54	-29	-54	-31	-54	-28	-51	-19	-43	-14	-38	-16	-32	-16	-39	-20	-40	-26	-48	-27	-52	-26	-53	-14	-54
7.....	-32	-57	-37	-57	-39	-59	-34	-53	-28	-50	-23	-44	-21	-40	-21	-43	-26	-47	-32	-54	-33	-58	-33	-55	-21	-59
8.....	-40	-60	-45	-61	-42	-63	-42	-56	-35	-54	-30	-50	-27	-45	-27	-49	-32	-54	-40	-59	-42	-59	-40	-60	-27	-63
9.....	-47	-66	-44	-63	-40	-64	-44	-60	-37	-58	-37	-53	-34	-52	-35	-52	-38	-58	-46	-59	-45	-64	-43	-64	-34	-66
10.....	-46	-71	-41	-64	-38	-62	-42	-62	-37	-60	-37	-60	-39	-56	-37	-57	-41	-61	-44	-62	-45	-67	-41	-68	-37	-71
11.....	-46	-74	-41	-61	-39	-59	-41	-62	-39	-63	-37	-64	-38	-59	-37	-58	-41	-64	-44	-64	-46	-65	-42	-67	-37	-74
12.....	-46	-68	-40	-59	-39	-57	-41	-57	-40	-62	-39	-60	-39	-60	-38	-62	-41	-64	-43	-60	-46	-65	-43	-63	-38	-68
13.....	-44	-66	-41	-59	-39	-56	-41	-54	-39	-58	-40	-56	-38	-52	-38	-58	-41	-60	-42	-55	-46	-61	-44	-62	-38	-66
14.....	-45	-66	-42	-57	-40	-54	-40	-54	-42	-56	-41	-52	-39	-51	-38	-54	-42	-58	-41	-56	-46	-58	-46	-63	-38	-66
15.....	-45	-65	-43	-56	-40	-54	-41	-55	-42	-55	-41	-50	-39	-48	-39	-52	-43	-59	-45	-55	-47	-56	-47	-64	-39	-65
16.....	-44	-67	-44	-49	-39	-55	-42	-55	-41	-55	-40	-50	-40	-48	-39	-51	-43	-60	-46	-55	-47	-56	-49	-61	-39	-67

Period of Record: Surface- 33 years

Elevation: 8 Meters, M. S. L.

Upper Air- Sept. 1940 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BETHEL, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	9	-43	11	-40	12	-37	15	-32	24	-17	32	-2	26	-1	29	-1	24	-8	17	-21	16	-33	9	-40	32	-43
1.....	5	-34	4	-29	5	-34	2	-22	13	-20	19	-3	15	-2	15	-3	13	-7	7	-15	4	-30	6	-27	19	-34
2.....	2	-35	2	-26	1	-32	-2	-23	8	-24	9	-6	10	-3	12	-11	9	-15	2	-19	1	-30	0	-27	12	-35
3.....	-4	-39	-2	-29	-5	-37	-7	-27	3	-29	6	-11	5	-10	7	-17	4	-23	-1	-26	-2	-33	-5	-31	7	-39
4.....	-8	-44	-9	-36	-9	-42	-13	-33	-1	-32	0	-19	0	-16	3	-22	1	-30	-2	-33	-7	-39	-11	-37	3	-44
5.....	-13	-46	-14	-41	-15	-46	-18	-39	-8	-39	-6	-24	-6	-24	-3	-28	-5	-31	-6	-39	-14	-44	-17	-42	-3	-46
6.....	-19	-51	-21	-47	-22	-52	-25	-47	-15	-44	-13	-31	-11	-32	-9	-35	-10	-40	-12	-42	-20	-48	-23	-50	-9	-52
7.....	-25	-55	-28	-54	-29	-59	-32	-52	-22	-50	-20	-39	-18	-40	-16	-39	-18	-48	-19	-49	-27	-53	-30	-53	-16	-59
8.....	-34	-59	-36	-61	-35	-58	-40	-59	-27	-53	-26	-46	-23	-42	-22	-46	-24	-51	-26	-55	-34	-59	-36	-59	-22	-61
9.....	-42	-62	-40	-60	-41	-59	-44	-66	-34	-56	-33	-52	-30	-48	-29	-52	-31	-56	-34	-60	-42	-62	-42	-63	-29	-66
10.....	-44	-65	-38	-62	-43	-63	-42	-62	-36	-60	-38	-60	-37	-54	-37	-54	-38	-59	-41	-60	-41	-63	-41	-66	-36	-66
11.....	-40	-67	-39	-65	-41	-65	-42	-63	-38	-62	-38	-60	-38	-58	-38	-58	-40	-59	-41	-60	-42	-65	-40	-62	-38	-67
12.....	-41	-66	-41	-67	-40	-62	-42	-58	-38	-65	-38	-60	-39	-60	-39	-60	-41	-61	-43	-61	-43	-65	-41	-60	-38	-67
13.....	-41	-60	-41	-60	-39	-59	-42	-54	-40	-63	-39	-60	-40	-61	-40	-63	-41	-63	-44	-57	-43	-63	-41	-62	-39	-63
14.....	-41	-60	-43	-54	-38	-57	-42	-54	-41	-60	-40	-53	-41	-58	-41	-58	-42	-62	-44	-60	-41	-60	-40	-62	-38	-62
15.....	-41	-61	-40	-54	-39	-59	-42	-54	-42	-58	-40	-52	-40	-54	-42	-58	-43	-60	-45	-58	-39	-58	-40	-60	-39	-61
16.....	-40	-64	-43	-53	-41	-55	-42	-54	-43	-55	-41	-51	-42	-53	-42	-59	-43	-60	-44	-55	-42	-57	-41	-58	-40	-64

Period of Record: Surface— 22 years

Elevation: 8 Meters, M. S. L.

Upper Air— Nov. 1940 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BIG SPRING, TEX.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	31	-20	34	-16	35	-16	39	-5	43	-1	47	1	44	9	43	8	42	3	38	-3	32	-14	28	-19	47	-20
1.....	19	-8	22	-5	23	-3	24	5	31	8	33	15	35	20	35	19	30	5	24	8	25	-3	19	-4	35	-8
2.....	13	-9	15	-6	16	-4	19	-4	24	5	25	13	26	15	27	12	23	9	23	2	20	-3	14	-8	27	-9
3.....	7	-11	8	-11	8	-9	11	-6	18	-4	19	6	18	8	19	6	15	5	15	0	14	-10	8	-13	19	-13
4.....	0	-16	3	-14	0	-16	2	-15	10	-8	11	-1	9	1	11	1	9	0	6	-6	6	-16	3	-19	11	-19
5.....	-7	-20	-2	-22	-7	-23	-6	-22	1	-13	4	-8	2	-5	3	-6	4	-6	-1	-13	-2	-23	-3	-26	4	-26
6.....	-15	-28	-9	-29	-13	-32	-11	-26	-7	-21	-3	-15	-3	-10	-3	-11	-3	-14	-7	-20	-9	-26	-10	-28	-3	-32
7.....	-22	-36	-17	-37	-19	-36	-20	-35	-15	-30	-11	-22	-10	-16	-9	-18	-11	-18	-13	-28	-16	-32	-18	-35	-9	-37
8.....	-30	-43	-26	-43	-27	-42	-27	-43	-22	-37	-18	-31	-17	-23	-15	-24	-18	-26	-19	-36	-24	-41	-24	-41	-15	-43
9.....	-37	-50	-32	-46	-33	-50	-35	-48	-29	-43	-24	-37	-24	-32	-23	-31	-25	-34	-24	-44	-32	-44	-30	-46	-23	-50
10.....	-44	-56	-40	-52	-40	-54	-42	-53	-37	-48	-32	-43	-31	-39	-30	-37	-32	-40	-32	-50	-39	-52	-38	-53	-30	-56
11.....	-51	-60	-46	-55	-42	-60	-46	-58	-44	-56	-39	-52	-39	-49	-38	-46	-38	-48	-40	-56	-47	-57	-44	-59	-38	-60
12.....	-52	-64	-49	-63	-46	-64	-51	-66	-50	-64	-46	-58	-46	-57	-45	-54	-44	-56	-47	-63	-53	-64	-47	-66	-44	-66
13.....	-54	-66	-50	-68	-49	-64	-52	-69	-53	-69	-51	-66	-54	-66	-52	-62	-50	-62	-53	-71	-57	-68	-49	-69	-49	-71
14.....	-55	-65	-56	-65	-49	-64	-55	-68	-56	-68	-56	-70	-60	-71	-59	-68	-55	-68	-57	-68	-60	-69	-55	-71	-49	-71
15.....	-58	-65	-59	-68	-52	-65	-59	-68	-60	-71	-61	-75	-62	-76	-65	-72	-65	-74	-65	-72	-62	-70	-60	-66	-52	-76
16.....	-61	-67	-62	-68	-54	-70	-60	-68	-62	-71	-63	-72	-68	-77	-70	-75	-66	-74	-69	-74	-64	-69	-62	-69	-54	-77

Period of Record: Surface- 47 years

Elevation: 774 Meters, M. S. L.

Upper Air- Oct. 1943-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BILLINGS, MONT.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
Surface...	24	-39	24	-45	28	-37	33	-21	37	-9	42	-3	44	3	42	-2	38	-8	35	-24	26	-29	24	-39	44	-45	
1.....																											
2.....	13	-37	13	-37	12	-22	18	-23	22	-4	26	0	28	10	26	2	22	-6	22	-20	15	-18	15	-23	28	-37	
3.....	6	-32	9	-29	6	-22	10	-25	13	-11	19	-6	22	2	19	-3	15	-11	18	-17	10	-22	8	-22	22	-32	
4.....	-1	-33	2	-34	0	-30	0	-29	4	-18	11	-14	12	-4	11	-9	5	-19	10	-25	4	-27	1	-29	12	-34	
5.....	-8	-37	-7	-41	-8	-37	-7	-36	-3	-27	4	-21	4	-10	2	-15	-1	-27	2	-32	-3	-33	-6	-36	4	-41	
6.....																											
7.....																											
8.....																											
9.....																											
10.....																											
11.....																											
12.....																											
13.....																											
14.....																											
15.....																											
16.....																											

Period of Record: Surface— 42 years

Elevation: 1089 Meters, M. S. L.

Upper Air— July 1934 - July 1940

Maximum and Minimum Temperatures, (°C.)

BISMARCK, N. DAK.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	16	-43	18	-43	27	-38	32	-19	39	-11	42	-1	46	0	43	0	41	-12	33	-23	23	-33	19	-41	46	-43
1.....	11	-35	7	-27	18	-24	23	-14	26	-3	29	-3	32	6	36	9	30	-3	25	-9	17	-22	21	-26	36	-35
2.....	10	-32	5	-35	13	-29	17	-22	19	-11	25	-4	29	0	27	2	23	-10	18	-17	11	-21	14	-26	29	-35
3.....	3	-38	2	-30	6	-33	8	-22	12	-17	17	-7	21	-4	21	-6	17	-19	11	-20	5	-25	7	-28	21	-38
4.....	-3	-44	-4	-35	-2	-39	1	-27	5	-21	8	-13	11	-9	11	-9	8	-21	4	-27	-3	-30	0	-35	11	-44
5.....	-9	-48	-11	-41	-10	-45	-6	-34	-1	-29	2	-20	3	-16	3	-18	0	-26	-2	-34	-8	-37	-7	-42	3	-48
6.....	-16	-52	-19	-46	-16	-48	-14	-41	-10	-34	-6	-27	-5	-23	-4	-24	-5	-33	-8	-41	-16	-43	-14	-48	-4	-52
7.....	-23	-54	-26	-52	-24	-51	-22	-49	-18	-42	-12	-36	-10	-28	-10	-32	-14	-38	-15	-46	-23	-50	-22	-50	-10	-54
8.....	-30	-57	-34	-57	-32	-56	-30	-56	-24	-49	-20	-44	-17	-35	-17	-40	-20	-42	-23	-51	-29	-55	-31	-55	-17	-57
9.....	-38	-61	-42	-62	-40	-59	-37	-58	-31	-56	-27	-49	-24	-43	-22	-46	-25	-50	-31	-53	-36	-58	-38	-61	-22	-62
10.....	-42	-70	-42	-65	-46	-64	-39	-63	-38	-60	-34	-54	-32	-50	-27	-49	-34	-56	-36	-58	-44	-63	-44	-63	-27	-70
11.....	-43	-73	-44	-69	-45	-67	-42	-66	-43	-62	-41	-60	-40	-56	-33	-56	-40	-61	-40	-62	-45	-66	-45	-65	-33	-73
12.....	-44	-76	-44	-65	-45	-71	-42	-67	-42	-65	-44	-62	-44	-62	-40	-60	-43	-64	-43	-69	-46	-71	-45	-69	-40	-76
13.....	-44	-72	-43	-60	-45	-70	-44	-68	-44	-67	-44	-65	-47	-65	-47	-63	-46	-64	-44	-69	-47	-72	-47	-70	-43	-72
14.....	-46	-67	-46	-59	-45	-63	-46	-63	-47	-65	-48	-68	-51	-65	-49	-67	-47	-67	-45	-72	-48	-68	-46	-70	-45	-72
15.....	-50	-67	-47	-62	-46	-64	-48	-62	-48	-64	-49	-66	-52	-67	-50	-68	-48	-67	-46	-68	-49	-71	-50	-64	-46	-71
16.....	-53	-67	-48	-63	-48	-63	-50	-62	-50	-65	-51	-64	-53	-67	-52	-67	-50	-70	-52	-66	-50	-68	-50	-64	-48	-70

Period of Record: Surface-71 years

Elevation: 505 Meters, M. S. L.

Upper Air- July 1939 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BOISE, IDAHO

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	17	-33	21	-25	28	-21	33	-12	38	-4	43	-1	44	4	44	0	39	-5	35	-10	29	-23	21	-28	44	-33
1.....	10	-18	10	-8	19	-5	23	0	27	6	35	6	33	15	35	11	31	7	29	0	15	-2	15	-10	35	-18
2.....	7	-21	9	-13	12	-12	17	-6	20	-3	29	-2	29	8	28	1	26	1	21	-4	12	-10	11	-13	29	-21
3.....	4	-26	5	-18	6	-20	9	-14	12	-10	19	-8	21	1	19	-7	17	-6	12	-12	6	-16	6	-18	21	-26
4.....	1	-31	-1	-25	-4	-25	0	-23	4	-18	11	-14	11	-4	10	-13	8	-13	6	-17	0	-23	-2	-27	11	-31
5.....	-6	-36	-8	-34	-10	-33	-8	-32	-4	-26	2	-21	3	-12	2	-18	1	-20	0	-25	-7	-32	-8	-34	3	-36
6.....	-14	-41	-14	-43	-16	-42	-15	-41	-10	-33	-6	-28	-4	-19	-4	-27	-6	-28	-6	-31	-13	-40	-15	-40	-4	-43
7.....	-21	-47	-22	-49	-23	-47	-22	-49	-15	-42	-11	-35	-12	-27	-12	-35	-13	-36	-14	-39	-19	-45	-21	-47	-11	-49
8.....	-28	-52	-30	-53	-30	-53	-29	-51	-21	-46	-20	-41	-18	-35	-18	-37	-21	-44	-22	-47	-27	-51	-29	-52	-18	-53
9.....	-36	-58	-37	-57	-38	-58	-36	-55	-29	-55	-28	-49	-26	-41	-26	-42	-29	-51	-32	-54	-35	-55	-36	-60	-26	-60
10.....	-44	-65	-43	-65	-43	-65	-43	-58	-38	-58	-36	-53	-33	-47	-32	-49	-34	-50	-40	-58	-41	-59	-44	-62	-32	-65
11.....	-43	-69	-48	-66	-44	-66	-44	-64	-44	-61	-43	-59	-40	-54	-39	-54	-42	-56	-46	-62	-42	-65	-46	-66	-39	-69
12.....	-42	-70	-47	-66	-46	-70	-44	-68	-43	-67	-44	-63	-44	-61	-43	-61	-43	-63	-47	-66	-48	-70	-47	-70	-42	-70
13.....	-43	-69	-47	-68	-47	-70	-45	-70	-44	-70	-44	-66	-48	-65	-46	-65	-45	-65	-47	-72	-49	-70	-48	-68	-43	-72
14.....	-49	-65	-47	-64	-50	-68	-48	-68	-46	-71	-45	-69	-51	-63	-48	-67	-49	-67	-50	-70	-49	-70	-49	-66	-45	-71
15.....	-51	-64	-50	-64	-48	-62	-49	-64	-48	-67	-46	-65	-52	-67	-51	-68	-51	-71	-52	-70	-48	-68	-51	-68	-46	-71
16.....	-53	-67	-52	-61	-51	-64	-52	-65	-49	-64	-47	-66	-53	-67	-52	-66	-53	-76	-54	-71	-49	-73	-52	-69	-47	-76

Period of Record: Surface— 82 years

Elevation: 868 Meters, M. S. L.

Upper Air— Sept. 1939 - July 1940
Apr. 1941 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BOSTON, MASS.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	21	-25	20	-28	28	-22	32	-12	36	-1	38	6	40	10	37	8	39	1	32	-4	26	-19	21	-27	40	-28
1.....	15	-21	8	-27	16	-17	17	-9	21	-5	22	6	26	11	26	9	24	0	20	-7	17	-18	13	-21	26	-27
2.....	9	-30	5	-29	9	-21	13	-16	14	-9	16	-1	22	5	18	2	17	-3	15	-10	12	-25	10	-21	22	-30
3.....	5	-36	-2	-34	2	-27	4	-20	8	-13	11	-8	14	1	12	0	12	-8	11	-16	7	-32	4	-24	14	-36
4.....	-3	-43	-5	-37	-1	-32	-2	-25	3	-18	7	-16	7	-3	6	-6	6	-16	2	-21	2	-38	-3	-29	7	-43
5.....																										
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 62 years

Elevation: 24 Meters, M. S. L.

Upper Air— Oct. 1932–June 1938
(record not continuous)

Maximum and Minimum Temperatures, (°C.)

BROWNSVILLE, TEX.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	32	-8	34	-11	39	-1	38	4	39	5	39	13	39	14	40	17	39	11	37	3	37	-3	34	-8	40	-11
1.....	25	-5	26	2	26	1	27	7	27	9	30	14	26	19	26	17	25	12	25	12	26	2	24	2	30	-5
2.....	18	-2	23	-1	25	1	23	4	23	8	25	9	20	15	22	11	19	6	21	7	22	-1	19	-2	25	-2
3.....	10	-6	14	-6	18	-4	16	1	18	2	17	2	14	8	15	7	15	5	15	2	14	0	12	-5	18	-6
4.....	4	-12	7	-12	10	-10	10	-5	11	-3	11	-2	9	1	9	1	9	1	9	-3	7	-6	6	-8	11	-12
5.....	-1	-19	2	-20	1	-16	3	-12	4	-10	4	-7	5	-3	4	-5	3	-4	4	-9	1	-12	0	-17	5	-20
6.....	-8	-26	-7	-26	-6	-22	-4	-19	-4	-16	-3	-12	-3	-11	-2	-10	-2	-10	-3	-15	-5	-19	-6	-24	-2	-26
7.....	-15	-31	-11	-33	-12	-28	-14	-25	-10	-24	-9	-19	-9	-16	-9	-17	-8	-18	-8	-22	-12	-27	-12	-28	-8	-33
8.....	-21	-36	-19	-42	-19	-36	-21	-32	-17	-31	-16	-26	-15	-24	-15	-25	-15	-25	-15	-30	-19	-35	-20	-34	-15	-42
9.....	-28	-44	-28	-47	-27	-44	-26	-41	-24	-39	-23	-34	-22	-31	-22	-33	-22	-32	-22	-38	-26	-44	-27	-42	-22	-47
10.....	-37	-53	-34	-50	-35	-50	-34	-48	-32	-46	-30	-42	-30	-39	-30	-42	-29	-40	-29	-46	-33	-49	-34	-50	-29	-53
11.....	-44	-55	-41	-54	-42	-57	-41	-56	-39	-54	-36	-50	-37	-48	-38	-48	-36	-48	-35	-55	-40	-53	-39	-55	-35	-57
12.....	-48	-62	-46	-64	-45	-66	-48	-63	-46	-64	-42	-60	-44	-57	-45	-56	-42	-55	-40	-62	-45	-60	-45	-63	-40	-66
13.....	-51	-72	-50	-71	-50	-68	-53	-67	-52	-74	-48	-68	-51	-66	-51	-64	-47	-63	-46	-68	-50	-69	-50	-69	-46	-74
14.....	-56	-80	-55	-75	-56	-76	-59	-70	-56	-81	-54	-74	-58	-71	-58	-71	-54	-71	-52	-73	-58	-78	-56	-73	-52	-81
15.....	-59	-82	-60	-78	-60	-76	-61	-76	-60	-75	-60	-76	-62	-78	-62	-80	-58	-80	-57	-79	-63	-79	-62	-76	-57	-82
16.....	-63	-87	-62	-79	-65	-81	-63	-78	-64	-79	-68	-80	-65	-79	-62	-83	-65	-82	-60	-83	-67	-82	-66	-81	-60	-87

Period of Record: Surface— 68 years

Elevation:

6 Meters, M. S. L.

Upper Air— Aug. 1940 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

BUFFALO, N. Y.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	21	-26	20	-29	27	-20	30	-15	34	-4	36	2	36	6	36	7	35	2	33	-4	23	-17	21	-23	36	-29
1.....	13	-25	10	-31	18	-23	20	-12	23	-2	27	2	26	4	26	7	25	0	20	-6	18	-11	16	-23	27	-31
2.....	8	-30	6	-33	13	-27	13	-20	15	-8	18	-4	20	0	17	-2	18	-8	13	-14	14	-20	11	-27	20	-33
3.....	4	-33	1	-37	5	-34	6	-26	12	-16	14	-10	13	-7	14	-8	12	-14	9	-19	6	-27	5	-29	14	-37
4.....	-4	-34	-5	-37	-3	-38	-1	-32	4	-21	7	-16	8	-12	9	-11	8	-13	7	-24	3	-31	0	-35	9	-38
5.....	-12	-42	-12	-40	-10	-43	-5	-38	-4	-27	1	-21	2	-19	4	-17	2	-20	0	-31	-4	-36	-5	-38	4	-43
6.....	-16	-48	-17	-44	-16	-48	-11	-44	-8	-34	-4	-28	-4	-28	-3	-25	-5	-27	-6	-38	-12	-41	-10	-45	-3	-48
7.....	-24	-52	-24	-51	-23	-52	-19	-49	-15	-43	-10	-36	-10	-36	-10	-34	-11	-36	-13	-45	-19	-46	-17	-52	-10	-52
8.....	-31	-55	-32	-55	-30	-54	-26	-52	-22	-51	-18	-42	-16	-43	-18	-41	-18	-45	-20	-48	-26	-48	-24	-54	-16	-55
9.....	-39	-58	-39	-59	-37	-59	-34	-55	-29	-55	-23	-49	-23	-48	-25	-46	-25	-52	-27	-51	-35	-56	-32	-63	-23	-63
10.....	-42	-64	-40	-63	-42	-61	-42	-60	-34	-60	-31	-55	-30	-50	-30	-51	-32	-55	-34	-55	-41	-59	-39	-63	-30	-64
11.....	-42	-71	-40	-68	-42	-67	-43	-67	-44	-61	-38	-57	-38	-56	-35	-54	-38	-60	-36	-62	-42	-63	-43	-65	-35	-71
12.....	-44	-67	-39	-63	-43	-67	-42	-71	-45	-68	-44	-63	-45	-60	-40	-60	-46	-65	-42	-67	-44	-69	-45	-68	-39	-71
13.....	-44	-67	-41	-61	-44	-69	-43	-72	-46	-69	-46	-66	-47	-65	-41	-64	-48	-65	-47	-66	-46	-70	-46	-69	-41	-72
14.....	-46	-64	-43	-58	-46	-66	-44	-72	-48	-75	-49	-70	-50	-68	-51	-67	-49	-69	-50	-68	-47	-66	-48	-68	-43	-75
15.....	-49	-62	-47	-60	-48	-63	-45	-70	-49	-68	-50	-71	-52	-72	-52	-67	-50	-70	-51	-71	-48	-67	-50	-69	-45	-72
16.....	-50	-62	-48	-60	-50	-63	-51	-67	-51	-67	-50	-70	-52	-72	-54	-71	-51	-72	-52	-73	-54	-68	-50	-69	-48	-73

Period of Record: Surface— 74 years

Elevation: 221 Meters, M. S. L.

Upper Air— Sept. 1939 - July 1940
Jan. 1941 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

CARIBOU, MAINE

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	9	-32	6	-36	14	-28	27	-17	30	-4	36	-1	34	4	35	1	33	-3	23	-10	17	-19	11	-30	36	-36
1.....	7	-31	7	-36	14	-26	17	-16	19	-10	24	-4	24	7	23	5	23	-4	16	-13	13	-16	3	-32	24	-36
2.....	1	-39	0	-32	11	-29	10	-17	12	-18	18	-7	17	0	18	-2	16	-11	13	-18	6	-20	4	-32	18	-39
3.....	-3	-38	-3	-35	4	-33	4	-22	6	-20	12	-11	10	-8	12	-8	10	-16	6	-20	2	-27	1	-33	12	-38
4.....	-8	-43	-7	-39	-1	-38	-2	-28	1	-26	5	-17	5	-14	6	-12	5	-20	0	-24	-3	-30	-7	-38	6	-43
5.....	-17	-46	-15	-42	-12	-40	-8	-34	-4	-32	0	-25	-1	-20	0	-18	1	-24	-6	-28	-8	-35	-11	-44	1	-46
6.....	-23	-47	-21	-48	-19	-44	-16	-40	-11	-38	-6	-33	-6	-28	-5	-26	-4	-28	-12	-37	-14	-41	-17	-49	-4	-49
7.....	-30	-51	-29	-51	-25	-52	-24	-47	-18	-42	-12	-42	-12	-38	-12	-33	-10	-36	-17	-45	-20	-45	-24	-57	-10	-57
8.....	-37	-57	-36	-56	-32	-60	-31	-50	-25	-48	-19	-52	-19	-46	-19	-40	-17	-45	-24	-53	-27	-50	-32	-59	-17	-60
9.....	-43	-58	-41	-61	-40	-59	-38	-59	-32	-55	-25	-59	-26	-50	-26	-48	-24	-53	-32	-55	-33	-56	-39	-61	-24	-61
10.....	-45	-63	-40	-62	-42	-61	-41	-63	-40	-58	-33	-58	-33	-56	-34	-53	-32	-54	-35	-63	-38	-61	-38	-67	-32	-67
11.....	-44	-63	-40	-65	-42	-67	-40	-64	-44	-63	-41	-60	-41	-59	-39	-59	-40	-59	-41	-65	-36	-67	-40	-71	-36	-71
12.....	-46	-62	-40	-66	-42	-71	-41	-66	-45	-65	-44	-63	-44	-65	-41	-62	-45	-62	-44	-68	-39	-69	-40	-69	-39	-71
13.....	-46	-59	-44	-57	-42	-73	-44	-67	-45	-71	-46	-66	-46	-64	-45	-62	-46	-69	-47	-69	-43	-71	-41	-66	-41	-73
14.....	-50	-59	-46	-58	-48	-64	-47	-57	-46	-72	-48	-68	-47	-64	-47	-67	-47	-72	-48	-67	-49	-67	-43	-61	-43	-72
15.....	-51	-59	-46	-61	-49	-63	-48	-55	-47	-64	-49	-68	-47	-63	-48	-72	-48	-70	-51	-69	-51	-67	-44	-65	-44	-72
16.....	-54	-61	-49	-60	-51	-57	-48	-56	-47	-63	-47	-66	-48	-64	-48	-71	-50	-73	-52	-67	-55	-67	-47	-63	-47	-73

Period of Record: Surface- 7 years

Elevation: 191 Meters, M. S. L.

Upper Air- April 1942 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

CHARLESTON, S. C.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	28	-12	28	-14	34	-4	34	0	37	7	40	9	40	16	39	17	38	9	35	3	28	-5	27	-11	40	-14
1.....	18	-12	18	-14	21	-9	23	-1	25	4	30	13	27	15	26	15	28	9	24	4	19	-4	18	-8	30	-14
2.....	14	-16	14	-19	16	-14	15	-8	19	-2	20	6	20	10	20	9	21	4	17	-3	14	-6	14	-12	21	-19
3.....	8	-21	9	-22	12	-17	11	-14	12	-8	15	0	15	4	15	2	14	3	13	-4	10	-8	10	-15	15	-22
4.....	2	-27	3	-22	2	-23	5	-15	6	-12	9	-5	7	-1	8	-2	8	-2	10	-10	6	-15	5	-20	10	-27
5.....	-4	-33	-2	-27	-2	-31	1	-20	0	-18	2	-14	2	-7	3	-7	3	-8	3	-15	0	-21	-1	-26	3	-33
6.....	-10	-36	-9	-34	-7	-38	-7	-28	-7	-25	-2	-19	-3	-13	-3	-13	-2	-16	-2	-21	-5	-28	-8	-35	-2	-38
7.....	-17	-42	-16	-42	-14	-45	-13	-36	-11	-33	-8	-25	-9	-19	-8	-20	-8	-21	-9	-29	-11	-35	-16	-40	-8	-45
8.....	-24	-50	-25	-44	-22	-45	-20	-43	-19	-41	-13	-30	-16	-26	-14	-27	-15	-29	-15	-36	-16	-42	-22	-41	-13	-50
9.....	-30	-52	-33	-50	-29	-53	-27	-49	-26	-49	-20	-40	-22	-35	-20	-35	-23	-36	-22	-45	-23	-50	-30	-49	-20	-53
10.....	-38	-59	-38	-56	-38	-58	-35	-56	-34	-53	-26	-49	-30	-40	-26	-45	-30	-44	-29	-52	-32	-58	-38	-56	-26	-59
11.....	-44	-63	-40	-61	-41	-65	-44	-61	-41	-60	-33	-55	-36	-47	-32	-54	-37	-53	-36	-56	-41	-65	-40	-61	-32	-65
12.....	-47	-67	-44	-65	-44	-66	-48	-64	-50	-65	-40	-62	-42	-56	-39	-62	-43	-59	-42	-62	-44	-68	-45	-66	-39	-68
13.....	-50	-68	-49	-67	-46	-69	-52	-67	-52	-69	-46	-69	-49	-66	-46	-70	-50	-66	-49	-69	-50	-68	-50	-70	-46	-70
14.....	-54	-70	-52	-69	-50	-72	-54	-70	-52	-71	-52	-72	-53	-72	-54	-74	-55	-72	-54	-73	-56	-72	-56	-74	-50	-74
15.....	-57	-71	-52	-69	-53	-73	-56	-73	-55	-75	-57	-73	-58	-74	-58	-78	-58	-76	-58	-79	-57	-75	-60	-77	-52	-79
16.....	-60	-72	-54	-73	-56	-72	-58	-74	-55	-72	-60	-77	-62	-75	-62	-77	-60	-77	-60	-84	-62	-77	-62	-78	-54	-84

Period of Record: Surface— 75 years

Elevation: 14 Meters, M. S. L.

Upper Air— July 1939 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

CHEYENNE, WYO.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	18	-39	19	-37	25	-29	28	-21	31	-13	36	-2	38	1	36	-4	33	-9	29	-21	24	-29	21	-33	38	-39
1.....																										
2.....	11	-27	8	-35	13	-16	16	-17	21	-4	22	1	27	9	27	7	21	-5	18	-11	12	-16	10	-17	27	-35
3.....	8	-25	7	-29	7	-18	11	-23	15	-10	18	-7	22	2	21	5	16	-9	15	-11	10	-20	9	-18	22	-29
4.....	1	-27	1	-37	2	-24	1	-32	6	-16	11	-14	13	-4	12	-3	7	-13	6	-18	3	-26	4	-25	13	-37
5.....	-7	-35	-6	-42	-7	-33	-7	-36	-4	-25	1	-22	4	-11	3	-8	0	-19	-1	-27	-5	-34	-4	-33	4	-42
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 69 Years

Elevation: 1873 Meters, M. S. L.

Upper Air— July 1934 - July 1939

Maximum and Minimum Temperatures, (°C.)

CLEVELAND, OHIO

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface.....	22	-27	23	-27	28	-20	31	-12	33	-2	38	3	39	8	38	8	37	2	31	-4	26	-18	21	-24	39	-27
1.....	16	-20	14	-25	13	-19	19	-7	22	-1	27	-7	28	12	25	10	25	6	20	-3	18	-13	15	-19	28	-25
2.....	10	-23	10	-26	6	-27	11	-13	15	-4	22	-3	21	5	19	4	18	0	14	-9	11	-20	11	-20	22	-27
3.....	4	-25	4	-33	1	-28	4	-18	10	-7	14	-7	14	0	13	0	12	-5	8	-14	6	-23	5	-20	14	-33
4.....	-3	-30	-3	-40	-5	-35	-1	-24	4	-14	6	-12	9	-6	7	-7	8	-11	4	-18	3	-27	0	-23	9	-40
5.....	-9	-32	-10	-35	-11	-36	-7	-33	-3	-24	1	-18	3	-9	3	-13	3	-18	-2	-26	-2	-35	-5	-26	3	-36
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface—71 years

Elevation: 246 Meters, M. S. L.

Upper Air— July 1931 - June 1934

Maximum and Minimum Temperatures, (°C.)

COCO SOLO, C. Z.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface.....	28	21	28	22	28	20	29	22	30	22	30	23	29	23	29	23	29	18	29	17	31	17	29	15	31	15
1.....	23	16	22	16	23	17	24	16	25	20	24	20	24	19	24	19	24	19	24	19	24	19	22	17	25	16
2.....	20	11	18	10	20	10	21	10	19	15	19	14	20	14	20	14	20	14	20	14	18	13	19	12	21	10
3.....	14	6	14	7	17	6	17	6	16	9	17	9	15	8	16	8	16	8	14	8	16	8	14	7	17	6
4.....	9	0	9	2	10	1	12	1	11	2	10	1	10	2	10	2	9	1	9	3	10	2	11	2	12	0
5.....	4	-5	3	-4	7	4	8	-7	3	-3	0	-3	0	-4	0	-2	1	-4	3	-3	6	-2	5	-4	8	-7
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface- September 1936 - Nov. 1941

Upper Air- September 1936 - Nov. 1941

Elevation: 15 Meters, M. S. L.

Surface data taken from apob records only.

Maximum and Minimum Temperatures, (°C.)

DALLAS, TEX.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	29	-19	34	-17	36	-9	36	-1	39	7	41	12	41	13	43	14	41	6	38	-3	30	-7	27	-12	43	-19
1.....	17	-5	21	-21	24	-12	29	0	26	11	29	16	32	20	30	18	28	14	24	6	19	-3	22	-8	32	-21
2.....	15	-6	18	-18	18	-12	20	-3	22	7	24	9	24	14	22	12	21	11	20	1	14	-3	16	-5	24	-18
3.....	10	-14	10	-22	11	-11	12	-8	15	3	18	7	17	8	18	5	15	9	13	-4	10	-7	10	-10	18	-22
4.....	2	-19	4	-27	5	-14	4	-12	8	-4	10	0	10	2	11	-1	12	-2	10	-11	4	-13	5	-20	12	-27
5.....	-2	-25	-5	-25	-2	-22	-4	-19	0	-10	3	-8	4	-4	3	-8	5	-5	4	-15	-3	-19	-3	-29	5	-29
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 28 years

Elevation: 147 Meters, M. S. L.

Upper Air— July 1931 - June 1934

Maximum and Minimum Temperatures, (°C.)

DAYTON, OHIO (WRIGHT FIELD)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	24	-30	22	-33	31	-19	32	-8	37	-2	38	4	42	7	39	4	39	-2	34	-8	25	-19	20	-27	42	-33
1.....	13	-21	14	-22	18	-14	20	-9	24	-2	26	8	30	9	29	10	25	3	20	-6	18	-13	14	-16	30	-22
2.....	8	-20	12	-24	14	-18	13	-13	16	-6	20	2	24	1	22	2	17	-3	17	-10	12	-20	6	-20	24	-24
3.....	3	-25	4	-25	6	-23	9	-17	11	-9	16	-6	16	-2	14	0	15	-6	8	-15	6	-22	1	-25	16	-25
4.....	-1	-30	-2	-30	-2	-27	0	-24	5	-13	9	-10	10	-8	8	-8	10	-12	4	-19	0	-26	-4	-28	10	-30
5.....	-10	-32	-9	-32	-6	-29	-5	-27	0	-19	2	-16	3	-14	3	-13	2	-16	-2	-27	-5	-32	-11	-34	3	-34
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 59 years

Elevation: 244 Meters, M. S. L.

Upper Air— July 1934 - June 1938

Maximum and Minimum Temperatures, (°C.)

DENVER, COLO.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	24	-34	25	-32	28	-24	30	-16	35	-7	37	0	39	6	41	4	36	6	32	-19	26	-28	26	-32	41	-34
1.....	13	-21	16	-18	18	-21	22	-12	24	-3	28	4	28	10	30	4	28	-6	23	-6	20	-14	19	-22	30	-22
2.....	9	-25	7	-26	10	-25	14	-19	17	-8	20	-3	21	5	22	2	18	-8	13	-10	12	-16	13	-22	22	-26
3.....	3	-25	1	-33	2	-28	5	-25	9	-15	11	-9	12	-1	14	-4	10	-10	5	-17	3	-24	8	-28	14	-33
4.....	-5	-32	-7	-35	-7	-34	-3	-31	1	-22	2	-16	6	-9	5	-11	2	-14	-2	-24	-6	-31	1	-37	6	-37
5.....	-12	-41	-14	-40	-15	-41	-12	-35	-7	-30	-5	-25	-2	-16	0	-16	-4	-21	-6	-31	-12	-40	-7	-41	0	-41
6.....	-19	-47	-21	-47	-22	-46	-19	-43	-15	-38	-12	-33	-9	-25	-7	-24	-9	-28	-16	-41	-19	-49	-15	-46	-7	-49
7.....	-27	-53	-29	-53	-30	-51	-26	-50	-22	-46	-18	-39	-17	-34	-14	-32	-16	-36	-23	-48	-28	-50	-23	-51	-14	-53
8.....	-36	-58	-37	-58	-37	-55	-33	-54	-29	-50	-25	-44	-24	-44	-21	-40	-23	-46	-30	-51	-35	-54	-31	-58	-21	-58
9.....	-44	-63	-42	-60	-45	-65	-39	-59	-37	-54	-32	-51	-32	-54	-28	-49	-32	-51	-36	-52	-40	-58	-38	-62	-28	-65
10.....	-45	-68	-43	-68	-44	-65	-43	-64	-44	-60	-39	-58	-39	-61	-37	-56	-40	-56	-42	-62	-44	-64	-45	-67	-37	-68
11.....	-44	-72	-45	-68	-44	-70	-45	-70	-48	-65	-43	-63	-46	-60	-45	-61	-46	-61	-46	-66	-46	-69	-46	-70	-43	-72
12.....	-47	-70	-46	-71	-47	-70	-43	-70	-46	-68	-49	-66	-52	-63	-51	-64	-50	-66	-49	-70	-49	-70	-48	-71	-43	-71
13.....	-51	-69	-47	-65	-48	-64	-44	-72	-50	-71	-51	-69	-57	-68	-54	-68	-55	-68	-51	-72	-50	-69	-50	-70	-44	-72
14.....	-52	-72	-48	-65	-49	-65	-45	-71	-53	-67	-53	-69	-58	-72	-57	-71	-55	-72	-54	-72	-52	-70	-50	-73	-45	-73
15.....	-52	-73	-52	-66	-52	-66	-52	-69	-54	-68	-54	-70	-60	-73	-59	-74	-54	-76	-55	-71	-53	-74	-53	-76	-52	-76

Period of Record: Surface—74 years

Elevation: 1616 Meters, M. S. L.

Upper Air—July 1939 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

DETROIT, MICH. (SELFRIDGE FIELD)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	19	-27	20	-29	28	-22	31	-13	35	-2	40	3	41	9	40	6	38	-1	32	-6	24	-18	18	-31	41	-31
1.....	12	-23	16	-23	17	-20	25	-10	24	-3	25	3	31	8	30	7	26	-2	21	-7	18	-12	14	-20	31	-23
2.....	7	-30	10	-28	13	-26	15	-18	18	-8	18	0	22	-1	23	0	21	-9	17	-15	13	-18	10	-24	23	-30
3.....	2	-30	4	-31	5	-31	7	-24	12	-12	14	-7	16	-4	16	-5	14	-16	16	-19	7	-23	6	-25	16	-31
4.....	-2	-34	-4	-35	-2	-35	0	-28	6	-20	7	-12	9	-9	9	-11	9	-15	11	-24	2	-29	4	-33	11	-35
5.....	-8	-39	-10	-41	-8	-39	-6	-32	-1	-26	0	-18	3	-15	3	-18	3	-21	0	-32	-3	-36	-2	-38	3	-41
6.....	-16	-44	-21	-43	-16	-41	-13	-40	-9	-26	-5	-20	-5	-19	-2	-17	-3	-28	-7	-38	-13	-43	-8	-45	-2	-45
7.....	-24	-50	-28	-51	-22	-45	-21	-47	-15	-34	-11	-27	-9	-28	-9	-25	-8	-36	-13	-45	-21	-44	-16	-47	-8	-51
8.....	-32	-52	-36	-53	-32	-52	-29	-54	-22	-41	-18	-35	-15	-36	-17	-32	-15	-44	-20	-47	-28	-48	-24	-54	-15	-54
9.....	-39	-54	-40	-58	-40	-56	-32	-54	-29	-48	-24	-41	-23	-43	-24	-40	-22	-53	-28	-50	-36	-52	-31	-56	-22	-58
10.....	-44	-59	-39	-60	-43	-62	-41	-57	-36	-55	-31	-48	-30	-50	-31	-48	-28	-54	-34	-56	-41	-60	-39	-60	-28	-62
11.....	-44	-63	-38	-63	-44	-66	-43	-63	-44	-57	-39	-54	-38	-54	-39	-55	-35	-59	-41	-61	-42	-63	-43	-63	-35	-66
12.....	-44	-70	-40	-62	-45	-69	-43	-65	-48	-64	-46	-58	-45	-56	-43	-60	-43	-64	-45	-63	-44	-66	-44	-67	-40	-70
13.....	-45	-65	-42	-59	-47	-72	-44	-73	-49	-69	-48	-67	-50	-60	-48	-63	-47	-65	-48	-66	-47	-69	-45	-66	-42	-73
14.....	-47	-63	-45	-58	-49	-66	-49	-69	-50	-71	-49	-72	-51	-65	-50	-66	-49	-65	-50	-68	-47	-68	-48	-69	-45	-72
15.....	-48	-66	-47	-59	-51	-62	-50	-67	-51	-68	-54	-70	-52	-70	-52	-74	-50	-72	-52	-69	-52	-67	-51	-70	-47	-74
16.....	-51	-70	-49	-59	-54	-61	-52	-64	-52	-68	-56	-69	-53	-72	-55	-74	-53	-74	-53	-67	-50	-72	-50	-68	-49	-74

Period of Record: Surface— 75 years

Elevation: 217 Meters, M. S. L.

Upper Air— 1-5 km. July 1934 - June 1938

1-16 km. Aug. 1941 - Dec. 1943

Maximum and Minimum Temperatures, (°C.)

DODGE CITY, KANS.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	26	-29	29	-32	37	-23	35	-13	38	-7	42	2	43	8	43	6	40	-1	34	-12	30	-25	27	-26	43	-32
1.....	14	-13	17	-15	18	-9	19	-1	28	2	32	12	30	16	34	13	31	1	23	0	23	-8	15	-16	34	-16
2.....	10	-14	13	-12	15	-12	17	-8	23	-1	27	6	24	10	26	8	25	2	17	-4	20	-8	12	-15	27	-15
3.....	4	-14	7	-16	7	-16	9	-14	15	-8	19	1	18	4	20	3	16	-1	12	-10	11	-15	8	-20	20	-20
4.....	-2	-20	0	-19	0	-23	0	-17	8	-15	10	-5	9	0	10	2	8	-6	4	-13	4	-21	0	-28	10	-28
5.....	-10	-29	-8	-26	-8	-31	-8	-23	0	-21	2	-10	4	-7	4	-8	2	-13	-2	-19	-5	-26	-6	-33	4	-33
6.....	-17	-34	-14	-34	-16	-40	-15	-29	-8	-27	-5	-17	-4	-13	-3	-16	-4	-20	-10	-26	-13	-32	-13	-40	-3	-40
7.....	-24	-37	-22	-41	-24	-43	-20	-36	-15	-35	-12	-24	-10	-19	-10	-22	-11	-28	-16	-34	-18	-39	-21	-44	-10	-44
8.....	-31	-47	-29	-49	-30	-50	-28	-44	-23	-42	-19	-32	-15	-25	-16	-28	-18	-35	-22	-40	-27	-45	-28	-50	-15	-50
9.....	-39	-53	-37	-51	-38	-52	-36	-51	-29	-48	-26	-40	-22	-33	-23	-35	-25	-41	-29	-47	-35	-51	-34	-51	-22	-53
10.....	-43	-60	-45	-56	-43	-59	-40	-56	-37	-53	-34	-48	-31	-40	-30	-44	-33	-47	-36	-54	-43	-56	-39	-57	-30	-60
11.....	-45	-65	-47	-64	-43	-65	-43	-63	-44	-56	-41	-58	-38	-48	-38	-52	-41	-52	-41	-59	-46	-64	-40	-64	-38	-65
12.....	-48	-66	-47	-68	-43	-65	-43	-68	-51	-63	-47	-61	-46	-56	-46	-57	-48	-60	-47	-64	-50	-65	-45	-67	-43	-68
13.....	-52	-66	-48	-65	-44	-61	-46	-67	-51	-69	-53	-65	-51	-66	-52	-62	-51	-64	-53	-71	-51	-68	-48	-67	-44	-71
14.....	-56	-65	-51	-61	-46	-60	-49	-63	-52	-66	-55	-69	-59	-71	-59	-69	-53	-68	-56	-70	-55	-68	-50	-72	-46	-72
15.....	-58	-67	-53	-63	-48	-63	-52	-64	-56	-65	-56	-72	-61	-72	-62	-72	-55	-72	-60	-69	-57	-68	-55	-69	-48	-72
16.....	-62	-67	-60	-60	-50	-62	-54	-62	-57	-65	-56	-73	-65	-73	-67	-75	-58	-75	-66	-73	-59	-69	-58	-70	-50	-75

Period of Record: Surface— 71 years

Elevation: 787 Meters, M. S. L.

Upper Air— Nov. 1943 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

EL PASO, TEX.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
Surface...	25	-17	30	-15	34	-10	35	-3	39	2	41	8	41	13	39	11	38	5	34	-3	29	-12	25	-13	41	-17		
1.....	15	-11	17	-8	21	-5	25	-5	27	6	31	12	31	13	31	14	28	4	24	-1	19	-8	18	-4	31	-11		
2.....	9	-13	10	-12	11	-13	16	-8	18	-2	22	6	21	8	21	8	18	3	17	-6	12	-9	11	-12	22	-13		
3.....	2	-17	2	-19	2	-18	8	-14	9	-9	13	-1	12	2	14	2	11	-4	10	-12	6	-16	5	-18	14	-19		
4.....	-3	-23	-4	-26	-5	-23	-1	-22	1	-16	4	-10	3	-5	7	-6	4	-10	3	-18	0	-24	0	-23	7	-26		
5.....	-10	-30	-7	-33	-11	-29	-8	-30	-6	-22	-2	-16	-2	-11	0	-11	-2	-16	-4	-27	-7	-28	-7	-32	0	-33		
6.....	-19	-37	-16	-41	-18	-35	-15	-38	-12	-30	-9	-26	-7	-17	-6	-17	-9	-24	-12	-34	-14	-33	-14	-36	-6	-41		
7.....	-26	-45	-24	-49	-26	-44	-22	-42	-20	-39	-16	-33	-15	-25	-12	-24	-15	-27	-18	-41	-23	-41	-22	-43	-12	-49		
8.....	-32	-52	-31	-53	-30	-50	-31	-48	-28	-47	-23	-38	-21	-32	-17	-33	-21	-34	-25	-44	-30	-45	-29	-51	-17	-53		
9.....	-40	-57	-38	-56	-36	-57	-39	-55	-33	-51	-30	-45	-29	-40	-24	-40	-29	-44	-32	-50	-37	-52	-38	-55	-24	-57		
10.....	-43	-64	-43	-63	-41	-62	-43	-62	-40	-55	-38	-51	-35	-48	-31	-48	-35	-50	-40	-56	-41	-61	-44	-62	-31	-64		
11.....	-46	-68	-44	-67	-45	-67	-45	-64	-44	-61	-44	-60	-41	-57	-38	-56	-42	-58	-43	-64	-47	-66	-48	-67	-38	-68		
12.....	-49	-71	-50	-68	-48	-68	-49	-69	-51	-68	-50	-66	-47	-65	-46	-64	-50	-64	-51	-67	-53	-72	-50	-72	-46	-72		
13.....	-55	-74	-52	-70	-53	-69	-53	-67	-52	-70	-54	-68	-54	-72	-53	-69	-56	-70	-56	-73	-55	-79	-54	-72	-52	-79		
14.....	-56	-71	-55	-71	-56	-72	-55	-69	-56	-72	-58	-71	-60	-75	-60	-77	-62	-77	-62	-77	-59	-77	-61	-77	-58	-74	-55	-77
15.....	-58	-76	-56	-79	-58	-74	-52	-72	-56	-71	-61	-75	-65	-76	-65	-78	-63	-80	-62	-77	-61	-77	-58	-77	-52	-80		
16.....																												

Period of Record: Surface— 58 years

Elevation: 1195 Meters, M. S. L.

Upper Air— 2-5 km. July 1935 -July 1939
 2-16 km. July 1939- Dec. 1945

Maximum and Minimum Temperatures, (°C.)

ELY, NEV.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	14	-29	14	-29	20	-24	24	-14	28	-7	34	-4	36	3	35	-2	31	-8	26	-13	22	-16	18	-23	36	-29
1.....																										
2.....	11	-18	6	-14	13	-10	18	-6	21	-1	26	3	30	10	27	7	23	1	17	-5	13	-13	9	-16	30	-18
3.....	4	-20	6	-18	7	-16	12	-15	14	-10	20	-5	25	5	23	4	18	-5	14	-11	11	-17	8	-18	25	-20
4.....	0	-29	0	-25	-1	-22	3	-25	6	-17	11	-13	15	-1	14	-4	9	-12	5	-17	5	-24	2	-25	15	-29
5.....	-7	-32	-7	-31	-8	-31	-5	-32	-1	-24	2	-20	6	-8	6	-12	2	-19	0	-23	-2	-30	-5	-31	6	-32
6.....	-13	-37	-12	-41	-15	-38	-11	-40	-8	-32	-4	-26	-3	-16	-3	-18	-5	-27	-8	-30	-9	-35	-11	-39	-3	-41
7.....	-21	-44	-20	-48	-22	-46	-18	-45	-16	-38	-12	-33	-9	-24	-10	-24	-12	-36	-16	-38	-16	-43	-18	-48	-9	-48
8.....	-28	-50	-26	-53	-30	-51	-25	-49	-23	-44	-20	-41	-15	-32	-17	-31	-19	-40	-22	-45	-24	-49	-24	-53	-15	-53
9.....	-37	-57	-32	-56	-38	-57	-33	-55	-30	-51	-27	-50	-22	-41	-24	-39	-24	-45	-24	-50	-30	-55	-29	-61	-22	-61
10.....	-46	-64	-40	-60	-45	-62	-40	-60	-37	-54	-34	-54	-28	-50	-31	-46	-33	-55	-31	-57	-36	-60	-35	-64	-28	-64
11.....	-46	-69	-46	-67	-47	-64	-43	-63	-43	-61	-41	-62	-34	-58	-38	-54	-40	-59	-40	-60	-43	-66	-42	-68	-34	-69
12.....	-47	-74	-45	-71	-47	-68	-42	-69	-45	-66	-44	-62	-41	-62	-45	-60	-43	-61	-46	-65	-48	-70	-46	-69	-41	-74
13.....	-47	-72	-47	-75	-48	-71	-46	-69	-46	-69	-46	-70	-47	-66	-49	-65	-47	-64	-48	-69	-50	-72	-49	-71	-46	-75
14.....	-49	-75	-51	-70	-49	-69	-48	-70	-44	-72	-47	-74	-52	-69	-51	-69	-50	-68	-49	-68	-51	-69	-50	-73	-44	-75
15.....	-53	-72	-52	-71	-52	-66	-49	-66	-49	-70	-48	-80	-54	-74	-53	-72	-53	-70	-52	-69	-52	-72	-52	-73	-48	-80
16.....	-55	-73	-52	-75	-53	-67	-51	-71	-53	-66	-49	-84	-57	-74	-55	-76	-55	-72	-53	-73	-56	-72	-54	-74	-49	-84

Period of Record: Surface— 8 years

Elevation: 1908 Meters, M. S. L.

Upper Air— July 1939 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

FAIRBANKS, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	6	-54	10	-49	13	-49	21	-36	30	-18	35	-2	37	-1	32	-7	27	-12	19	-33	12	-48	14	-51	37	-54
1.....	6	-37	7	-35	7	-37	10	-25	18	-18	24	0	20	4	20	1	17	-6	9	-21	12	-31	4	-33	24	-37
2.....	9	-34	1	-37	4	-40	2	-29	10	-23	14	-7	12	-3	12	-5	9	-14	7	-23	5	-32	0	-35	14	-40
3.....	1	-36	-3	-39	-5	-43	-4	-30	5	-26	5	-13	5	-9	8	-11	6	-20	0	-28	0	-35	-5	-36	8	-43
4.....	-8	-42	-11	-42	-12	-46	-11	-35	-2	-29	-2	-21	1	-16	0	-16	1	-26	-5	-34	-7	-39	-11	-41	1	-46
5.....	-15	-46	-18	-48	-18	-49	-18	-40	-10	-34	-7	-28	-4	-23	-6	-23	-5	-33	-12	-38	-12	-43	-17	-46	-4	-49
6.....	-24	-51	-23	-50	-25	-53	-24	-46	-17	-41	-14	-33	-10	-30	-13	-31	-10	-38	-20	-45	-24	-48	-22	-52	-10	-53
7.....	-29	-56	-30	-56	-32	-58	-31	-52	-23	-48	-19	-42	-16	-38	-18	-39	-17	-45	-26	-51	-31	-55	-32	-56	-16	-58
8.....	-36	-61	-37	-58	-41	-61	-40	-56	-31	-53	-27	-47	-23	-45	-23	-46	-25	-51	-34	-56	-38	-62	-41	-61	-23	-62
9.....	-42	-63	-44	-64	-39	-64	-46	-60	-38	-56	-34	-53	-31	-51	-31	-52	-32	-56	-40	-63	-45	-63	-47	-63	-31	-64
10.....	-44	-66	-44	-67	-39	-63	-43	-62	-41	-60	-39	-59	-38	-58	-39	-59	-40	-61	-44	-63	-44	-64	-45	-64	-38	-67
11.....	-45	-72	-43	-65	-39	-68	-43	-64	-41	-63	-37	-60	-40	-59	-43	-61	-42	-61	-42	-64	-42	-64	-42	-64	-37	-72
12.....	-42	-69	-42	-64	-40	-65	-42	-59	-41	-63	-41	-61	-40	-62	-42	-62	-43	-64	-44	-63	-42	-60	-43	-70	-40	-70
13.....	-43	-69	-42	-57	-38	-61	-41	-56	-42	-65	-41	-62	-40	-62	-42	-61	-44	-65	-44	-61	-42	-58	-43	-64	-38	-69
14.....	-43	-63	-42	-55	-42	-62	-43	-54	-42	-61	-41	-58	-40	-60	-43	-58	-44	-62	-45	-59	-43	-56	-42	-60	-40	-63
15.....	-42	-62	-44	-55	-42	-56	-42	-55	-42	-58	-42	-56	-41	-56	-44	-56	-45	-62	-44	-59	-42	-55	-42	-60	-41	-62
16.....	-44	-61	-44	-53	-41	-55	-43	-54	-43	-56	-42	-51	-42	-54	-44	-54	-46	-62	-45	-59	-42	-54	-42	-60	-41	-62

Period of Record: Surface— 42 years

Elevation: 134 Meters, M. S. L.

Upper Air— 1-5 km. Sept. 1936-Mar. 1937

Sept. 1937-Mar. 1938

1-16 km. Sept. 1939-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

FARGO, N. DAK.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	12	-44	15	-44	27	-36	33	-25	40	-10	40	-2	46	4	39	0	38	-8	34	-20	22	-33	13	-38	46	-44
1.....	7	-36	10	-34	19	-24	18	-21	27	-6	31	-2	34	8	32	4	26	-2	22	-11	17	-21	9	-28	34	-36
2.....	6	-28	12	-31	12	-24	13	-24	20	-8	23	-6	26	2	28	-5	20	-6	18	-16	14	-21	4	-29	28	-31
3.....	-1	-29	6	-36	4	-29	7	-27	12	-10	16	-10	20	-1	19	-7	13	-12	11	-23	6	-26	2	-31	20	-36
4.....	-9	-34	-2	-40	-3	-32	-1	-31	4	-16	8	-15	10	-9	10	-12	5	-18	3	-25	0	-30	-2	-32	10	-40
5.....	-16	-37	-8	-43	-9	-39	-7	-38	-1	-23	0	-22	3	-16	1	-17	-2	-23	-4	-30	-6	-34	-8	-40	3	-43
6.....	-21	-45	-23	-46	-16	-46	-14	-46	-8	-32	-9	-24	-8	-22	-7	-20	-8	-30	-14	-31	-20	-40	-23	-46	-7	-46
7.....	-27	-50	-29	-53	-24	-51	-22	-50	-16	-41	-16	-32	-14	-30	-14	-29	-15	-38	-20	-38	-27	-47	-30	-51	-14	-53
8.....	-33	-54	-37	-56	-33	-58	-31	-58	-24	-43	-23	-42	-22	-38	-20	-34	-21	-46	-27	-45	-34	-50	-38	-55	-20	-58
9.....	-41	-61	-45	-63	-40	-61	-38	-56	-32	-51	-31	-50	-29	-46	-26	-42	-27	-50	-30	-44	-40	-55	-45	-65	-26	-65
10.....	-46	-67	-49	-67	-49	-62	-45	-61	-40	-58	-36	-56	-37	-54	-35	-50	-35	-50	-32	-54	-44	-58	-46	-66	-32	-67
11.....	-46	-74	-49	-73	-51	-69	-48	-67	-46	-61	-43	-58	-44	-59	-42	-57	-43	-57	-38	-60	-45	-60	-45	-72	-38	-74
12.....	-47	-74	-50	-68	-50	-75	-50	-72	-47	-71	-45	-64	-51	-60	-47	-59	-47	-62	-43	-66	-46	-60	-45	-65	-43	-75
13.....	-48	-79	-50	-64	-51	-81	-50	-78	-49	-75	-48	-71	-54	-66	-51	-66	-52	-67	-45	-71	-50	-59	-49	-64	-45	-81
14.....	-48	-67	-50	-63	-52	-73	-49	-72	-50	-72	-52	-78	-54	-69	-51	-67	-54	-67	-49	-67	-52	-60	-48	-61	-48	-78
15.....	-50	-72	-52	-62	-52	-71	-54	-70	-53	-72	-52	-75	-55	-67	-55	-70	-54	-68	-55	-65	-52	-61	-50	-58	-50	-75
16.....	-50	-78	-53	-62	-54	-71	-55	-68	-54	-73	-50	-72	-54	-65	-59	-69	-54	-69	-55	-69	-52	-64	-51	-59	-50	-78

Period of Record: Surface— 58 years

Elevation: 274 Meters, M. S. L.

Upper Air— 1-5 km. July 1934 - June 1938
 1-16 km. July 1938 - June 1939

Maximum and Minimum Temperatures, (°C.)

GAMBELL, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	4	-33	1	-35	3	-35	7	-29	10	-16	18	-4	22	-1	20	0	17	-6	12	-13	12	-21	6	-32	22	-35
1.....	4	-35	-1	-31	-1	-32	1	-24	7	-22	13	-6	14	1	14	-5	9	-6	6	-17	0	-26	1	-34	14	-35
2.....	3	-40	-2	-32	-3	-32	-2	-29	2	-25	7	-5	10	-3	7	-10	7	-12	2	-21	0	-28	0	-34	10	-40
3.....	-2	-42	-5	-35	-6	-35	-7	-32	-4	-29	2	-11	4	-10	3	-15	2	-21	2	-27	-3	-31	-7	-38	4	-42
4.....	-10	-47	-12	-40	-12	-41	-11	-36	-9	-33	-3	-17	0	-17	-3	-21	-2	-26	-4	-35	-9	-39	-12	-38	0	-47
5.....	-18	-49	-20	-44	-17	-46	-17	-42	-15	-39	-10	-25	-8	-24	-7	-24	-6	-33	-10	-43	-15	-43	-18	-43	-6	-49
6.....	-23	-54	-25	-49	-25	-51	-23	-46	-22	-45	-16	-32	-14	-30	-14	-32	-12	-38	-14	-48	-22	-49	-24	-48	-12	-54
7.....	-31	-58	-33	-54	-31	-56	-32	-50	-29	-51	-21	-39	-20	-38	-22	-40	-19	-46	-19	-53	-28	-53	-31	-54	-19	-58
8.....	-38	-59	-39	-58	-40	-58	-36	-57	-37	-55	-28	-46	-26	-46	-28	-46	-26	-52	-26	-56	-36	-56	-40	-57	-26	-59
9.....	-47	-62	-40	-63	-44	-62	-44	-62	-40	-55	-36	-52	-33	-53	-35	-52	-31	-57	-33	-64	-43	-62	-42	-62	-31	-64
10.....	-47	-66	-43	-66	-42	-67	-43	-63	-40	-59	-44	-56	-36	-54	-38	-56	-30	-57	-42	-62	-44	-65	-43	-68	-30	-68
11.....	-45	-68	-43	-61	-41	-63	-38	-64	-39	-63	-41	-59	-36	-58	-37	-59	-36	-62	-42	-66	-44	-65	-41	-70	-36	-70
12.....	-45	-70	-43	-55	-40	-60	-39	-60	-40	-59	-41	-62	-38	-59	-38	-58	-42	-59	-43	-63	-44	-65	-41	-65	-38	-70
13.....	-44	-61	-42	-53	-39	-58	-39	-53	-41	-57	-41	-60	-39	-55	-40	-56	-43	-63	-44	-60	-43	-63	-40	-62	-39	-63
14.....	-45	-58	-41	-53	-41	-58	-41	-53	-41	-56	-41	-54	-39	-51	-40	-52	-44	-61	-43	-52	-43	-59	-41	-59	-39	-61
15.....	-47	-60	-41	-52	-41	-57	-41	-53	-42	-54	-40	-52	-39	-50	-40	-52	-44	-62	-44	-54	-43	-58	-40	-60	-39	-62
16.....	-51	-61	-42	-50	-40	-59	-40	-55	-41	-52	-40	-51	-40	-50	-41	-51	-44	-62	-46	-54	-43	-57	-41	-59	-40	-62

Period of Record: Surface—10 years

Elevation: 10 Meters, M. S. L.

Upper Air— Nov. 1942 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

GLASGOW, MONT.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	17	-49	23	-51	27	-43	32	-28	38	-9	43	-4	45	2	43	-2	39	-10	36	-22	24	-41	21	-44	45	-51
1.....	11	-21	8	-24	17	-25	14	-7	25	-2	30	2	35	9	30	9	29	-4	22	-1	13	-21	10	-26	35	-26
2.....	8	-19	5	-25	9	-25	8	-16	18	-12	21	-3	26	2	23	3	22	-8	17	-7	8	-25	6	-22	26	-25
3.....	1	-24	-2	-28	1	-28	0	-23	8	-16	14	-8	17	-5	15	-2	14	-10	9	-15	3	-26	1	-26	17	-28
4.....	-5	-29	-7	-33	-5	-34	-6	-29	1	-21	5	-15	7	-9	6	-8	6	-18	4	-23	-4	-32	-5	-31	7	-34
5.....	-13	-34	-12	-40	-11	-41	-12	-36	-6	-27	-2	-22	-1	-14	-1	-15	-2	-22	-3	-30	-10	-39	-11	-37	-1	-41
6.....	-20	-43	-18	-43	-15	-46	-20	-41	-13	-34	-7	-30	-6	-21	-7	-22	-8	-29	-10	-36	-17	-43	-18	-43	-6	-46
7.....	-26	-47	-26	-48	-21	-54	-27	-48	-21	-42	-15	-37	-13	-30	-15	-30	-15	-37	-15	-42	-23	-49	-26	-51	-13	-54
8.....	-33	-54	-32	-54	-27	-61	-36	-53	-28	-46	-22	-47	-20	-39	-20	-38	-23	-44	-23	-48	-30	-53	-33	-55	-20	-61
9.....	-39	-60	-41	-62	-33	-59	-44	-58	-36	-54	-30	-51	-28	-47	-27	-44	-30	-49	-31	-53	-38	-59	-40	-62	-27	-62
10.....	-44	-61	-46	-63	-41	-59	-44	-62	-44	-59	-38	-56	-36	-51	-34	-50	-37	-55	-38	-58	-47	-60	-45	-63	-34	-63
11.....	-47	-67	-44	-63	-41	-64	-44	-64	-46	-61	-44	-59	-41	-58	-41	-57	-43	-60	-43	-65	-47	-66	-45	-67	-41	-67
12.....	-45	-69	-45	-57	-40	-69	-43	-68	-44	-65	-43	-62	-45	-60	-42	-58	-43	-63	-47	-66	-46	-70	-44	-71	-40	-71
13.....	-47	-71	-47	-54	-46	-65	-45	-58	-46	-72	-46	-64	-46	-65	-48	-60	-45	-66	-47	-68	-47	-69	-46	-63	-45	-72
14.....			-49	-56	-48	-57	-45	-54	-48	-63	-47	-67	-48	-62	-49	-66	-46	-62	-49	-71	-48	-67	-46	-66	-45	-71
15.....			-51	-56	-48	-56	-46	-58	-50	-58	-49	-66	-50	-63	-53	-64	-48	-66	-50	-72	-57	-65	-48	-64	-46	-72
16.....			-52	-56	-48	-60	-47	-58	-50	-57	-50	-61	-51	-66	-53	-64	-50	-65	-52	-64	-56	-66	-53	-62	-47	-66

Period of Record: Surface— 50 years

Elevation: 648 Meters, M. S. L.

Upper Air— June 1943 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

GREAT FALLS, MONT.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	18	-42	21	-45	23	-36	31	-23	38	-7	39	0	42	2	41	1	38	-12	32	-23	23	-32	21	-39	42	-45
1.....																										
2.....	10	-38	10	-26	11	-28	17	-14	21	-8	26	-3	24	6	27	3	22	-6	22	-11	13	-23	9	-29	27	-38
3.....	4	-33	3	-32	3	-29	8	-21	12	-15	17	-8	16	-2	21	-2	14	-11	13	-15	6	-24	5	-25	21	-33
4.....	-2	-38	-3	-36	-5	-30	0	-28	3	-21	8	-15	8	-10	11	-9	7	-16	6	-22	2	-30	-3	-30	11	-38
5.....	-10	-44	-11	-41	-11	-37	-6	-35	-5	-28	0	-22	0	-17	1	-14	0	-23	-2	-29	-6	-36	-8	-38	1	-44
6.....	-17	-48	-18	-44	-17	-45	-13	-42	-12	-36	-7	-30	-6	-23	-3	-21	-8	-32	-9	-38	-14	-43	-15	-44	-3	-48
7.....	-23	-53	-24	-48	-25	-54	-21	-49	-20	-45	-13	-39	-12	-31	-11	-29	-14	-41	-18	-44	-22	-52	-24	-51	-11	-54
8.....	-31	-57	-31	-53	-32	-56	-30	-54	-28	-52	-20	-47	-21	-39	-18	-37	-20	-46	-24	-47	-30	-60	-32	-57	-18	-60
9.....	-40	-61	-39	-59	-40	-59	-38	-61	-35	-56	-28	-48	-28	-46	-26	-43	-27	-54	-31	-54	-35	-60	-36	-62	-26	-62
10.....	-46	-66	-47	-62	-44	-63	-43	-64	-42	-61	-38	-56	-36	-50	-34	-52	-34	-56	-38	-58	-40	-63	-44	-66	-34	-66
11.....	-46	-69	-47	-68	-46	-65	-42	-66	-44	-62	-41	-59	-42	-58	-42	-56	-41	-59	-45	-63	-43	-66	-47	-66	-41	-69
12.....	-47	-73	-43	-67	-46	-70	-43	-66	-43	-66	-44	-62	-46	-62	-44	-63	-45	-63	-47	-66	-46	-70	-47	-69	-43	-73
13.....	-47	-75	-44	-64	-47	-69	-44	-68	-45	-68	-42	-66	-46	-65	-48	-65	-47	-66	-47	-69	-44	-70	-46	-69	-42	-75
14.....	-47	-66	-41	-62	-44	-63	-42	-66	-46	-68	-46	-67	-48	-68	-50	-65	-47	-67	-47	-74	-48	-66	-48	-65	-41	-74
15.....	-49	-68	-45	-62	-48	-62	-49	-62	-48	-62	-49	-64	-49	-65	-51	-67	-50	-65	-48	-67	-49	-71	-49	-63	-45	-71
16.....	-50	-69	-46	-66	-48	-63	-50	-60	-49	-63	-54	-60	-50	-66	-51	-65	-50	-64	-50	-69	-51	-74	-51	-64	-46	-74

Period of Record: Surface— 54 years

Elevation: 1128 Meters, M. S. L.

Upper Air—Aug. 1940 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

GREENSBORO, N. C.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	26	-22	27	-20	34	-12	34	-7	38	1	40	6	40	9	38	9	37	2	35	-5	27	-12	25	-18	40	-22
1.....	16	-11	14	-14	20	-7	20	-5	22	2	26	7	26	16	24	14	24	9	21	2	17	-10	17	-12	26	-14
2.....	10	-15	10	-15	11	-16	12	-14	15	-4	18	3	18	8	18	8	16	5	15	-3	11	-15	11	-15	18	-16
3.....	3	-16	5	-16	6	-22	7	-20	10	-11	12	-2	11	1	11	3	11	-1	9	-9	6	-16	9	-19	12	-22
4.....	-1	-21	-2	-20	4	-23	1	-26	2	-18	6	-4	5	-3	6	-4	8	-4	3	-12	1	-23	1	-26	8	-26
5.....	-8	-27	-6	-24	-6	-23	-5	-31	-4	-26	-2	-8	-1	-9	0	-8	0	-10	-1	-16	-6	-28	-4	-29	0	-31
6.....	-15	-34	-13	-31	-12	-29	-12	-35	-10	-33	-8	-15	-6	-16	-5	-14	-5	-18	-8	-23	-13	-35	-11	-35	-5	-35
7.....	-22	-40	-20	-39	-19	-36	-17	-40	-17	-40	-14	-23	-11	-24	-12	-21	-12	-26	-15	-32	-20	-41	-16	-44	-11	-44
8.....	-29	-45	-26	-45	-26	-42	-24	-45	-24	-47	-21	-31	-18	-32	-18	-29	-18	-32	-21	-40	-28	-47	-23	-46	-18	-47
9.....	-36	-52	-36	-53	-32	-48	-31	-52	-32	-51	-29	-40	-24	-40	-24	-36	-25	-40	-27	-47	-35	-49	-32	-51	-24	-53
10.....	-41	-58	-44	-54	-36	-54	-39	-55	-40	-56	-36	-49	-31	-50	-32	-42	-32	-46	-35	-54	-38	-56	-39	-56	-31	-58
11.....	-44	-62	-46	-60	-42	-62	-45	-62	-45	-61	-43	-54	-39	-52	-39	-49	-39	-54	-43	-59	-44	-62	-43	-62	-39	-62
12.....	-49	-64	-49	-67	-44	-64	-47	-65	-47	-66	-51	-59	-47	-59	-47	-57	-47	-60	-49	-65	-51	-68	-46	-67	-44	-68
13.....	-52	-67	-51	-66	-48	-65	-50	-67	-49	-70	-55	-65	-55	-67	-52	-63	-54	-66	-54	-66	-54	-69	-47	-68	-47	-70
14.....	-54	-67	-55	-66	-51	-67	-53	-70	-51	-71	-57	-69	-56	-73	-57	-68	-58	-69	-58	-70	-55	-73	-49	-73	-49	-73
15.....	-56	-69	-58	-69	-51	-70	-58	-69	-53	-68	-59	-72	-60	-73	-61	-72	-61	-74	-61	-72	-57	-68	-52	-75	-51	-75
16.....	-59	-69	-60	-67	-52	-70	-58	-67	-55	-66	-61	-73	-64	-73	-62	-73	-65	-75	-64	-74	-65	-65	-55	-73	-52	-75

Period of Record: Surface— 54 years

Elevation: 273 Meters, M. S. L.

Upper Air— Nov. 1943 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

HATTERAS, N. C.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	23	-12	23	-12	28	-4	29	-1	31	6	35	12	35	16	33	16	33	10	32	5	26	-3	24	-13	35	-13
1.....	16	-8	17	-10	21	-5	20	-6	22	7	25	8	25	14	23	13	24	13	19	-1	16	-2	17	-10	25	-10
2.....	9	-14	10	-14	16	-12	14	-14	15	-2	17	3	18	8	17	8	17	6	14	-8	14	-9	11	-10	18	-14
3.....	4	-15	6	-14	10	-11	9	-19	9	-11	11	1	12	4	12	3	12	1	9	-13	8	-12	8	-15	12	-19
4.....	0	-20	0	-20	1	-12	3	-20	2	-15	6	-4	6	-1	6	-4	10	-1	7	-20	5	-22	1	-21	10	-22
5.....	-8	-28	-6	-23	-5	-18	-3	-26	-4	-20	-2	-10	0	-7	0	-7	4	-7	2	-28	-3	-28	-4	-27	4	-28
6.....	-15	-34	-13	-30	-11	-25	-10	-31	-10	-26	-7	-17	-5	-14	-5	-12	-3	-14	-5	-30	-10	-29	-10	-31	-3	-34
7.....	-22	-40	-19	-36	-18	-32	-18	-39	-16	-35	-11	-25	-12	-21	-10	-19	-10	-22	-10	-39	-18	-36	-18	-37	-10	-40
8.....	-29	-44	-27	-43	-26	-38	-26	-44	-23	-42	-19	-33	-18	-27	-17	-27	-16	-29	-16	-38	-25	-43	-25	-42	-16	-44
9.....	-32	-46	-35	-52	-33	-47	-33	-48	-31	-49	-26	-40	-25	-33	-24	-35	-24	-38	-24	-46	-33	-50	-30	-48	-24	-52
10.....	-36	-54	-42	-56	-41	-54	-41	-54	-39	-52	-34	-48	-32	-41	-33	-42	-32	-45	-31	-52	-40	-55	-37	-54	-31	-56
11.....	-41	-60	-48	-60	-48	-61	-46	-60	-46	-59	-42	-54	-40	-49	-40	-48	-38	-54	-40	-56	-47	-61	-43	-62	-38	-62
12.....	-43	-66	-48	-64	-48	-64	-52	-66	-50	-63	-46	-59	-48	-56	-45	-56	-46	-61	-48	-60	-49	-64	-46	-66	-43	-66
13.....	-49	-65	-49	-69	-50	-65	-55	-66	-51	-69	-52	-65	-56	-64	-50	-62	-54	-64	-54	-66	-52	-68	-49	-69	-49	-69
14.....	-54	-67	-52	-64	-52	-65	-57	-67	-53	-66	-56	-68	-62	-68	-53	-68	-60	-70	-60	-69	-56	-66	-53	-72	-52	-72
15.....	-57	-64	-55	-66	-60	-68	-62	-64	-56	-68	-58	-70	-64	-74	-57	-69	-62	-74	-65	-71	-60	-68	-58	-71	-55	-74
16.....	-58	-68	-62	-68	-64	-71	-65	-65	-56	-60	-63	-70	-67	-73	-60	-71	-69	-73	--	--	-61	-68	-61	-71	-56	-73

Period of Record: Surface— 71 years

Elevation: 3 Meters, M. S. L.

Upper Air— Nov. 1943–Dec. 1945

Maximum and Minimum Temperatures, (°C.)

HUNTINGTON, W. VA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	27	-24	27	-31	33	-15	34	-9	37	-1	41	6	42	10	42	9	39	-1	35	-5	30	-16	23	-26	42	-31
1.....	20	-22	14	-19	19	-18	23	-8	23	0	26	4	28	11	31	13	26	2	23	-5	18	-10	15	-18	31	-22
2.....	14	-22	8	-26	12	-22	14	-16	17	-5	20	-3	23	5	22	4	19	-7	16	-11	12	-16	12	-19	23	-26
3.....	6	-27	2	-28	7	-26	7	-24	10	-13	16	-1	15	-2	16	2	11	-7	12	-15	9	-23	8	-26	16	-28
4.....	-1	-32	-4	-32	1	-31	1	-30	5	-18	8	-5	8	-4	9	-3	8	-9	6	-21	4	-27	2	-33	9	-33
5.....	-7	-36	-8	-39	-6	-36	-5	-36	-1	-26	0	-10	3	-10	4	-8	2	-13	1	-24	-2	-34	-4	-39	4	-39
6.....	-14	-41	-14	-41	-13	-41	-12	-42	-9	-34	-6	-18	-2	-18	-1	-16	-4	-20	-5	-29	-9	-40	-12	-43	-1	-43
7.....	-22	-43	-20	-44	-20	-41	-18	-49	-15	-43	-12	-25	-9	-26	-8	-24	-10	-26	-11	-36	-17	-45	-17	-45	-8	-49
8.....	-29	-50	-26	-50	-27	-47	-25	-45	-21	-48	-17	-32	-17	-34	-15	-32	-16	-33	-18	-40	-24	-45	-23	-50	-15	-50
9.....	-36	-56	-38	-58	-35	-53	-32	-52	-29	-50	-25	-40	-23	-42	-21	-39	-23	-42	-25	-47	-32	-53	-30	-57	-21	-58
10.....	-43	-59	-38	-59	-42	-58	-40	-56	-36	-54	-33	-50	-30	-50	-29	-46	-30	-49	-33	-53	-37	-57	-38	-58	-29	-59
11.....	-44	-62	-40	-63	-41	-63	-43	-63	-44	-60	-40	-56	-38	-55	-36	-51	-39	-55	-38	-59	-39	-63	-44	-63	-36	-63
12.....	-46	-66	-42	-66	-45	-69	-44	-68	-46	-66	-46	-60	-45	-61	-44	-58	-46	-61	-43	-64	-42	-66	-45	-68	-42	-69
13.....	-48	-65	-44	-68	-47	-71	-45	-71	-50	-70	-51	-66	-52	-66	-51	-63	-52	-65	-46	-66	-44	-68	-47	-69	-44	-71
14.....	-51	-66	-46	-62	-48	-68	-47	-71	-51	-72	-56	-74	-54	-70	-55	-71	-55	-71	-50	-70	-47	-74	-48	-69	-46	-74
15.....	-52	-66	-48	-62	-47	-68	-48	-70	-54	-72	-57	-72	-56	-73	-57	-77	-56	-76	-55	-78	-50	-69	-50	-69	-47	-78
16.....	-57	-68	-52	-64	-47	-68	-47	-70	-55	-70	-57	-74	-58	-74	-59	-76	-58	-80	-55	-78	-54	-70	-53	-67	-47	-80

Period of Record: Surface— 45 years

Elevation: 172 Meters, M. S. L.

Upper Air— July 1941-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

INTERNATIONAL FALLS, MINN.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	10	-45	11	-43	19	-38	30	-18	33	-13	38	-3	39	-1	36	-3	36	-6	31	-13	21	-32	11	-40	39	-45
1.....	6	-37	6	-29	14	-30	12	-15	22	-10	24	-1	25	6	27	9	24	-5	18	-9	15	-20	4	-30	27	-37
2.....	4	-37	5	-30	12	-32	8	-19	15	-18	20	-6	20	0	19	1	20	-11	15	-16	8	-22	2	-31	20	-37
3.....	-1	-37	0	-34	4	-34	2	-23	7	-22	12	-10	13	-7	11	-4	13	-16	8	-22	2	-27	-1	-31	13	-37
4.....	-7	-42	-7	-39	-5	-40	-4	-30	1	-25	5	-13	5	-14	5	-10	4	-19	1	-28	-5	-33	-8	-38	5	-42
5.....	-14	-47	-14	-45	-12	-45	-11	-36	-5	-32	-2	-19	-2	-17	-2	-15	-2	-25	-4	-34	-10	-38	-14	-40	-2	-47
6.....	-21	-52	-22	-47	-18	-50	-18	-43	-11	-38	-8	-25	-8	-25	-7	-23	-8	-30	-11	-42	-17	-44	-22	-45	-7	-52
7.....	-28	-53	-29	-50	-27	-54	-24	-48	-18	-47	-14	-33	-15	-34	-13	-30	-14	-36	-20	-49	-25	-49	-28	-53	-13	-54
8.....	-36	-56	-36	-52	-34	-55	-32	-52	-25	-50	-21	-42	-22	-42	-19	-37	-21	-43	-27	-57	-32	-53	-35	-58	-19	-58
9.....	-44	-60	-42	-58	-41	-60	-39	-57	-33	-55	-28	-50	-28	-50	-25	-44	-29	-51	-34	-58	-40	-58	-41	-60	-25	-60
10.....	-44	-66	-43	-62	-44	-64	-42	-60	-40	-56	-35	-54	-36	-52	-33	-52	-37	-57	-38	-58	-44	-63	-42	-63	-33	-66
11.....	-43	-67	-42	-64	-41	-65	-42	-65	-41	-61	-39	-60	-42	-56	-40	-56	-39	-59	-38	-63	-45	-65	-43	-66	-38	-67
12.....	-44	-65	-42	-63	-42	-64	-44	-68	-42	-65	-43	-62	-44	-59	-44	-57	-42	-62	-43	-66	-46	-67	-43	-73	-42	-73
13.....	-48	-59	-42	-62	-45	-61	-43	-70	-44	-64	-45	-64	-44	-62	-47	-62	-45	-63	-44	-68	-46	-68	-45	-61	-42	-70
14.....	-48	-67	-42	-58	-46	-62	-46	-64	-46	-62	-47	-66	-48	-60	-50	-65	-47	-66	-45	-69	-47	-65	-46	-60	-42	-69
15.....	-51	-61	-41	-59	-46	-61	-48	-58	-48	-60	-49	-68	-48	-64	-52	-65	-48	-68	-47	-66	-48	-62	-46	-58	-41	-68
16.....	-54	-62	-46	-60	-46	-63	-45	-59	-50	-59	-50	-62	-49	-64	-54	-63	-49	-65	-50	-65	-50	-61	-47	-53	-45	-65

Period of Record: Surface— 30 years

Elevation: 343 Meters, M. S. L.

Upper Air— Oct. 1942–Dec. 1945

Maximum and Minimum Temperatures, (°C.)

JOLIET - CHICAGO, ILL.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	18	-29	20	-29	28	-24	33	-8	37	-3	39	2	41	9	39	8	38	-2	31	-10	26	-19	20	-31	41	-31
1.....	15	-30	16	-25	20	-23	21	-13	23	-5	28	1	29	9	27	9	29	-2	25	-8	17	-15	16	-21	29	-30
2.....	10	-27	10	-28	14	-26	15	-20	18	-8	26	-5	25	2	21	2	21	-11	17	-17	14	-20	12	-22	26	-28
3.....	6	-29	4	-28	7	-31	7	-23	13	-12	17	-4	17	-1	14	-2	14	-14	12	-17	8	-25	8	-26	17	-31
4.....	0	-35	-2	-37	-1	-38	5	-28	6	-19	8	-10	11	-8	10	-8	8	-15	6	-22	2	-30	5	-33	11	-38
5.....	-7	-42	-4	-44	-9	-40	-2	-34	0	-25	1	-15	4	-13	5	-16	1	-22	0	-30	-3	-36	-3	-38	5	-44
6.....	-14	-45	-19	-42	-15	-42	-10	-41	-8	-32	-5	-21	-1	-19	-3	-18	-4	-26	-5	-38	-13	-41	-9	-44	-1	-45
7.....	-23	-49	-26	-49	-22	-47	-17	-48	-15	-42	-10	-28	-8	-26	-9	-25	-10	-33	-11	-42	-19	-46	-16	-48	-8	-49
8.....	-30	-55	-33	-51	-30	-55	-25	-49	-21	-47	-16	-36	-14	-34	-15	-33	-16	-42	-21	-49	-26	-51	-22	-52	-14	-55
9.....	-38	-60	-40	-61	-36	-58	-32	-54	-28	-54	-23	-44	-21	-42	-22	-41	-23	-48	-28	-53	-34	-55	-30	-56	-21	-61
10.....	-39	-62	-41	-61	-44	-61	-39	-60	-36	-57	-30	-52	-28	-49	-29	-50	-31	-54	-35	-60	-40	-61	-38	-60	-28	-62
11.....	-37	-68	-41	-64	-44	-65	-43	-64	-44	-60	-39	-58	-34	-56	-36	-61	-37	-58	-41	-61	-42	-65	-41	-64	-34	-68
12.....	-39	-71	-43	-67	-46	-67	-44	-68	-45	-63	-46	-61	-39	-62	-44	-64	-45	-62	-46	-65	-44	-68	-44	-70	-39	-71
13.....	-45	-65	-44	-64	-47	-66	-46	-70	-47	-67	-50	-67	-42	-64	-49	-65	-48	-66	-48	-70	-45	-71	-44	-72	-42	-72
14.....	-47	-65	-46	-62	-50	-64	-49	-73	-48	-70	-52	-71	-45	-68	-51	-70	-52	-70	-51	-69	-46	-67	-46	-70	-45	-73
15.....	-51	-66	-48	-63	-51	-65	-51	-69	-48	-69	-55	-68	-48	-71	-53	-74	-53	-72	-53	-69	-48	-68	-48	-71	-48	-74
16.....	-52	-68	-49	-64	-53	-67	-51	-67	-48	-70	-56	-72	-50	-71	-53	-75	-54	-79	-55	-70	-53	-68	-51	-67	-48	-79

Period of Record: Surface— 75 years

Elevation: 178 Meters, M. S. L.

Upper Air— 1-5 Km., July 1931-June 1933
 July 1937-June 1939
 1-16 Km., July 1939-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

JUNEAU, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	12	-26	14	-26	16	-21	21	-11	27	-4	31	1	32	3	31	2	25	-2	19	-11	18	-18	16	-23	32	-26
1.....	7	-23	9	-25	6	-16	9	-13	14	-6	18	1	21	2	20	3	18	0	9	-10	6	-18	7	-23	21	-25
2.....	2	-32	5	-27	4	-20	2	-16	8	-14	10	-5	13	-5	12	-4	16	-7	4	-16	2	-21	2	-28	16	-32
3.....	-3	-28	-1	-26	0	-27	-3	-20	4	-22	3	-13	6	-9	7	-9	10	-14	0	-22	-4	-26	0	-25	10	-28
4.....	-9	-34	-7	-34	-7	-35	-9	-27	-2	-28	0	-19	2	-15	2	-16	4	-20	-5	-29	-9	-32	-6	-32	4	-35
5.....	-14	-42	-12	-41	-13	-44	-18	-35	-6	-33	-4	-28	-3	-23	-4	-24	-3	-26	-11	-38	-15	-39	-13	-40	-3	-44
6.....	-19	-48	-19	-44	-21	-50	-24	-43	-13	-40	-12	-33	-9	-30	-11	-32	-10	-33	-16	-46	-20	-46	-19	-49	-9	-50
7.....	-27	-56	-27	-52	-28	-56	-29	-51	-19	-47	-20	-39	-16	-38	-18	-40	-16	-40	-22	-51	-25	-54	-26	-53	-16	-56
8.....	-34	-61	-35	-57	-36	-60	-35	-56	-27	-51	-27	-46	-24	-44	-25	-49	-24	-48	-29	-59	-32	-59	-34	-57	-24	-61
9.....	-42	-65	-43	-59	-43	-60	-40	-61	-34	-57	-34	-52	-32	-50	-33	-54	-30	-52	-35	-59	-43	-60	-43	-65	-30	-65
10.....	-46	-68	-45	-65	-42	-63	-44	-61	-40	-60	-42	-58	-40	-55	-40	-56	-37	-60	-42	-62	-46	-62	-42	-66	-37	-68
11.....	-44	-68	-43	-68	-44	-68	-43	-66	-40	-62	-43	-61	-41	-59	-42	-62	-42	-60	-42	-64	-44	-68	-43	-65	-40	-68
12.....	-46	-68	-41	-68	-42	-68	-43	-70	-40	-64	-42	-61	-40	-61	-43	-65	-44	-61	-45	-65	-45	-66	-42	-73	-40	-73
13.....	-46	-68	-40	-63	-45	-63	-42	-61	-42	-68	-43	-59	-40	-64	-44	-67	-44	-68	-45	-67	-45	-56	-43	-71	-40	-71
14.....	-45	-66	-46	-60	-45	-64	-45	-59	-42	-67	-44	-55	-41	-63	-44	-62	-44	-68	-45	-64	-45	-56	-43	-63	-41	-68
15.....	-48	-67	-47	-58	-44	-63	-47	-57	-42	-62	-45	-55	-41	-60	-46	-58	-45	-68	-45	-63	-46	-57	-43	-62	-41	-68
16.....	-49	-69	-47	-54	-44	-57	-47	-58	-44	-60	-43	-55	-42	-58	-47	-57	-45	-69	-44	-60	-46	-57	-45	-62	-42	-69

Period of Record: Surface—65 years

Elevation:

6 Meters, M. S. L.

Upper Air—October 1939 - December 1945

Maximum and Minimum Temperatures, (°C.)

KETCHIKAN, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	16	-22	16	-17	21	-13	22	-11	34	-4	36	0	33	2	31	1	27	-2	22	-6	17	-12	16	-18	36	-22
1.....	8	-22	8	-12	10	-10	12	-7	18	-4	18	0	22	3	24	4	22	1	13	-6	8	-11	6	-12	24	-22
2.....	1	-24	8	-18	5	-18	9	-13	10	-12	11	-6	16	-3	14	-4	18	-5	9	-12	5	-16	8	-16	18	-24
3.....	-2	-27	2	-27	-1	-25	3	-18	6	-17	5	-12	11	-10	8	-9	12	-12	6	-18	0	-21	2	-24	12	-27
4.....	-8	-33	-4	-33	-8	-33	-4	-26	2	-24	-2	-18	5	-15	2	-16	6	-18	-1	-26	-7	-30	-6	-32	6	-33
5.....	-13	-39	-12	-39	-12	-39	-10	-35	-3	-32	-6	-25	0	-22	-3	-23	-2	-26	-7	-36	-11	-39	-12	-40	0	-40
6.....	-19	-46	-19	-45	-20	-46	-18	-42	-10	-39	-13	-33	-6	-30	-9	-30	-8	-34	-12	-44	-18	-48	-18	-48	-6	-48
7.....	-26	-53	-26	-50	-25	-54	-25	-51	-17	-47	-20	-41	-14	-37	-14	-38	-16	-42	-19	-52	-24	-52	-25	-53	-14	-54
8.....	-33	-59	-32	-56	-32	-59	-33	-53	-25	-52	-26	-46	-22	-45	-21	-47	-22	-48	-27	-57	-31	-59	-30	-59	-21	-59
9.....	-41	-64	-40	-61	-41	-59	-42	-58	-33	-59	-34	-51	-30	-50	-27	-49	-30	-51	-34	-59	-39	-64	-35	-62	-27	-64
10.....	-46	-67	-42	-63	-42	-62	-42	-61	-41	-60	-42	-56	-36	-54	-35	-56	-38	-57	-41	-60	-46	-61	-40	-64	-35	-67
11.....	-44	-69	-41	-68	-42	-65	-43	-64	-40	-62	-43	-60	-40	-59	-41	-61	-43	-62	-41	-63	-45	-65	-42	-71	-40	-71
12.....	-42	-71	-41	-69	-42	-68	-43	-70	-41	-65	-43	-61	-41	-60	-41	-63	-45	-64	-43	-65	-44	-69	-43	-73	-41	-73
13.....	-43	-65	-41	-68	-44	-63	-44	-70	-43	-67	-44	-61	-42	-63	-43	-64	-46	-66	-47	-66	-45	-65	-44	-70	-41	-70
14.....	-44	-66	-42	-62	-45	-60	-44	-62	-45	-63	-44	-57	-44	-62	-46	-58	-47	-62	-48	-71	-46	-62	-44	-67	-42	-71
15.....	-45	-68	-41	-60	-45	-59	-44	-60	-45	-61	-44	-56	-45	-58	-46	-59	-47	-66	-48	-67	-47	-60	-44	-62	-41	-68
16.....	-49	-68	-42	-58	-46	-59	-46	-60	-45	-59	-44	-55	-45	-57	-46	-59	-48	-68	-48	-63	-49	-58	-45	-61	-42	-68

Period of Record: Surface— 35 years

Elevation: 25 Meters, M. S. L.

Upper Air— Oct. 1940—Dec. 1945

Maximum and Minimum Temperatures, (°C.)

KOTZEBUE, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	2	-48	2	-46	4	-50	8	-42	18	-28	27	-7	28	-1	24	-3	19	-8	14	-27	3	-38	1	-45	28	-50
1.....	-1	-34	-2	-31	-3	-37	4	-31	10	-24	14	-4	14	1	13	-6	9	-7	2	-19	3	-31	1	-33	14	-37
2.....	-5	-32	-5	-32	-7	-39	-3	-30	4	-29	6	-8	8	-3	8	-12	4	-14	0	-23	-3	-30	-1	-36	8	-39
3.....	-9	-36	-10	-37	-12	-42	-8	-34	-3	-34	1	-12	4	-8	5	-19	1	-21	-4	-31	-6	-34	-7	-40	5	-42
4.....	-16	-43	-13	-43	-16	-45	-15	-39	-8	-39	-3	-18	-2	-15	-1	-25	-5	-29	-7	-38	-10	-41	-14	-43	-1	-45
5.....	-23	-51	-20	-48	-21	-50	-20	-44	-15	-42	-8	-25	-7	-22	-7	-30	-9	-34	-13	-44	-17	-46	-19	-46	-7	-51
6.....	-30	-56	-26	-53	-27	-53	-26	-49	-23	-41	-14	-33	-14	-30	-14	-35	-15	-40	-19	-49	-23	-49	-24	-50	-14	-56
7.....	-38	-58	-31	-53	-34	-56	-34	-53	-29	-43	-21	-40	-20	-39	-20	-43	-22	-45	-27	-55	-28	-57	-30	-56	-20	-58
8.....	-46	-59	-40	-58	-40	-60	-41	-57	-36	-52	-29	-47	-28	-44	-26	-47	-30	-53	-32	-56	-37	-59	-39	-62	-26	-62
9.....	-48	-62	-45	-61	-39	-60	-45	-60	-36	-57	-37	-54	-36	-49	-33	-52	-35	-57	-39	-60	-42	-61	-44	-65	-33	-65
10.....	-48	-66	-45	-64	-38	-64	-43	-62	-36	-60	-39	-59	-40	-55	-35	-56	-38	-60	-43	-61	-42	-66	-41	-67	-35	-67
11.....	-46	-61	-45	-62	-39	-66	-42	-62	-38	-60	-38	-60	-38	-57	-36	-58	-39	-61	-44	-59	-45	-67	-40	-74	-36	-74
12.....	-46	-59	-43	-58	-40	-64	-41	-56	-38	-60	-39	-59	-39	-60	-37	-58	-40	-60	-44	-58	-44	-64	-42	-70	-37	-70
13.....	-46	-61	-43	-59	-38	-61	-40	-52	-40	-56	-40	-54	-40	-58	-38	-55	-41	-59	-44	-55	-45	-62	-44	-66	-38	-66
14.....	-47	-61	-43	-59	-41	-61	-41	-51	-42	-54	-40	-52	-40	-52	-39	-52	-42	-58	-43	-56	-46	-60	-44	-64	-39	-64
15.....	-44	-62	-46	-54	-40	-62	-42	-51	-42	-53	-40	-50	-40	-51	-39	-51	-44	-58	-45	-59	-46	-53	-44	-64	-39	-64
16.....	---	---	-49	-54	-40	-65	-42	-51	-41	-52	-40	-50	-41	-50	-40	-50	-44	-58	-45	-54	-45	-54	-44	-61	-40	-65

Period of Record: Surface— 20 years

Elevation: 5 Meters, M. S. L.

Upper Air— Nov. 1942-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

LAKE CHARLES, LA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	29	-11	30	-16	34	-6	34	0	38	4	41	11	39	16	41	14	38	7	39	0	33	-7	29	-9	41	-16
1.....	23	-6	20	-4	21	-3	23	2	24	6	26	17	25	18	27	17	24	11	24	2	20	3	18	-6	27	-6
2.....	17	-5	16	-2	18	-5	17	0	19	1	24	12	22	12	23	12	19	7	19	-1	20	-1	17	-6	24	-6
3.....	12	-8	10	-6	14	-8	13	-3	15	-1	16	5	15	6	15	7	14	3	14	-2	14	-9	16	-10	16	-10
4.....	7	-13	3	-11	7	-14	6	-8	9	-8	9	-1	10	2	11	1	10	-2	8	-7	9	-13	9	-14	11	-14
5.....	-2	-21	-4	-17	0	-21	-2	-15	1	-14	4	-7	5	-4	4	-5	3	-6	2	-13	2	-17	0	-21	5	-21
6.....	-10	-27	-11	-22	-9	-29	-9	-22	-6	-21	-3	-14	-2	-10	-3	-11	-2	-13	-3	-20	-5	-24	-9	-27	-2	-29
7.....	-16	-34	-16	-32	-16	-34	-16	-29	-12	-31	-10	-20	-8	-16	-8	-18	-9	-19	-9	-28	-13	-29	-17	-31	-8	-34
8.....	-24	-41	-20	-40	-22	-38	-23	-37	-19	-38	-16	-27	-15	-22	-15	-25	-14	-27	-16	-37	-20	-36	-24	-36	-14	-41
9.....	-32	-49	-25	-44	-30	-46	-30	-44	-26	-45	-23	-34	-23	-30	-20	-33	-21	-35	-22	-45	-28	-44	-31	-44	-20	-49
10.....	-38	-52	-31	-52	-38	-51	-38	-52	-34	-51	-30	-41	-30	-38	-29	-42	-30	-43	-29	-49	-33	-50	-38	-54	-29	-54
11.....	-42	-58	-36	-55	-43	-58	-42	-58	-41	-56	-38	-49	-36	-47	-37	-52	-37	-50	-36	-55	-38	-57	-44	-58	-36	-58
12.....	-45	-65	-42	-64	-46	-66	-47	-65	-49	-64	-46	-56	-42	-57	-44	-62	-44	-58	-44	-62	-44	-62	-47	-67	-42	-67
13.....	-50	-70	-48	-68	-50	-68	-53	-70	-52	-68	-54	-65	-49	-66	-51	-67	-51	-65	-52	-69	-49	-66	-51	-71	-48	-71
14.....	-56	-72	-55	-69	-54	-69	-54	-70	-57	-73	-57	-68	-53	-69	-58	-76	-57	-73	-57	-71	-54	-70	-56	-71	-53	-76
15.....	-60	-75	-59	-72	-59	-71	-57	-73	-60	-73	-62	-73	-56	-75	-62	-74	-63	-79	-62	-78	-56	-72	-60	-75	-56	-79
16.....	-62	-81	-63	-74	-61	-74	-61	-71	-63	-78	-66	-76	-58	-76	-63	-78	-66	-78	-65	-82	-58	-74	-62	-76	-58	-82

Period of Record: Surface— 53 years

Elevation: 5 Meters, M. S. L.

Upper Air— Aug. 1941—Dec. 1945

Maximum and Minimum Temperatures, (°C.)

LAKEHURST, N. J.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	18	-19	14	-20	18	-12	21	-3	25	-2	29	0	30	4	28	4	26	-2	23	-4	22	-11	18	-23	30	-23
1.....	12	-18	16	-24	18	-19	22	-11	25	-2	26	4	28	9	26	5	26	0	26	-7	18	-11	15	-20	28	-24
2.....	9	-23	11	-28	12	-22	13	-17	17	-8	19	-1	21	3	20	1	20	-4	18	-10	14	-17	8	-27	21	-28
3.....	3	-32	4	-33	5	-26	9	-23	11	-14	15	-6	16	-3	14	-6	14	-9	12	-18	8	-26	4	-28	16	-33
4.....	-3	-36	-3	-39	-2	-31	1	-30	6	-22	9	-14	11	-9	9	-12	10	-16	9	-26	4	-29	-2	-35	11	-39
5.....	-10	-36	-9	-38	-9	-37	-6	-35	-1	-25	3	-18	4	-15	5	-18	3	-22	2	-25	-3	-32	-8	-40	5	-40
6.....	-16	-43	-15	-45	-16	-43	-13	-44	-9	-30	-5	-26	0	-21	-4	-25	-3	-29	-4	-32	-13	-37	-12	-44	0	-45
7.....	-22	-47	-22	-50	-22	-46	-19	-51	-15	-39	-10	-32	-8	-28	-10	-32	-9	-37	-10	-37	-18	-41	-19	-46	-8	-51
8.....	-30	-53	-30	-52	-30	-52	-27	-50	-20	-45	-17	-40	-16	-35	-16	-38	-14	-47	-18	-43	-25	-48	-26	-49	-14	-53
9.....	-37	-56	-38	-58	-38	-58	-34	-53	-29	-52	-22	-47	-20	-42	-22	-42	-22	-49	-26	-50	-33	-54	-34	-56	-20	-58
10.....	-34	-61	-39	-60	-41	-61	-38	-60	-36	-57	-27	-47	-27	-51	-28	-48	-30	-53	-34	-57	-39	-60	-39	-60	-27	-61
11.....	-39	-64	-39	-67	-42	-64	-41	-65	-44	-64	-35	-54	-36	-53	-33	-56	-37	-56	-40	-61	-39	-63	-42	-63	-33	-67
12.....	-43	-68	-40	-66	-45	-68	-43	-69	-44	-65	-42	-60	-44	-61	-41	-60	-45	-65	-46	-66	-43	-65	-46	-65	-40	-69
13.....	-46	-70	-41	-68	-46	-70	-44	-73	-46	-70	-46	-66	-47	-68	-48	-66	-49	-72	-50	-68	-47	-69	-49	-70	-41	-73
14.....	-48	-64	-44	-64	-48	-70	-47	-73	-49	-73	-49	-70	-48	-70	-49	-70	-50	-71	-52	-68	-51	-69	-50	-67	-44	-73
15.....	-50	-64	-47	-67	-49	-65	-51	-68	-50	-71	-52	-73	-50	-73	-51	-80	-51	-74	-55	-73	-54	-70	-50	-68	-47	-80
16.....	-52	-66	-50	-64	-50	-67	-52	-70	-52	-70	-53	-72	-51	-71	-53	-72	-51	-76	-54	-74	-53	-68	-51	-67	-50	-76

Period of Record: Surface— *10 years

Elevation: 39 Meters, M. S. L.

Upper Air— 1-4 Km., Oct. 1934-Sept. 1939
1-16 Km., Oct. 1939-Nov. 1944

*taken from 2300 E.S.T.
raobs only

Maximum and Minimum Temperatures, (°C.)

LITTLE ROCK, ARK.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	27	-22	31	-24	32	-12	34	-2	36	4	41	11	42	14	43	11	40	3	34	-3	29	-12	26	-15	43	-24
1.....	16	-9	18	-8	21	-4	20	1	23	4	25	14	28	16	26	16	26	10	22	1	18	-4	16	-10	28	-10
2.....	11	-10	12	-12	14	-10	14	-6	22	-2	20	8	24	10	18	10	20	4	16	-6	17	-7	10	-15	24	-15
3.....	7	-12	6	-12	7	-13	10	-7	14	-9	17	2	16	4	14	6	15	0	10	-10	10	-14	7	-18	17	-18
4.....	1	-16	0	-15	1	-16	5	-13	7	-13	10	-2	7	0	8	0	8	-6	4	-16	3	-20	2	-21	10	-21
5.....	-6	-23	-6	-22	-6	-21	-4	-18	-2	-21	2	-10	1	-7	2	-6	4	-12	-1	-19	-2	-27	-4	-26	4	-27
6.....	-14	-28	-14	-31	-13	-29	-10	-25	-9	-29	-4	-17	-4	-14	-4	-11	-5	-15	-6	-27	-10	-27	-10	-33	-4	-33
7.....	-22	-38	-19	-39	-20	-38	-16	-31	-16	-37	-11	-24	-10	-19	-10	-16	-9	-22	-12	-36	-18	-33	-17	-40	-9	-40
8.....	-29	-45	-29	-45	-28	-42	-22	-39	-24	-41	-18	-31	-17	-26	-16	-24	-16	-30	-19	-42	-25	-41	-23	-46	-16	-46
9.....	-35	-52	-36	-50	-34	-48	-29	-46	-30	-47	-27	-39	-24	-33	-22	-32	-23	-38	-26	-45	-33	-47	-29	-48	-22	-52
10.....	-38	-55	-43	-56	-37	-55	-35	-53	-38	-51	-34	-46	-31	-40	-30	-40	-31	-42	-33	-50	-41	-54	-38	-54	-30	-56
11.....	-44	-62	-50	-64	-41	-57	-42	-59	-45	-60	-41	-52	-40	-48	-37	-46	-39	-48	-40	-56	-45	-61	-42	-61	-37	-64
12.....	-49	-66	-50	-66	-45	-63	-48	-67	-49	-65	-48	-59	-47	-56	-44	-54	-46	-55	-47	-61	-48	-66	-45	-65	-44	-67
13.....	-53	-61	-53	-63	-50	-68	-51	-68	-51	-67	-55	-67	-54	-64	-49	-62	-50	-62	-52	-66	-54	-70	-49	-69	-49	-70
14.....	-57	-62	-56	-66	-53	-65	-55	-74	-54	-67	-57	-69	-60	-71	-54	-68	-54	-66	-54	-68	-55	-72	-52	-72	-52	-74
15.....	-60	-63	-59	-63	-57	-68	-59	-74	-56	-68	-60	-72	-61	-73	-60	-73	-56	-71	-56	-71	-55	-69	-57	-73	-55	-74
16.....	-62	-67	-62	-65	-62	-69	-60	-67	-60	-69	-62	-73	-65	-75	-62	-73	-56	-74	-57	-74	-57	-72	-61	-70	-56	-75

Period of Record: Surface— 66 years

Elevation: 79 Meters, M. S. L.

Upper Air— Oct. 1943—Dec. 1945

Maximum and Minimum Temperatures, (°C.)

LOUISVILLE, KY.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	25	-29	26	-26	31	-16	33	-6	37	1	39	6	42	12	41	8	39	-2	33	-5	26	-17	23	-22	42	-29
1.....	14	-21	15	-17	20	-13	20	-8	22	0	28	4	26	14	25	13	24	10	22	2	17	-10	8	-19	28	-21
2.....	9	-18	9	-16	13	-21	11	-17	18	-6	21	3	18	5	19	5	18	5	16	-6	12	-16	7	-21	21	-21
3.....	6	-19	4	-21	8	-25	7	-22	11	-11	15	1	12	2	13	3	12	1	8	-10	7	-24	3	-25	15	-25
4.....	1	-25	-3	-25	2	-27	0	-28	4	-18	7	-4	6	-4	7	-2	7	-4	5	-15	1	-28	0	-29	7	-29
5.....	-6	-28	-9	-31	-6	-34	-4	-34	-4	-26	1	-10	0	-10	2	-6	1	-10	-2	-20	-5	-33	-7	-35	2	-35
6.....	-13	-34	-15	-34	-13	-40	-11	-41	-9	-34	-6	-17	-5	-16	-5	-13	-6	-17	-8	-27	-12	-39	-13	-41	-5	-41
7.....	-23	-40	-23	-39	-19	-41	-19	-46	-15	-41	-12	-24	-12	-25	-10	-21	-12	-24	-15	-34	-19	-45	-20	-44	-10	-46
8.....	-30	-46	-31	-48	-26	-44	-27	-44	-22	-46	-19	-32	-17	-34	-17	-29	-19	-32	-20	-40	-25	-45	-26	-49	-17	-49
9.....	-38	-52	-38	-53	-34	-50	-34	-52	-29	-54	-27	-40	-25	-41	-24	-36	-26	-42	-28	-48	-34	-50	-32	-52	-24	-54
10.....	-45	-56	-46	-59	-42	-54	-42	-55	-36	-54	-34	-47	-31	-47	-32	-43	-33	-49	-32	-53	-39	-59	-41	-57	-31	-59
11.....	-50	-62	-50	-60	-46	-61	-43	-62	-43	-60	-42	-54	-39	-52	-39	-49	-41	-53	-39	-61	-41	-61	-46	-61	-39	-62
12.....	-47	-57	-49	-66	-48	-62	-54	-62	-46	-64	-46	-60	-47	-58	-48	-56	-46	-61	-46	-64	-47	-65	-44	-66	-44	-66
13.....	-48	-55	-51	-64	-53	-68	-54	-69	-49	-66	-54	-64	-53	-64	-52	-62	-52	-64	-48	-66	-51	-67	-44	-67	-44	-69
14.....	-53	-57	-54	-66	-55	-63	-56	-73	-50	-70	-56	-69	-53	-67	-56	-69	-56	-69	-50	-69	-53	-68	-46	-69	-46	-73
15.....	-56	-56	-51	-62	-58	-67	-63	-64	-53	-68	-57	-72	-56	-73	-58	-72	-59	-71	-57	-68	-55	-65	-46	-68	-46	-73
16.....	-58	-58	--	--	-63	-64	--	--	-58	-66	-60	-72	-55	-73	-59	-72	-61	-74	-58	-68	-59	-66	-57	-67	-55	-74

Period of Record: Surface— 73 years

Elevation: 165 Meters, M. S. L.

Upper Air— Nov. 1943—Dec. 1945

Maximum and Minimum Temperatures, (°C.)

MAZATLAN, MEXICO

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	23	18	21	18	22	17	23	16	26	22	30	23	31	24	30	24	30	24	29	25	28	19	24	19	31	16
1.....	24	13	23	12	24	10	26	17	28	19	28	18	27	20	26	18	27	19	29	19	25	16	23	15	29	10
2.....	18	7	18	3	21	4	21	12	22	15	23	15	23	14	21	15	21	13	22	14	21	8	18	10	23	3
3.....	11	1	11	-2	14	-1	15	5	18	7	18	9	17	9	16	9	15	8	14	7	13	2	12	4	18	-2
4.....	5	-3	6	-8	7	-6	7	-2	11	-1	11	3	12	2	10	2	9	2	7	2	6	-3	8	-4	12	-8
5.....	-2	-10	-1	-13	0	-14	2	-11	3	-7	8	-4	5	-4	3	-4	3	-4	1	-5	0	-10	2	-9	8	-14
6.....	-9	-17	-9	-18	-7	-21	-5	-19	-4	-13	-3	-10	-2	-13	-2	-9	-2	-10	-5	-12	-5	-15	-7	-17	-2	-21
7.....	-17	-24	-16	-26	-13	-30	-13	-26	-11	-22	-8	-18	-7	-16	-9	-16	-8	-16	-10	-18	-12	-24	-15	-26	-7	-30
8.....	-23	-32	-23	-34	-20	-34	-19	-32	-18	-30	-14	-25	-14	-22	-15	-23	-14	-25	-15	-27	-17	-31	-22	-33	-14	-34
9.....	-29	-40	-30	-40	-29	-41	-26	-40	-25	-37	-22	-32	-21	-30	-21	-30	-21	-32	-24	-33	-24	-39	-28	-40	-21	-41
10.....	-37	-46	-38	-46	-38	-48	-33	-48	-32	-44	-30	-38	-28	-38	-28	-38	-28	-39	-31	-41	-31	-46	-37	-48	-28	-48
11.....	-43	-54	-45	-55	-42	-53	-39	-52	-38	-50	-37	-46	-35	-48	-35	-46	-35	-48	-39	-49	-38	-53	-41	-55	-35	-55
12.....	-48	-63	-50	-59	-48	-61	-44	-60	-45	-58	-45	-55	-42	-57	-42	-55	-43	-57	-46	-57	-45	-61	-49	-63	-42	-63
13.....	-53	-67	-55	-64	-53	-62	-49	-64	-53	-64	-52	-62	-52	-61	-50	-63	-50	-66	-53	-65	-52	-67	-52	-69	-49	-69
14.....	-56	-70	-58	-65	-58	-67	-54	-68	-60	-70	-58	-70	-58	-68	-58	-72	-58	-70	-59	-73	-60	-71	-58	-73	-54	-73
15.....	-62	-73	-63	-69	-64	-76	-64	-73	-66	-76	-64	-77	-63	-76	-64	-79	-66	-80	-66	-77	-64	-78	-62	-75	-62	-80
16.....	-65	-75	-66	-76	-69	-78	-67	-76	-69	-79	-69	-81	-70	-80	-69	-80	-73	-85	-71	-84	-66	-78	-67	-78	-65	-85

Period of Record: Surface- *3 years

Elevation: 79 Meters, M. S. L.

Upper Air- March 1943-Dec. 1945

* taken from 2300 EST raobs only

Maximum and Minimum Temperatures, (°C.)

McGRATH, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	12	-47	13	-47	6	-41	15	-33	24	-19	32	-1	29	3	27	0	22	-8	16	-24	8	-39	7	-46	32	-47
1.....	2	-34	4	-33	2	-36	7	-21	15	-19	22	0	18	3	17	-1	17	-6	8	-18	4	-32	2	-30	22	-36
2.....	2	-34	1	-33	0	-40	0	-24	9	-28	13	-5	10	-3	12	-9	12	-10	0	-21	0	-33	0	-33	13	-40
3.....	-6	-33	-3	-38	-6	-41	-8	-28	3	-34	4	-13	4	-8	6	-12	6	-16	-4	-26	-3	-35	-6	-37	6	-41
4.....	-14	-40	-10	-39	-12	-44	-14	-33	-3	-39	-2	-17	0	-15	1	-18	0	-22	-8	-32	-9	-38	-11	-38	1	-44
5.....	-22	-43	-16	-42	-17	-48	-19	-39	-9	-37	-4	-25	-6	-22	-5	-24	-5	-30	-14	-37	-13	-42	-17	-44	-4	-48
6.....	-28	-48	-22	-48	-23	-50	-26	-46	-15	-42	-13	-31	-11	-31	-11	-30	-9	-37	-20	-44	-20	-47	-25	-51	-9	-51
7.....	-35	-54	-28	-53	-30	-57	-34	-51	-22	-49	-20	-40	-18	-40	-19	-38	-16	-46	-25	-50	-28	-54	-32	-57	-16	-57
8.....	-44	-60	-36	-57	-37	-60	-41	-55	-30	-51	-26	-47	-24	-42	-25	-45	-24	-52	-34	-56	-36	-59	-39	-58	-24	-60
9.....	-44	-62	-42	-59	-43	-64	-45	-61	-38	-55	-33	-53	-31	-49	-33	-52	-31	-55	-40	-60	-43	-62	-44	-65	-31	-65
10.....	-45	-67	-40	-64	-42	-63	-42	-61	-39	-58	-39	-59	-38	-56	-40	-57	-38	-60	-43	-61	-43	-62	-42	-62	-38	-67
11.....	-45	-71	-40	-64	-41	-64	-41	-63	-40	-60	-38	-59	-39	-59	-41	-58	-42	-59	-42	-64	-43	-65	-42	-65	-38	-71
12.....	-46	-68	-41	-64	-41	-64	-42	-58	-39	-63	-38	-61	-39	-60	-40	-61	-41	-62	-44	-68	-44	-67	-42	-61	-38	-68
13.....	-44	-65	-43	-56	-40	-58	-43	-57	-39	-64	-41	-56	-40	-59	-40	-62	-41	-63	-43	-54	-43	-64	-42	-59	-39	-65
14.....	-45	-59	-42	-55	-39	-57	-44	-56	-40	-61	-41	-52	-41	-57	-40	-59	-42	-60	-41	-54	-43	-62	-42	-59	-39	-62
15.....	-47	-60	-44	-54	-40	-56	-44	-55	-41	-57	-40	-52	-42	-52	-40	-54	-42	-62	-45	-54	-43	-57	-43	-59	-40	-62
16.....	-54	-60	-44	-54	-41	-52	-44	-55	-41	-56	-40	-51	-40	-52	-41	-54	-41	-60	-45	-54	-44	-56	-43	-52	-40	-60

Period of Record: Surface— 4 years

Elevation: 103 Meters, M. S. L.

Upper Air— April 1942-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

MEDFORD, OREG.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	20	-19	23	-11	30	-10	36	-6	38	-2	43	0	43	4	42	4	40	-2	36	-4	27	-11	22	-23	43	-23
1.....	14	-8	14	-3	18	-3	21	-1	26	-2	32	4	33	14	32	9	31	5	29	2	18	-1	14	-6	33	-8
2.....	11	-16	11	-13	12	-10	14	-9	19	-6	25	-2	25	6	24	0	22	-2	21	-5	15	-9	12	-14	25	-16
3.....	6	-19	6	-19	6	-18	8	-17	10	-14	16	-8	19	-1	16	-3	14	-7	12	-10	12	-16	7	-19	19	-19
4.....	0	-27	-1	-27	-1	-25	1	-26	5	-21	9	-15	11	-6	9	-9	7	-14	7	-17	3	-23	0	-25	11	-27
5.....	-5	-36	-8	-32	-8	-33	-6	-32	-2	-28	4	-21	6	-12	4	-15	1	-21	0	-24	-4	-30	-7	-32	6	-36
6.....	-13	-42	-15	-41	-14	-41	-14	-38	-9	-36	-2	-29	-2	-20	-3	-23	-4	-29	-6	-32	-11	-39	-12	-41	-2	-42
7.....	-21	-48	-22	-46	-20	-49	-20	-45	-16	-43	-8	-34	-10	-28	-10	-30	-12	-36	-13	-40	-19	-49	-20	-49	-8	-49
8.....	-29	-53	-30	-52	-29	-56	-27	-52	-24	-50	-16	-42	-16	-35	-18	-37	-19	-43	-19	-45	-25	-54	-28	-56	-16	-56
9.....	-37	-59	-38	-56	-37	-57	-35	-55	-31	-55	-24	-50	-22	-43	-25	-45	-27	-48	-28	-55	-32	-56	-36	-56	-22	-59
10.....	-44	-64	-43	-64	-44	-61	-42	-60	-39	-58	-31	-55	-29	-48	-32	-52	-34	-54	-33	-57	-35	-61	-43	-62	-29	-64
11.....	-46	-70	-44	-66	-45	-66	-41	-65	-42	-66	-39	-57	-34	-56	-40	-59	-40	-59	-42	-62	-41	-67	-46	-67	-34	-70
12.....	-44	-70	-44	-70	-47	-71	-46	-68	-43	-67	-43	-65	-39	-62	-43	-61	-43	-66	-45	-66	-46	-70	-47	-70	-39	-71
13.....	-46	-72	-46	-72	-48	-71	-48	-73	-44	-70	-44	-70	-45	-66	-45	-64	-46	-69	-48	-70	-50	-74	-48	-72	-44	-74
14.....	-49	-74	-47	-66	-49	-67	-48	-74	-45	-72	-47	-68	-49	-66	-49	-65	-48	-68	-49	-71	-52	-76	-48	-68	-45	-76
15.....	-50	-70	-48	-65	-50	-66	-50	-65	-49	-71	-49	-69	-51	-66	-52	-67	-51	-68	-52	-70	-55	-76	-49	-71	-48	-76
16.....	-51	-73	-52	-67	-49	-65	-51	-67	-49	-68	-50	-69	-52	-66	-52	-67	-52	-68	-52	-73	-55	-71	-50	-73	-49	-73

Period of Record: Surface— 35 years.

Elevation: 409 Meters, M. S. L.

Upper Air— Sept. 1939–Dec. 1945

Maximum and Minimum Temperatures, (°C.)

MIAMI, FLA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	29	-2	31	-3	33	1	34	7	34	10	34	16	36	19	36	19	35	17	34	11	31	2	33	-1	36	-3
1.....	20	1	20	3	26	2	22	8	25	12	24	16	26	13	25	19	25	15	24	11	22	5	21	7	26	1
2.....	17	-3	18	2	21	0	18	4	19	7	18	10	20	7	20	10	19	10	19	5	17	3	16	2	21	-3
3.....	13	-3	14	-2	15	-5	12	-2	13	2	14	6	16	2	15	5	17	6	16	3	13	1	12	-3	17	-5
4.....	7	-7	7	-8	6	-12	7	-5	7	-3	6	-1	11	-2	11	0	14	0	10	-2	8	-4	8	-7	14	-12
5.....	0	-13	2	-13	1	-18	2	-11	3	-9	2	-6	6	-8	5	-4	6	-6	4	-9	3	-11	0	-12	6	-18
6.....	-7	-20	-6	-21	-6	-26	-5	-17	-4	-16	-3	-12	0	-14	0	-10	-1	-12	0	-17	-3	-19	-6	-18	0	-26
7.....	-14	-27	-13	-30	-12	-35	-12	-24	-10	-23	-9	-19	-4	-19	-5	-17	-8	-19	-6	-22	-9	-28	-12	-26	-4	-35
8.....	-22	-34	-21	-35	-19	-39	-18	-32	-17	-31	-15	-27	-10	-26	-11	-24	-14	-27	-12	-29	-17	-36	-20	-33	-10	-39
9.....	-29	-41	-29	-44	-26	-41	-23	-40	-25	-40	-22	-35	-16	-35	-17	-32	-20	-34	-20	-38	-24	-43	-26	-41	-16	-44
10.....	-34	-50	-36	-49	-33	-49	-31	-47	-32	-48	-29	-44	-22	-43	-23	-41	-27	-42	-27	-48	-31	-48	-33	-50	-22	-50
11.....	-39	-57	-43	-55	-40	-55	-41	-55	-40	-56	-36	-52	-30	-53	-31	-49	-34	-49	-34	-55	-39	-53	-41	-57	-30	-57
12.....	-44	-63	-47	-65	-46	-60	-47	-62	-47	-64	-43	-61	-37	-62	-38	-57	-42	-58	-40	-63	-46	-61	-46	-65	-37	-65
13.....	-51	-69	-50	-68	-51	-68	-52	-67	-54	-71	-50	-69	-43	-68	-45	-65	-50	-68	-46	-70	-54	-70	-52	-71	-43	-71
14.....	-55	-72	-54	-73	-56	-74	-56	-72	-57	-76	-56	-75	-50	-74	-52	-71	-58	-76	-52	-76	-60	-79	-57	-80	-50	-80
15.....	-59	-77	-59	-77	-61	-76	-60	-79	-60	-75	-62	-79	-57	-75	-58	-75	-61	-78	-58	-82	-64	-83	-59	-84	-57	-84
16.....	-63	-84	-63	-80	-63	-80	-61	-78	-62	-76	-64	-78	-60	-76	-61	-76	-64	-80	-62	-81	-64	-84	-61	-84	-60	-84

Period of Record: Surface— 48 years

Elevation: 4 Meters, M. S. L.

Upper Air— 1-5 Km., Aug. 1936-June 1937
 1-16 Km., July 1939-July 1940
 1-16 Km., Nov. 1940-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

MONTGOMERY, ALA. (MAXWELL FIELD)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	27	-15	29	-21	32	-7	33	-1	37	6	41	9	42	16	39	14	41	7	36	-1	30	-8	27	-13	42	-21
1.....	19	-9	18	-12	21	-4	22	-3	24	9	27	15	27	18	26	18	24	12	23	0	19	-4	16	-11	27	-12
2.....	12	-15	12	-8	19	-7	16	-6	17	5	19	9	20	12	20	11	18	9	16	-7	16	-5	12	-8	20	-15
3.....	9	-18	11	-13	10	-11	9	-6	10	-1	15	3	13	6	13	6	13	2	12	-6	12	-9	8	-12	15	-18
4.....	4	-24	2	-14	5	-18	4	-11	4	-6	11	-2	8	0	7	1	8	-3	9	-12	6	-10	3	-14	11	-24
5.....	-2	-26	-6	-18	-4	-25	-2	-16	0	-14	4	-9	2	-5	2	-5	3	-9	1	-12	-1	-17	-3	-21	4	-26
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 67 years.

Elevation: 52 Meters, M. S. L.

Upper Air— July 1934—June 1938

Maximum and Minimum Temperatures, (°C.)

NASHVILLE - MURFREESBORO, TENN.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	26	-23	26	-25	32	-16	32	-4	36	2	38	6	41	12	41	11	40	3	33	-3	29	-13	24	-19	41	-25
1.....	18	-26	16	-19	25	-15	24	-7	25	-1	29	6	29	11	30	12	26	4	25	-5	19	-13	16	-18	30	-26
2.....	15	-18	14	-18	16	-18	17	-13	18	-5	22	5	23	4	22	6	20	-1	18	-15	13	-19	12	-23	23	-23
3.....	8	-25	7	-25	10	-18	9	-22	12	-13	18	1	15	2	15	2	14	-1	13	-14	10	-23	6	-24	18	-25
4.....	2	-29	2	-26	3	-26	5	-30	6	-18	9	-5	9	-3	10	-4	8	-7	8	-19	6	-25	0	-26	10	-30
5.....	-4	-37	-5	-32	-4	-32	0	-32	0	-25	3	-10	4	-11	5	-10	4	-16	2	-24	0	-32	-5	-31	5	-37
6.....	-11	-37	-13	-40	-12	-36	-10	-33	-6	-32	-2	-15	-1	-16	-1	-16	-3	-20	-5	-29	-4	-37	-11	-34	-1	-40
7.....	-18	-43	-19	-44	-18	-44	-15	-38	-13	-40	-8	-22	-6	-23	-7	-22	-9	-30	-11	-36	-11	-39	-17	-41	-6	-44
8.....	-26	-49	-26	-49	-24	-50	-22	-43	-19	-45	-15	-31	-14	-31	-13	-30	-16	-38	-18	-43	-19	-42	-24	-47	-13	-50
9.....	-33	-55	-33	-54	-31	-55	-30	-50	-26	-51	-22	-39	-20	-39	-20	-38	-23	-45	-26	-50	-26	-50	-32	-52	-20	-55
10.....	-36	-60	-39	-59	-38	-57	-38	-57	-34	-55	-30	-47	-27	-47	-28	-45	-30	-50	-32	-53	-33	-56	-39	-59	-27	-60
11.....	-39	-64	-40	-64	-41	-63	-44	-62	-42	-60	-38	-55	-36	-56	-36	-52	-37	-56	-39	-59	-42	-61	-41	-64	-36	-64
12.....	-45	-66	-44	-67	-44	-68	-44	-66	-47	-66	-44	-61	-44	-64	-43	-60	-44	-60	-45	-65	-45	-67	-43	-66	-43	-68
13.....	-49	-71	-46	-72	-46	-69	-48	-69	-49	-68	-50	-68	-50	-70	-48	-66	-48	-64	-50	-72	-47	-68	-47	-72	-46	-72
14.....	-48	-75	-50	-70	-50	-66	-51	-71	-50	-70	-55	-75	-53	-72	-53	-72	-52	-69	-53	-74	-49	-72	-50	-78	-48	-78
15.....	-45	-77	-53	-74	-52	-67	-53	-74	-53	-71	-57	-78	-55	-75	-58	-75	-56	-76	-55	-76	-50	-73	-48	-73	-45	-78
16.....	-53	-79	-53	-73	-53	-69	-54	-70	-53	-72	-58	-77	-56	-76	-59	-82	-57	-77	-56	-78	-51	-73	-52	-73	-51	-82

Period of Record: Surface— 75 years.

Elevation: 180 Meters, M. S. L.

Upper Air— 1-5 km. July 1934-June 1938
1-16 km. July 1938-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

NEW YORK, N. Y. (MITCHELL FIELD)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	20	-21	23	-26	27	-16	33	-11	35	1	36	7	39	12	39	11	38	-4	32	-3	24	-14	20	-25	39	-26
1.....	10	-20	11	-17	18	-14	21	-8	22	0	25	10	30	13	25	8	22	-2	19	-7	16	-10	11	-15	30	-20
2.....	8	-24	7	-21	12	-21	12	-11	15	-6	16	2	22	6	19	3	17	-4	16	-9	16	-14	8	-19	22	-24
3.....	3	-28	2	-25	5	-23	7	-20	8	-11	12	-3	14	0	13	-2	13	-7	10	-14	10	-21	3	-28	14	-28
4.....	-3	-32	-5	-29	0	-22	-1	-22	2	-17	5	-8	8	-2	9	-7	7	-9	7	-20	3	-31	-2	-31	9	-32
5.....																										
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface- 71 years.

Elevation: 29 Meters, M. S. L.

Upper Air- July 1934-June 1938

Maximum and Minimum Temperatures, (°C.)

NOME, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	8	-44	7	-41	7	-39	16	-34	19	-21	26	-7	29	-2	27	-5	19	-9	14	-20	10	-32	4	-41	29	-44
1.....	10	-30	-1	-26	-4	-30	2	-13	10	-13	16	-4	14	-1	16	2	10	-7	2	-14	-1	-20	-1	-28	16	-30
2.....	3	-30	-6	-31	-8	-30	-3	-17	3	-17	10	-6	9	-3	11	-2	4	-11	-3	-20	-1	-26	-6	-34	11	-34
3.....	-2	-32	-12	-35	-10	-34	-10	-22	1	-22	2	-11	4	-9	5	-7	0	-18	-7	-25	-4	-31	-12	-33	5	-35
4.....	-8	-37	-18	-35	-15	-38	-17	-29	-5	-28	-2	-17	1	-17	0	-13	-4	-26	-12	-31	-11	-38	-18	-36	1	-38
5.....	-15	-44	-26	-42	-19	-43	-22	-37	-11	-34	-11	-23	-4	-24	-7	-20	-9	-32	-17	-37	-18	-42	-24	-44	-4	-44
6.....	-22	-49	-32	-50	-25	-47	-30	-45	-17	-41	-16	-30	-9	-31	-13	-26	-16	-40	-24	-43	-24	-47	-31	-53	-9	-53
7.....	-30	-55	-37	-57	-35	-53	-37	-50	-25	-46	-23	-38	-16	-38	-20	-34	-22	-47	-31	-48	-32	-53	-39	-57	-16	-57
8.....	-38	-61	-38	-58	-39	-56	-44	-56	-32	-53	-31	-47	-24	-43	-26	-41	-28	-52	-38	-53	-40	-58	-43	-58	-24	-61
9.....	-45	-64	-39	-63	-43	-59	-47	-59	-41	-55	-39	-52	-31	-48	-33	-48	-35	-55	-40	-57	-46	-58	-47	-64	-31	-64
10.....	-46	-67	-39	-63	-43	-62	-45	-66	-43	-59	-42	-55	-37	-51	-39	-52	-42	-57	-40	-60	-46	-62	-48	-65	-37	-67
11.....	-44	-65	-41	-57	-42	-64	-45	-60	-41	-59	-38	-57	-38	-57	-41	-55	-43	-61	-41	-62	-45	-65	-47	-64	-38	-65
12.....	-42	-61	-42	-53	-44	-61	-45	-59	-41	-59	-41	-60	-39	-58	-41	-60	-44	-59	-43	-60	-44	-69	-47	-62	-39	-69
13.....	-42	-60	-41	-53	-43	-57	-44	-59	-42	-54	-40	-50	-40	-59	-42	-59	-45	-55	-42	-53	-43	-61	-47	-60	-40	-61
14.....	-41	-59	-42	-52	-45	-57	-43	-58	-42	-53	-40	-48	-41	-58	-42	-54	-43	-55	-44	-53	-43	-57	-46	-59	-40	-59
15.....	-41	-59	-43	-51	-44	-56	-44	-52	-42	-53	-42	-47	-41	-55	-42	-53	-46	-54	-44	-53	-42	-54	-46	-58	-41	-59
16.....	-41	-60	-43	-52	-45	-55	-45	-53	-42	-53	-42	-47	-41	-53	-42	-52	-45	-54	-44	-52	-42	-54	-46	-57	-41	-60

Period of Record: Surface— 38 years

Elevation: 14 Meters, M. S. L.

Upper Air— Sept. 1940–Sept. 1942

Maximum and Minimum Temperatures, (°C.)

NORFOLK, VA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	27	-15	28	-17	33	-10	35	-5	37	3	39	9	40	14	41	13	38	4	34	-1	28	-8	24	-15	41	-17
1.....	19	-16	18	-14	20	-13	23	-10	25	2	30	9	28	12	29	12	28	6	24	-2	18	-8	20	-14	30	-16
2.....	13	-18	14	-20	14	-20	15	-15	19	-6	21	2	21	6	23	3	20	0	17	-7	14	-14	17	-16	23	-20
3.....	8	-20	8	-22	8	-21	8	-23	14	-12	14	-1	13	0	17	-1	14	-8	13	-13	10	-18	10	-21	17	-23
4.....	3	-26	2	-27	3	-25	4	-29	8	-19	10	-6	8	-4	10	-8	9	-14	9	-18	3	-26	4	-24	10	-29
5.....	-4	-31	-4	-33	-5	-32	-3	-32	1	-23	3	-13	4	-10	4	-10	3	-22	0	-21	-2	-30	-3	-28	4	-33
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 75 years.

Elevation: 4 Meters, M. S. L.

Upper Air— July 1934–Nov. 1944

Maximum and Minimum Temperatures, (°C.)

NORTHWAY, ALASKA

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	-9	-49	9	-52	8	-43	17	-41	24	-16	28	0	28	3	26	-1	18	-6	16	-23	1	-44	-1	-52	28	-52
1.....	0	-34	9	-34	2	-34	10	-25	18	-10	20	0	20	5	20	4	15	-6	8	-17	0	-32	2	-30	20	-34
2.....	1	-27	2	-35	-4	-38	1	-30	9	-18	12	-7	12	0	12	-2	9	-11	3	-22	0	-29	0	-28	12	-38
3.....	-5	-32	-3	-35	-8	-37	-6	-30	2	-27	4	-15	4	-7	8	-8	0	-17	-4	-23	-7	-32	-5	-29	8	-37
4.....	-12	-39	-9	-38	-10	-43	-13	-34	-6	-35	-2	-22	-2	-13	2	-15	-6	-24	-10	-29	-12	-34	-10	-34	2	-43
5.....	-17	-42	-16	-43	-17	-50	-19	-40	-13	-41	-6	-30	-7	-19	-7	-22	-9	-31	-14	-36	-16	-40	-17	-40	-6	-50
6.....	-24	-46	-22	-44	-23	-52	-27	-45	-17	-43	-13	-39	-13	-26	-14	-30	-15	-37	-21	-44	-25	-46	-24	-47	-13	-52
7.....	-31	-53	-29	-51	-32	-53	-32	-50	-23	-47	-20	-44	-21	-34	-17	-37	-22	-44	-26	-50	-32	-52	-32	-56	-17	-56
8.....	-39	-59	-37	-57	-39	-58	-39	-56	-29	-53	-27	-48	-28	-42	-24	-44	-28	-50	-34	-55	-39	-59	-39	-58	-24	-59
9.....	-46	-61	-45	-62	-38	-60	-46	-59	-37	-55	-34	-53	-36	-50	-32	-52	-35	-57	-41	-59	-45	-60	-46	-61	-32	-62
10.....	-46	-62	-47	-65	-41	-66	-42	-62	-41	-61	-41	-56	-43	-58	-40	-57	-42	-59	-44	-65	-46	-65	-46	-67	-40	-67
11.....	-47	-62	-46	-68	-41	-72	-41	-64	-38	-62	-44	-61	-43	-59	-43	-62	-43	-61	-43	-63	-45	-59	-45	-65	-38	-72
12.....	-45	-58	-47	-68	-42	-68	-42	-57	-40	-62	-44	-58	-40	-60	-43	-63	-44	-65	-45	-65	-45	-55	-46	-59	-40	-68
13.....	-47	-56	-48	-59	-40	-65	-40	-55	-41	-58	-44	-61	-39	-58	-42	-61	-44	-65	-46	-58	-45	-55	-45	-60	-39	-65
14.....	-46	-54	-47	-58	-40	-64	-40	-54	-43	-56	-43	-54	-39	-55	-43	-58	-46	-62	-47	-58	-46	-53	-45	-52	-39	-64
15.....	-47	-51	-46	-58	-41	-65	-43	-54	-44	-54	-44	-53	-39	-54	-43	-56	-46	-60	-47	-60	-49	-53	-48	-54	-39	-65
16.....	--	--	-50	-59	-42	-67	-43	-54	-44	-54	-44	-53	-39	-52	-45	-54	-46	-55	-48	-58	-49	-54	-48	--	-39	-67

Period of Record: Surface— 3 years

Elevation: 524 Meters, M. S. L.

Upper Air— Feb. 1943–Dec. 1945

Maximum and Minimum Temperatures, (°C.)

OAKLAND, CALIF.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	22	-4	28	-4	29	0	29	-1	34	2	37	5	39	8	34	8	39	6	34	1	30	-3	22	-5	39	-5
1.....	18	-6	18	-3	18	-1	22	0	26	3	31	4	37	8	31	10	33	7	26	4	23	0	20	-2	37	-6
2.....	19	-10	14	-11	14	-8	15	-7	19	-2	24	-1	28	8	24	7	24	0	20	-4	19	-4	18	-10	28	-11
3.....	11	-16	7	-19	8	-16	9	-15	14	-8	18	-6	20	3	19	2	16	-6	14	-9	13	-12	12	-16	20	-19
4.....	4	-24	0	-27	0	-25	3	-23	9	-15	11	-11	10	-1	13	-5	10	-10	12	-13	6	-21	4	-22	13	-27
5.....	-2	-32	-6	-31	-7	-32	-4	-31	2	-23	3	-19	4	-10	7	-11	2	-18	3	-21	-2	-25	-3	-30	7	-32
6.....	-10	-38	-13	-38	-14	-36	-12	-36	-5	-31	-5	-26	-4	-18	-3	-18	-3	-27	-6	-28	-9	-33	-10	-35	-3	-38
7.....	-18	-42	-20	-46	-22	-44	-18	-44	-12	-40	-13	-33	-10	-25	-8	-26	-10	-34	-12	-36	-15	-40	-16	-43	-8	-46
8.....	-26	-48	-27	-51	-28	-47	-23	-47	-20	-44	-20	-41	-18	-34	-16	-33	-18	-39	-21	-44	-22	-45	-23	-47	-16	-51
9.....	-33	-54	-34	-56	-35	-55	-28	-52	-28	-49	-27	-46	-25	-42	-23	-42	-26	-45	-27	-50	-28	-50	-30	-55	-23	-56
10.....	-41	-61	-40	-62	-42	-64	-36	-58	-36	-53	-35	-52	-32	-47	-29	-48	-33	-53	-27	-54	-32	-58	-37	-60	-27	-64
11.....	-45	-68	-39	-65	-44	-64	-43	-62	-44	-58	-41	-60	-39	-53	-36	-55	-39	-58	-34	-59	-38	-64	-43	-64	-34	-68
12.....	-44	-70	-43	-73	-46	-68	-44	-66	-44	-66	-44	-63	-44	-60	-43	-61	-43	-64	-41	-65	-44	-68	-44	-68	-41	-73
13.....	-48	-68	-46	-74	-48	-72	-47	-75	-46	-69	-45	-66	-49	-64	-48	-64	-48	-66	-45	-70	-46	-76	-48	-72	-45	-76
14.....	-49	-70	-48	-71	-51	-68	-50	-78	-46	-72	-49	-71	-51	-68	-51	-69	-49	-66	-49	-70	-53	-74	-50	-71	-46	-78
15.....	-47	-73	-51	-67	-53	-68	-51	-76	-51	-71	-51	-71	-55	-72	-53	-70	-52	-69	-51	-75	-54	-71	-54	-76	-47	-76
16.....	-50	-69	-54	-70	-54	-69	-54	-73	-51	-72	-52	-71	-57	-73	-54	-72	-56	-69	-54	-74	-56	-73	-54	-74	-50	-74

Period of Record: Surface— 17 years

Elevation: 2 Meters, M. S. L.

Upper Air— 1-5 Km., Sept. 1936-June 1938

1-16 Km., July 1938-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

OGDEN, UTAH

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	16	-31	19	-31	26	-15	29	-14	33	-3	39	-2	41	2	39	1	36	-7	32	-9	24	-18	18	-29	41	-31
1.....	8	-11	5	-10	11	-11	18	-7	19	1	27	4	28	14	26	13	24	0	20	-6	14	-9	9	-13	28	-13
2.....	2	-17	-1	-17	2	-19	8	-16	11	-7	18	-4	18	4	17	7	15	-4	10	-13	10	-16	4	-20	18	-20
3.....	-4	-24	-6	-23	-6	-25	-2	-24	1	-16	8	-12	9	-1	9	1	7	-12	2	-20	1	-23	-2	-27	9	-27
4.....	-10	-31	-11	-30	-12	-34	-11	-32	-8	-24	-1	-18	2	-8	2	-7	0	-16	-5	-25	-8	-30	-9	-35	2	-35
5.....	-17	-40	-13	-39	-18	-41	-17	-41	-14	-32	-10	-25	-6	-16	-5	-16	-8	-24	-12	-31	-14	-37	-16	-44	-5	-44
6.....	-24	-48	-19	-46	-24	-44	-24	-46	-21	-41	-16	-31	-13	-24	-11	-24	-14	-32	-18	-39	-22	-43	-23	-46	-11	-48
7.....	-32	-53	-27	-50	-32	-52	-33	-51	-28	-43	-24	-38	-19	-32	-18	-30	-21	-39	-27	-46	-30	-49	-30	-53	-18	-53
8.....	-39	-54	-35	-57	-41	-56	-41	-54	-35	-51	-32	-47	-27	-40	-24	-38	-28	-45	-34	-52	-37	-56	-38	-57	-24	-57
9.....	-45	-59	-45	-62	-44	-61	-47	-59	-43	-58	-39	-54	-35	-46	-30	-45	-35	-51	-40	-54	-44	-61	-44	-59	-30	-62
10.....	-46	-64	-49	-64	-46	-62	-45	-66	-50	-59	-45	-58	-42	-51	-39	-54	-44	-55	-42	-59	-46	-63	-43	-65	-39	-66
11.....	-43	-70	-48	-70	-45	-66	-46	-68	-48	-65	-45	-63	-48	-57	-47	-57	-48	-62	-48	-67	-49	-68	-47	-70	-43	-70
12.....	-48	-69	-50	-70	-47	-68	-48	-69	-48	-70	-48	-67	-49	-63	-51	-64	-52	-65	-50	-68	-51	-74	-48	-71	-47	-74
13.....	-51	-68	-50	-65	-51	-65	-49	-63	-51	-70	-50	-71	-53	-66	-55	-66	-55	-67	-54	-69	-53	-68	-51	-72	-49	-72
14.....	-52	-67	-50	-62	-51	-63	-51	-65	-51	-67	-52	-66	-58	-72	-58	-68	-55	-70	-56	-69	-57	-68	-55	-72	-50	-72
15.....	-53	-69	-54	-62	-55	-63	-52	-65	-54	-66	-53	-63	-61	-69	-58	-70	-57	-67	-60	-71	-60	-69	-55	-69	-52	-71

Period of Record: Surface— 43 years

Elevation: 1355 Meters, M. S. L.

Upper Air— Oct. 1943–Dec. 1945

Maximum and Minimum Temperatures, (°C.)

OKLAHOMA CITY, OKLA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	28	-24	32	-27	36	-16	36	-7	37	1	42	8	43	13	45	9	41	2	36	-9	30	-13	26	-19	45	-27
1	24	-21	20	-17	24	-16	26	-9	27	2	31	10	33	14	36	12	30	4	27	-4	25	-10	22	-17	36	-21
2	17	-15	15	-15	19	-18	21	-10	23	-1	28	8	25	11	26	9	24	3	21	-3	19	-14	16	-15	28	-18
3	10	-21	8	-17	11	-16	16	-12	16	-10	20	2	17	6	19	6	18	-1	14	-10	14	-19	10	-18	20	-21
4	4	-31	4	-26	2	-25	9	-21	8	-14	11	-4	11	-1	12	-2	10	-7	8	-15	6	-24	4	-26	12	-31
5	-4	-31	-5	-32	-5	-31	1	-26	4	-19	4	-11	5	-9	5	-6	6	-13	1	-20	-1	-30	-2	-31	6	-32
6	-11	-38	-11	-37	-12	-37	-6	-32	-6	-25	-3	-18	-1	-17	-1	-13	-2	-20	-6	-27	-9	-36	-10	-38	-1	-38
7	-18	-43	-20	-45	-21	-41	-13	-40	-13	-32	-8	-25	-8	-24	-7	-21	-8	-28	-11	-29	-16	-42	-15	-43	-7	-45
8	-26	-48	-27	-48	-28	-47	-20	-47	-20	-40	-16	-33	-15	-32	-12	-27	-16	-34	-18	-36	-24	-48	-23	-46	-12	-48
9	-34	-54	-35	-53	-34	-52	-27	-53	-28	-48	-23	-43	-22	-39	-18	-34	-22	-42	-24	-44	-30	-50	-30	-51	-18	-54
10	-42	-60	-40	-58	-38	-58	-34	-59	-35	-51	-30	-53	-29	-48	-27	-43	-28	-50	-30	-52	-37	-59	-37	-57	-27	-60
11	-44	-64	-41	-64	-41	-65	-42	-63	-42	-60	-38	-62	-37	-57	-35	-51	-35	-58	-32	-58	-39	-63	-41	-63	-32	-65
12	-45	-68	-47	-68	-42	-69	-44	-66	-47	-66	-43	-68	-44	-65	-43	-59	-43	-64	-38	-64	-45	-67	-46	-69	-38	-69
13	-48	-69	-49	-71	-47	-71	-48	-71	-50	-69	-47	-68	-50	-70	-50	-66	-50	-69	-44	-71	-49	-72	-49	-76	-44	-76
14	-52	-71	-51	-69	-50	-70	-50	-72	-52	-72	-51	-72	-55	-73	-54	-72	-54	-71	-51	-77	-53	-70	-51	-72	-50	-77
15	-53	-73	-52	-68	-54	-75	-53	-70	-54	-70	-54	-77	-58	-80	-57	-75	-57	-73	-54	-75	-56	-75	-54	-75	-52	-80
16	-58	-77	-53	-72	-56	-77	-52	-70	-56	-70	-57	-78	-63	-80	-61	-76	-60	-77	-58	-78	-58	-82	-54	-75	-52	-82

Period of Record: Surface— 55 years

Elevation: 391 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-June 1938
 1-16 Km., July 1938-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

OMAHA, NEBR.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	21	-36	26	-32	33	-22	34	-14	39	-4	42	4	46	10	44	7	40	-1	36	-13	27	-26	22	-29	46	-36
1.....	14	-33	16	-30	22	-23	23	-13	28	-6	33	6	36	10	34	7	32	-1	26	-14	24	-20	17	-26	36	-33
2.....	11	-31	14	-30	16	-24	18	-16	22	-11	28	-2	28	6	28	3	27	-6	23	-16	16	-22	14	-25	28	-31
3.....	5	-32	9	-29	10	-26	12	-20	15	-15	19	-7	20	-2	19	-1	19	-10	15	-16	10	-26	11	-28	20	-32
4.....	-1	-35	1	-31	1	-31	3	-26	7	-16	11	-11	11	-4	11	-6	10	-15	8	-21	3	-33	4	-31	11	-35
5.....	-7	-40	-4	-38	-7	-37	-6	-31	2	-24	2	-19	4	-10	5	-12	5	-17	0	-25	-3	-37	-4	-37	5	-40
6.....	-14	-44	-16	-44	-15	-41	-13	-38	-5	-31	-4	-21	-2	-16	-1	-19	-3	-23	-7	-32	-11	-45	-10	-44	-1	-45
7.....	-22	-50	-24	-48	-22	-49	-20	-44	-13	-36	-11	-23	-8	-24	-8	-27	-10	-30	-14	-40	-20	-51	-18	-51	-8	-51
8.....	-29	-57	-31	-53	-29	-52	-26	-50	-22	-44	-17	-36	-14	-33	-15	-35	-16	-37	-21	-46	-27	-54	-24	-55	-14	-57
9.....	-38	-63	-40	-59	-37	-57	-34	-58	-30	-52	-23	-44	-20	-41	-19	-43	-23	-44	-26	-52	-35	-53	-31	-57	-19	-63
10.....	-40	-64	-43	-63	-43	-61	-41	-59	-37	-56	-30	-50	-27	-49	-29	-52	-30	-51	-32	-54	-41	-57	-38	-60	-27	-64
11.....	-41	-68	-43	-64	-42	-68	-44	-62	-44	-59	-37	-57	-34	-55	-36	-61	-37	-60	-37	-60	-44	-62	-43	-67	-34	-68
12.....	-46	-68	-43	-68	-43	-72	-44	-69	-46	-65	-44	-62	-42	-60	-43	-67	-44	-66	-42	-65	-47	-67	-43	-71	-42	-72
13.....	-47	-75	-44	-68	-45	-72	-47	-75	-47	-69	-48	-64	-48	-64	-48	-72	-50	-65	-48	-69	-47	-71	-45	-71	-44	-75
14.....	-48	-69	-45	-64	-45	-69	-48	-74	-49	-72	-50	-67	-53	-68	-52	-71	-50	-70	-52	-68	-47	-69	-47	-67	-45	-74
15.....	-52	-71	-47	-64	-47	-71	-52	-66	-51	-69	-52	-69	-55	-70	-55	-75	-51	-69	-53	-74	-47	-71	-48	-70	-47	-75
16.....	-54	-75	-49	-66	-48	-74	-53	-68	-52	-69	-55	-70	-57	-73	-57	-77	-53	-74	-55	-70	-53	-75	-48	-72	-48	-77

Period of Record: Surface— 73 years

Elevation: 308 Meters, M. S. L.

Upper Air— 1-5 Km., Aug. 1931-June 1938
 1-16 Km., July 1938-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

PEARL HARBOR, T. H.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	29	12	29	11	29	12	30	15	31	16	31	17	31	17	31	17	31	18	32	17	30	15	29	13	32	11
1.....	24	12	22	7	21	5	21	12	20	12	22	14	22	14	22	14	22	14	23	15	24	13	23	12	24	5
2.....	18	7	17	1	17	4	17	7	18	6	19	7	20	9	19	7	18	8	20	8	18	8	19	6	20	1
3.....	18	1	14	-2	13	-2	14	2	14	1	15	2	18	4	16	5	15	4	15	4	17	3	15	3	18	-2
4.....	11	-5	10	-9	9	-8	10	-3	10	-3	13	-4	11	-2	12	-1	12	-3	11	-2	11	-3	11	-6	13	-9
5.....	3	-10	5	-13	2	-14	4	-10	5	-6	8	-12	5	-6	7	-5	5	-8	7	-7	7	-7	6	-8	8	-14
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 52 years.

Elevation: 7 Meters, M. S. L.

Upper Air— July 1934-June 1942

Maximum and Minimum Temperatures, (°C.)

PENSACOLA, FLA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	26	-10	26	-14	31	-5	33	1	36	7	38	13	39	17	38	17	39	9	35	2	30	-4	26	-10	39	-14
1.....	19	-9	18	-7	23	-4	23	-1	24	12	26	13	26	14	29	13	24	6	24	0	21	-5	20	-12	29	-12
2.....	14	-11	14	-7	18	-6	17	-1	20	4	19	7	22	5	22	9	19	8	18	-4	18	-4	17	-6	22	-11
3.....	12	-14	10	-12	12	-12	14	-4	16	-2	16	-1	16	1	17	4	14	0	14	-8	13	-5	10	-9	17	-14
4.....	6	-19	5	-17	7	-18	9	-10	12	-6	10	-6	9	-1	13	-2	10	-6	10	-16	9	-12	7	-17	13	-19
5.....	-1	-20	-2	-23	0	-26	2	-19	8	-11	6	-11	3	-9	8	-7	4	-13	3	-24	2	-15	0	-18	8	-26
6.....	-11	-26	-8	-30	-5	-34	-8	-27	-4	-18	-2	-18	-3	-17	-2	-9	-3	-22	-4	-30	-5	-24	-7	-27	-1	-34
7.....	-18	-32	-12	-35	-15	-42	-15	-35	-10	-26	-9	-22	-10	-25	-9	-15	-10	-31	-9	-34	-12	-33	-13	-35	-5	-42
8.....	-26	-39	-18	-43	-25	-40	-22	-41	-15	-35	-16	-31	-16	-27	-16	-22	-16	-38	-16	-38	-20	-41	-20	-42	-11	-43
9.....	-32	-47	-28	-50	-32	-47	-28	-48	-22	-43	-22	-40	-23	-37	-22	-31	-22	-44	-24	-45	-27	-49	-26	-50	-18	-50
10.....	-38	-56	-37	-55	-36	-56	-33	-54	-29	-51	-28	-48	-30	-45	-30	-41	-31	-49	-31	-52	-34	-57	-32	-53	-25	-57
11.....	-44	-64	-40	-58	-38	-60	-43	-62	-39	-57	-36	-56	-37	-54	-37	-48	-40	-54	-39	-60	-40	-66	-40	-59	-33	-66
12.....	-43	-65	-41	-63	-41	-64	-50	-72	-46	-63	-44	-60	-43	-62	-45	-53	-46	-60	-45	-66	-50	-66	-43	-65	-41	-72
13.....	-46	-68	-49	-68	-44	-66	-54	-75	-52	-68	-52	-68	-51	-65	-53	-62	-52	-63	-52	-71	-55	-69	-46	-72	-44	-75
14.....	-51	-70	-56	-68	-46	-67	-56	-70	-55	-67	-58	-73	-55	-67	-60	-71	-60	-71	-59	-77	-60	-73	-48	-71	-46	-77
15.....	-61	-70	-62	-68	-60	-69	-61	-72	-59	-68	-61	-76	-59	-71	-65	-74	-66	-77	-63	-81	-62	-76	-56	-71	-56	-81
16.....	-64	-74	-65	-72	-64	-73	-63	-74	-61	-70	-63	-76	-62	-73	-67	-76	-67	-80	-65	-75	-63	-82	-59	-74	-59	-82

Period of Record: Surface— 66 years

Elevation: 24 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-Nov. 1939
 1-16 Km., Dec. 1939-Aug. 1943
 Aug. 1944 -Nov. 1944

Maximum and Minimum Temperatures, (°C.)

PHOENIX, ARIZ.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	29	-9	33	-4	35	-1	39	2	46	4	48	9	48	20	46	14	45	9	41	-2	36	-3	29	-6	48	-9
1.....	22	2	23	2	25	4	30	5	34	8	39	17	40	23	38	20	37	18	31	10	25	6	22	4	40	2
2.....	17	-6	15	-4	16	-4	22	-4	26	3	30	10	33	17	29	16	28	10	22	2	18	-2	16	-4	33	-6
3.....	11	-14	8	-14	9	-12	14	-12	16	-5	21	0	24	9	20	9	20	1	14	-6	12	-9	10	-12	24	-14
4.....	4	-20	2	-20	1	-20	6	-20	9	-10	12	-8	14	2	13	1	14	-7	9	-10	7	-17	4	-18	14	-20
5.....	-2	-27	-5	-26	-5	-29	0	-27	3	-17	5	-15	5	-4	6	-5	6	-14	3	-17	1	-22	-2	-26	6	-29
6.....	-9	-34	-12	-34	-13	-35	-8	-35	-4	-23	-2	-22	-3	-12	0	-11	-1	-22	-5	-25	-6	-29	-9	-35	0	-35
7.....	-18	-41	-17	-40	-20	-42	-15	-42	-12	-31	-9	-29	-8	-20	-6	-18	-8	-30	-11	-31	-13	-37	-16	-39	-6	-42
8.....	-26	-49	-25	-47	-26	-48	-23	-46	-20	-38	-17	-38	-15	-29	-14	-27	-15	-38	-19	-37	-20	-42	-23	-45	-14	-49
9.....	-32	-53	-34	-51	-34	-51	-30	-52	-27	-44	-24	-45	-22	-37	-20	-34	-23	-41	-24	-43	-28	-50	-31	-51	-20	-53
10.....	-37	-59	-36	-58	-40	-56	-38	-56	-36	-53	-32	-51	-30	-45	-26	-41	-29	-46	-31	-50	-35	-55	-37	-58	-26	-59
11.....	-40	-64	-42	-65	-42	-65	-42	-61	-42	-58	-39	-56	-36	-48	-34	-50	-37	-53	-38	-55	-41	-62	-40	-63	-34	-65
12.....	-46	-68	-47	-69	-45	-66	-42	-65	-43	-62	-45	-64	-44	-57	-42	-59	-44	-62	-43	-64	-46	-69	-42	-68	-42	-69
13.....	-45	-69	-48	-71	-49	-68	-45	-71	-46	-67	-47	-64	-51	-65	-51	-69	-50	-69	-46	-67	-50	-71	-47	-70	-45	-71
14.....	-49	-70	-51	-70	-52	-68	-49	-72	-49	-70	-50	-69	-55	-69	-57	-77	-54	-71	-50	-70	-53	-78	-52	-69	-49	-78
15.....	-52	-71	-52	-67	-55	-67	-52	-69	-53	-73	-54	-70	-57	-72	-60	-72	-59	-74	-53	-74	-55	-73	-53	-74	-52	-74
16.....	-55	-73	-53	-73	-57	-70	-54	-69	-54	-72	-53	-74	-60	-74	-60	-75	-62	-73	-56	-74	-57	-74	-55	-80	-53	-80

Period of Record: Surface— 50 years

Elevation: 339 Meters, M. S. L.

Upper Air— July 1939—Dec. 1945

Maximum and Minimum Temperatures, (°C.)

PITTSBURGH, PA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	24	-27	25	-29	29	-18	32	-12	35	-3	37	4	39	8	39	7	39	1	33	-7	26	-17	23	-23	39	-29
1.....	12	-18	16	-16	19	-15	19	-10	23	-1	26	2	24	11	26	10	24	4	19	-3	18	-11	10	-18	26	-18
2.....	7	-23	8	-22	11	-23	11	-16	16	-7	18	-6	17	4	18	2	17	-2	14	-9	13	-18	4	-23	18	-23
3.....	4	-25	1	-24	5	-28	5	-24	11	-14	16	-7	14	0	12	-4	11	-5	8	-14	6	-24	0	-26	16	-28
4.....	-3	-30	-4	-29	-2	-34	-2	-31	4	-20	9	-12	8	-7	8	-8	6	-9	2	-19	-1	-27	-3	-34	9	-34
5.....	-9	-36	-10	-36	-9	-39	-6	-36	-3	-28	2	-17	1	-11	4	-14	2	-13	-2	-26	-4	-34	-10	-38	4	-39
6.....	-16	-41	-15	-41	-14	-42	-13	-44	-8	-36	-4	-22	-4	-18	-2	-20	-6	-21	-8	-33	-12	-40	-15	-43	-2	-44
7.....	-24	-45	-22	-45	-22	-44	-18	-50	-14	-44	-10	-28	-10	-25	-10	-27	-13	-28	-15	-37	-18	-44	-20	-46	-10	-50
8.....	-32	-48	-28	-49	-28	-48	-25	-48	-22	-48	-17	-36	-16	-32	-15	-34	-19	-36	-23	-43	-26	-46	-27	-49	-15	-49
9.....	-40	-53	-36	-54	-36	-56	-32	-52	-29	-48	-24	-43	-23	-40	-21	-40	-26	-43	-27	-48	-32	-52	-34	-54	-21	-56
10.....	-45	-59	-45	-57	-42	-57	-39	-57	-37	-54	-30	-50	-30	-48	-28	-47	-32	-51	-33	-55	-39	-59	-41	-58	-28	-59
11.....	-50	-62	-47	-64	-42	-62	-41	-63	-44	-60	-40	-55	-37	-54	-36	-52	-39	-54	-37	-58	-43	-62	-46	-63	-36	-64
12.....	-48	-64	-47	-64	-44	-65	-45	-65	-45	-66	-44	-59	-45	-59	-44	-56	-45	-59	-42	-66	-45	-65	-46	-69	-42	-69
13.....	-50	-63	-50	-60	-47	-67	-47	-68	-46	-69	-48	-65	-48	-62	-49	-64	-49	-63	-48	-64	-47	-68	-47	-66	-46	-69
14.....	-53	-61	-53	-59	-51	-61	-49	-72	-48	-71	-52	-69	-53	-66	-52	-67	-53	-68	-49	-64	-48	-69	-50	-68	-48	-72
15.....	-52	-59	-54	-60	-51	-63	-51	-67	-50	-67	-52	-73	-55	-71	-55	-69	-56	-70	-52	-67	-50	-65	-54	-68	-50	-73
16.....	-55	-58	--	--	-57	-66	-54	-64	-51	-66	-53	-71	-55	-72	-56	-73	-58	-72	-54	-70	-52	-66	-52	-67	-51	-73

Period of Record: Surface— 71 years

Elevation: 382 Meters, M. S. L.

Upper Air— *May 1943–Dec. 1945

*No data for September 1943.

Maximum and Minimum Temperatures, (°C.)

PORTLAND, MAINE

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface.....	18	-28	14	-39	28	-23	32	-13	36	-3	36	1	39	6	37	7	36	-5	29	-7	23	-21	18	-29	39	-39
1.....	5	-24	9	-28	17	-20	21	-16	23	-5	28	0	24	8	27	4	24	0	20	-9	16	-15	14	-27	28	-28
2.....	5	-28	3	-28	9	-26	14	-17	15	-13	20	-6	17	2	20	-5	18	-6	15	-18	11	-15	8	-24	20	-28
3.....	1	-32	-1	-33	2	-33	5	-22	8	-15	14	-9	10	-5	12	-7	13	-10	9	-20	4	-23	4	-28	14	-33
4.....	-7	-35	-7	-39	-3	-33	-1	-28	2	-22	6	-16	8	-10	6	-14	6	-14	8	-23	-2	-30	0	-33	8	-39
5.....	-11	-39	-13	-43	-10	-37	-8	-35	-2	-27	0	-22	2	-17	3	-20	1	-19	2	-28	-6	-35	-6	-39	3	-43
6.....	-16	-46	-19	-46	-16	-44	-13	-42	-10	-35	-5	-30	-4	-24	-2	-28	-3	-26	-6	-34	-12	-41	-12	-47	-2	-47
7.....	-23	-52	-25	-50	-23	-48	-20	-47	-17	-44	-11	-38	-10	-32	-9	-35	-10	-32	-15	-39	-18	-45	-18	-51	-9	-52
8.....	-31	-53	-32	-56	-30	-54	-28	-49	-24	-48	-19	-42	-16	-42	-16	-40	-17	-40	-22	-44	-26	-49	-24	-52	-16	-56
9.....	-39	-58	-38	-59	-36	-58	-35	-56	-31	-54	-24	-48	-23	-50	-22	-46	-25	-49	-28	-51	-34	-55	-32	-59	-22	-59
10.....	-39	-66	-39	-61	-37	-62	-40	-58	-38	-57	-30	-56	-30	-54	-30	-52	-32	-54	-32	-57	-37	-62	-38	-61	-30	-66
11.....	-39	-68	-41	-65	-40	-68	-43	-67	-40	-62	-38	-61	-39	-55	-38	-57	-40	-58	-42	-62	-39	-67	-39	-64	-38	-68
12.....	-40	-65	-40	-68	-41	-69	-43	-68	-42	-66	-42	-65	-44	-61	-42	-61	-46	-65	-44	-66	-44	-72	-40	-68	-40	-72
13.....	-44	-67	-42	-63	-44	-68	-44	-72	-45	-70	-44	-67	-45	-70	-43	-62	-49	-70	-46	-67	-47	-73	-42	-67	-42	-73
14.....	-48	-68	-45	-60	-46	-66	-47	-66	-46	-71	-46	-70	-47	-68	-48	-66	-51	-73	-49	-69	-49	-70	-44	-72	-44	-73
15.....	-50	-67	-47	-61	-49	-64	-49	-65	-44	-70	-50	-69	-50	-67	-49	-73	-52	-72	-52	-71	-50	-69	-45	-69	-44	-73
16.....	-49	-68	-49	-59	-51	-62	-50	-64	-51	-66	-52	-66	-50	-68	-50	-75	-51	-73	-54	-72	-54	-68	-48	-69	-48	-75

Period of Record: Surface— 70 years

Elevation: 20 Meters, M. S. L.

Upper Air— June-July 1940
Nov. 1940-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

RAPID CITY, S. DAK.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	21	-36	23	-37	29	-27	32	-22	36	-7	41	0	41	5	41	2	39	-9	36	-25	26	-25	26	-33	41	-37
1	8	-17	6	-24	14	-18	14	-8	21	0	26	5	28	11	29	9	28	0	19	-3	13	-16	7	-19	29	-24
2	8	-16	5	-20	11	-24	15	-14	18	-6	23	-1	25	6	26	4	26	-6	17	-8	14	-15	9	-22	26	-24
3	1	-21	1	-23	3	-24	5	-20	9	-12	14	-5	16	-2	17	-3	17	-8	11	-14	5	-20	6	-26	17	-26
4	-5	-27	-7	-31	-4	-32	-3	-25	1	-17	8	-12	8	-7	7	-5	7	-12	4	-19	-2	-27	-2	-33	8	-33
5	-11	-36	-11	-37	-12	-40	-10	-30	-6	-20	0	-19	0	-14	-1	-11	0	-19	-2	-24	-10	-35	-9	-39	0	-40
6	-17	-44	-17	-42	-18	-44	-18	-36	-12	-28	-7	-27	-5	-21	-6	-17	-8	-23	-9	-30	-16	-43	-16	-45	-5	-45
7	-24	-47	-24	-46	-26	-52	-26	-44	-19	-36	-14	-35	-13	-28	-12	-24	-12	-30	-17	-38	-23	-47	-21	-50	-12	-52
8	-30	-54	-35	-53	-34	-55	-34	-50	-26	-44	-22	-43	-18	-36	-18	-33	-19	-38	-25	-47	-31	-50	-28	-54	-18	-55
9	-38	-57	-43	-59	-42	-57	-42	-58	-33	-52	-30	-48	-24	-43	-24	-42	-27	-46	-34	-55	-38	-57	-38	-59	-24	-59
10	-46	-62	-48	-61	-43	-60	-48	-62	-40	-56	-37	-53	-30	-50	-31	-46	-34	-54	-42	-56	-46	-64	-46	-62	-30	-64
11	-50	-65	-49	-65	-44	-62	-46	-66	-43	-60	-41	-58	-37	-54	-39	-51	-41	-58	-44	-60	-46	-65	-45	-66	-37	-66
12	-49	-70	-50	-68	-44	-67	-46	-68	-49	-65	-45	-64	-45	-60	-46	-56	-47	-62	-48	-67	-49	-69	-45	-67	-44	-70
13	-53	-71	-51	-60	-42	-62	-44	-63	-50	-68	-46	-62	-51	-64	-48	-61	-48	-68	-51	-65	-50	-69	-45	-65	-42	-71
14	-57	-64	-51	-57	-49	-62	-48	-61	-51	-61	-48	-68	-51	-64	-51	-65	-49	-65	-52	-67	-51	-65	-50	-62	-48	-68
15	-58	-61	-52	-55	-52	-58	-50	-59	-54	-61	-52	-68	-55	-69	-53	-70	-55	-67	-56	-67	-54	-69	-53	-66	-50	-70
16	-	-	-	-	-54	-59	-52	-59	-54	-61	-53	-65	-58	-70	-54	-69	-55	-63	-58	-65	-54	-65	-56	-65	-52	-70

Period of Record: Surface— 58 years

Elevation: 981 Meters, M. S. L.

Upper Air— October 1943 - December 1945

Maximum and Minimum Temperatures, (°C.)

ST. LOUIS, MO.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
Surface...	23	-30	29	-28	33	-16	34	-7	36	0	40	7	43	13	42	11	39	2	34	-6	28	-16	24	-26	43	-30		
1.....	14	-24	15	-21	22	-20	22	-11	24	-3	29	3	32	13	32	10	28	1	24	-6	19	-11	16	-20	32	-24		
2.....	11	-22	13	-20	16	-26	19	-18	20	-10	22	1	24	5	24	6	22	-5	17	-11	16	-14	12	-20	24	-26		
3.....	6	-26	5	-22	8	-31	11	-21	13	-18	16	-2	17	3	17	1	16	-4	10	-13	10	-21	9	-24	17	-31		
4.....	0	-33	-2	-28	0	-28	5	-25	7	-18	10	-9	11	-3	9	-4	10	-10	5	-20	5	-26	3	-30	11	-33		
5.....	-6	-38	-9	-34	-5	-32	-4	-32	-1	-24	5	-14	3	-10	5	-10	3	-16	0	-26	0	-30	-4	-34	5	-38		
6.....	-12	-42	-15	-40	-14	-38	-12	-38	-6	-32	-4	-21	-1	-16	-2	-13	-2	-20	-6	-33	-9	-39	-9	-41	-1	-42		
7.....	-20	-47	-23	-45	-20	-46	-19	-42	-13	-40	-10	-28	-7	-24	-8	-21	-8	-27	-12	-40	-17	-46	-15	-46	-7	-47		
8.....	-29	-51	-31	-52	-29	-49	-25	-46	-19	-44	-16	-36	-13	-31	-14	-29	-17	-35	-19	-48	-25	-50	-22	-52	-13	-52		
9.....	-37	-57	-38	-59	-38	-57	-33	-53	-26	-50	-23	-44	-20	-38	-21	-36	-24	-41	-25	-49	-32	-54	-30	-56	-20	-59		
10.....	-41	-64	-38	-65	-42	-62	-41	-58	-35	-54	-30	-52	-27	-46	-28	-44	-30	-48	-32	-55	-40	-57	-38	-60	-27	-65		
11.....	-42	-67	-39	-65	-43	-64	-44	-64	-44	-59	-38	-56	-35	-54	-36	-51	-36	-55	-40	-58	-41	-65	-44	-64	-35	-67		
12.....	-46	-67	-42	-66	-44	-69	-45	-69	-46	-65	-43	-61	-43	-62	-44	-58	-44	-62	-44	-62	-47	-63	-44	-69	-45	-69	-42	-69
13.....	-47	-71	-45	-66	-47	-67	-46	-72	-48	-69	-47	-66	-49	-69	-51	-62	-47	-66	-49	-66	-46	-69	-49	-68	-45	-72		
14.....	-48	-64	-47	-64	-50	-64	-48	-76	-49	-69	-50	-71	-52	-68	-54	-67	-55	-68	-53	-69	-48	-69	-50	-67	-47	-76		
15.....	-50	-68	-50	-66	-51	-65	-51	-70	-51	-70	-52	-71	-56	-73	-57	-75	-58	-74	-54	-70	-49	-67	-50	-71	-49	-75		
16.....	-53	-73	-52	-69	-51	-65	-54	-66	-51	-70	-54	-74	-58	-74	-58	-75	-59	-78	-56	-74	-48	-69	-50	-68	-48	-78		

Period of Record: Surface— 75 years

Elevation: 171 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-June 1938
 1-16 Km., Sept. 1939-July 1940
 Jan. 1941-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

ST. PAUL - MINNEAPOLIS, MINN.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	14	-37	18	-36	28	-27	33	-14	41	-6	40	1	42	7	39	6	40	-3	32	-12	25	-25	17	-33	42	-37
1.....	12	-32	8	-29	21	-30	21	-11	25	-6	27	-2	32	8	27	7	28	-3	22	-11	15	-15	12	-24	32	-32
2.....	7	-33	5	-32	13	-29	14	-18	18	-11	21	-4	25	1	21	1	23	-12	16	-15	14	-18	14	-28	25	-33
3.....	1	-35	1	-30	5	-31	7	-22	12	-17	15	-5	17	-5	14	-2	14	-18	11	-20	6	-23	9	-30	17	-35
4.....	-3	-37	-5	-34	-1	-37	2	-29	5	-24	8	-10	9	-9	9	-9	7	-20	3	-25	0	-29	3	-32	9	-37
5.....	-10	-41	-12	-40	-9	-42	-4	-34	-2	-30	2	-17	3	-16	2	-17	2	-28	-3	-32	-8	-37	-8	-39	3	-42
6.....	-17	-46	-20	-46	-18	-45	-11	-42	-7	-32	-4	-24	-2	-22	-3	-19	-5	-33	-10	-39	-16	-42	-15	-45	-2	-46
7.....	-26	-52	-28	-48	-25	-49	-20	-49	-16	-40	-11	-31	-9	-31	-10	-27	-12	-38	-17	-44	-22	-46	-21	-52	-9	-52
8.....	-33	-56	-34	-52	-33	-53	-27	-51	-23	-46	-18	-39	-15	-39	-16	-33	-18	-44	-24	-50	-30	-52	-28	-58	-15	-58
9.....	-40	-62	-41	-61	-40	-59	-35	-58	-30	-55	-24	-48	-23	-46	-24	-41	-24	-50	-30	-56	-38	-59	-36	-59	-23	-62
10.....	-43	-65	-41	-64	-42	-61	-42	-61	-38	-56	-31	-52	-30	-53	-31	-47	-32	-56	-37	-57	-43	-64	-41	-62	-30	-65
11.....	-45	-68	-42	-68	-43	-65	-43	-66	-41	-62	-38	-57	-36	-58	-37	-54	-36	-64	-39	-63	-44	-66	-42	-67	-36	-68
12.....	-45	-70	-42	-65	-45	-68	-43	-68	-43	-65	-45	-62	-43	-61	-44	-60	-42	-63	-43	-65	-46	-68	-44	-69	-42	-70
13.....	-46	-68	-43	-62	-45	-63	-45	-69	-44	-68	-46	-65	-46	-63	-48	-67	-48	-67	-45	-68	-47	-71	-45	-66	-43	-71
14.....	-47	-65	-46	-61	-47	-62	-46	-75	-47	-67	-48	-67	-50	-68	-49	-69	-47	-68	-50	-70	-47	-68	-46	-65	-46	-75
15.....	-49	-64	-44	-63	-47	-61	-47	-71	-50	-68	-50	-69	-50	-72	-52	-74	-49	-72	-50	-68	-48	-67	-49	-65	-44	-74
16.....	-49	-64	-44	-65	-51	-61	-53	-63	-51	-63	-52	-67	-52	-70	-52	-77	-50	-71	-52	-68	-49	-65	-51	-64	-44	-77

Period of Record: Surface— 54 years

Elevation: 225 Meters, M. S. L.

Upper Air— Sept. 1939 - July 1940
 Jan. 1941 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

ST. THOMAS, V. I.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	26	20	27	20	27	20	28	21	29	24	29	23	30	25	30	26	31	24	30	24	30	24	27	23	31	19
1.....	20	14	22	11	22	13	21	13	22	17	22	16	22	16	23	17	24	18	24	16	25	14	23	15	25	11
2.....	17	8	17	6	17	6	17	6	20	11	20	10	20	10	20	13	20	12	19	11	19	8	18	11	20	6
3.....	14	5	14	2	16	4	15	5	13	6	14	3	14	6	14	8	14	4	15	5	14	4	13	7	16	2
4.....	9	-1	12	-2	10	0	9	1	9	1	8	0	9	-1	10	1	9	0	9	-1	10	-2	9	2	12	-2
5.....	2	-7	4	-7	1	-6	2	-5	2	-4	1	-6	2	-6	4	-5	4	-1	3	-3	3	-3	5	-4	5	-7
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface- *

Elevation: 8 Meters, M. S. L.

Upper Air- Jan. 1937-Oct. 1941

*Taken from apob records only. Record not continuous.

Maximum and Minimum Temperatures, (°C.)

SALT LAKE CITY, UTAH

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	17	-29	20	-25	25	-18	29	-8	34	-4	39	0	41	6	39	6	36	-2	31	-6	23	-19	20	-23	41	-29
1.....	9	-21	8	-13	11	-11	19	-4	21	-1	25	1	29	9	27	14	23	5	21	0	12	-10	9	-9	29	-21
2.....	4	-26	1	-21	4	-20	12	-12	15	-10	18	-6	21	2	20	6	15	-3	13	-7	9	-18	6	-15	21	-26
3.....	0	-26	-5	-28	-1	-28	4	-20	6	-18	10	-12	12	-3	11	0	7	-9	5	-14	2	-28	0	-22	12	-28
4.....	-7	-32	-10	-36	-7	-36	-3	-29	-2	-26	3	-19	3	-8	3	-8	0	-16	-1	-24	-5	-35	-6	-26	3	-36
5.....																										
6.....																										
7.....																										
8.....																										
9.....																										
10.....																										
11.....																										
12.....																										
13.....																										
14.....																										
15.....																										
16.....																										

Period of Record: Surface— 69 years

Elevation: 1288 Meters, M. S. L.

Upper Air— August 1936 - July 1939

Maximum and Minimum Temperatures, (°C.)

SAN ANTONIO, TEX. (KELLY FIELD)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	31	-14	34	-16	36	-6	38	2	39	7	41	9	41	16	42	14	39	5	37	0	32	-6	30	-9	41	-16
1.....	23	-14	23	-4	24	-7	27	-2	26	10	30	18	30	17	29	17	27	10	25	7	23	-2	21	-5	30	-14
2.....	20	-7	19	-5	22	-7	22	-10	22	6	26	10	25	12	23	11	22	8	20	2	20	-2	18	-8	26	-10
3.....	17	-12	11	-15	14	-9	16	-5	18	2	20	5	20	6	17	5	16	3	15	-5	15	-10	11	-11	20	-15
4.....	8	-13	5	-19	6	-14	7	-11	12	-5	15	-1	11	0	11	1	10	-2	13	-5	9	-12	10	-15	15	-19
5.....	-1	-20	1	-24	-1	-22	3	-18	4	-10	5	-7	5	-6	5	-5	5	-7	3	-11	2	-17	3	-23	5	-24
6.....	-10	-27	-8	-29	-8	-28	-6	-26	-4	-16	-1	-13	0	-13	-1	-11	-2	-12	-2	-19	-5	-20	-7	-31	0	-31
7.....	-16	-35	-16	-37	-15	-31	-12	-34	-10	-24	-7	-19	-7	-20	-7	-19	-7	-19	-9	-26	-11	-27	-14	-35	-7	-37
8.....	-23	-42	-23	-41	-22	-38	-21	-43	-18	-31	-13	-29	-13	-27	-14	-25	-12	-26	-15	-33	-19	-36	-22	-39	-12	-43
9.....	-30	-49	-30	-45	-30	-45	-27	-44	-24	-39	-19	-36	-19	-35	-20	-33	-20	-34	-22	-41	-25	-44	-28	-46	-19	-49
10.....	-36	-56	-38	-54	-36	-52	-34	-51	-32	-48	-26	-44	-27	-44	-27	-41	-27	-43	-28	-50	-31	-51	-35	-53	-26	-56
11.....	-44	-59	-42	-60	-39	-61	-42	-61	-40	-56	-35	-52	-35	-53	-34	-50	-33	-50	-36	-54	-38	-61	-40	-59	-33	-61
12.....	-49	-64	-45	-63	-44	-65	-47	-66	-47	-60	-40	-60	-41	-60	-40	-60	-41	-56	-43	-61	-44	-69	-42	-66	-40	-69
13.....	-52	-67	-48	-64	-48	-67	-50	-69	-52	-66	-44	-68	-48	-65	-49	-69	-48	-66	-50	-66	-50	-71	-48	-70	-44	-71
14.....	-54	-74	-52	-67	-53	-70	-51	-74	-56	-72	-47	-72	-55	-68	-56	-73	-56	-74	-56	-72	-56	-73	-54	-71	-47	-74
15.....	-55	-71	-55	-70	-57	-70	-56	-73	-58	-72	-50	-72	-61	-74	-62	-74	-62	-80	-58	-77	-60	-75	-57	-71	-50	-80
16.....	-56	-74	-59	-75	-60	-76	-59	-73	-61	-73	-53	-76	-63	-77	-64	-78	-66	-80	-61	-80	-62	-76	-62	-74	-53	-80

Period of Record: Surface— 61 years

Elevation: 240 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-June 1938
 1-16 Km., July 1939-July 1940
 Mar. 1941-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

Period of Record: Surface— 74 years

Elevation: 19 Meters, M. S. L.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	-29	-4	-32	-1	-37	-2	-36	-4	-37	-7	-36	-10	-38	-12	-34	-12	-43	-10	-36	-7	-34	-2	-29	-0	-43	-4
1	-23	-4	-21	-0	-21	-1	-25	-2	-27	-4	-30	-6	-36	-10	-33	-9	-32	-9	-29	-7	-23	-3	-22	-2	-36	-4
2	-16	-11	-16	-8	-16	-6	-17	-4	-21	-1	-26	-1	-29	-9	-28	-12	-25	-2	-22	-0	-20	-2	-13	-4	-29	-11
3	-12	-16	-8	-15	-11	-13	-11	-12	-14	-5	-22	-0	-20	-4	-20	-8	-19	-0	-15	-6	-12	-9	-12	-12	-22	-16
4	-5	-22	-2	-23	-3	-21	-6	-20	-8	-11	-14	-5	-12	-0	-12	-0	-12	-4	-9	-12	-7	-15	-6	-19	-14	-23
5	-2	-29	-4	-30	-4	-23	-2	-24	-2	-20	-7	-11	-6	-7	-5	-6	-5	-11	-3	-19	-2	-21	-1	-27	-7	-30
6	-8	-34	-11	-38	-11	-28	-10	-32	-3	-25	-2	-18	-0	-14	-2	-12	-2	-16	-4	-28	-4	-29	-8	-37	-0	-38
7	-14	-38	-17	-42	-18	-36	-14	-40	-11	-32	-8	-26	-7	-20	-8	-19	-10	-21	-13	-37	-11	-39	-14	-38	-7	-42
8	-22	-46	-25	-46	-26	-43	-24	-42	-18	-41	-14	-35	-16	-28	-15	-28	-14	-29	-20	-38	-20	-46	-22	-44	-14	-46
9	-29	-52	-31	-52	-33	-49	-32	-50	-27	-49	-21	-44	-20	-37	-22	-36	-20	-37	-27	-46	-28	-47	-29	-51	-20	-50
10	-34	-57	-38	-56	-41	-58	-37	-54	-35	-48	-28	-53	-27	-46	-28	-43	-26	-45	-33	-50	-34	-54	-36	-53	-26	-58
11	-36	-62	-42	-65	-45	-63	-42	-61	-42	-56	-35	-56	-34	-55	-34	-51	-33	-53	-39	-58	-39	-61	-43	-61	-33	-65
12	-39	-65	-46	-74	-49	-69	-44	-64	-47	-62	-40	-62	-40	-63	-39	-61	-40	-60	-43	-62	-45	-68	-45	-67	-39	-74
13	-44	-66	-50	-76	-50	-67	-47	-67	-49	-68	-46	-65	-46	-67	-41	-63	-49	-64	-46	-66	-49	-69	-51	-68	-41	-76
14	-49	-66	-51	-70	-52	-68	-46	-66	-51	-70	-56	-68	-52	-72	-45	-70	-55	-66	-48	-68	-52	-70	-54	-68	-45	-72
15	-55	-67	-54	-71	-56	-69	-47	-66	-48	-72	-57	-69	-56	-71	-52	-74	-58	-71	-52	-70	-54	-75	-54	-70	-47	-75
16	-57	-69	-55	-72	-56	-69	-48	-69	-57	-74	-60	-73	-55	-72	-61	-74	-61	-72	-55	-74	-63	-72	-54	-72	-48	-74

Period of Record: Surface— 74 years

Elevation: 19 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-Jan. 1940
1-16 Km., Jan. 1940-Nov. 1944

Maximum and Minimum Temperatures, (°C.)

SAN JUAN, P. R.																										
Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	31	17	33	17	33	17	34	18	34	19	34	19	33	21	34	20	34	21	34	20	34	19	32	17	34	17
1.....	24	14	23	14	21	14	23	14	23	13	26	16	25	17	25	18	25	18	24	18	23	14	21	15	26	13
2.....	17	7	18	7	18	7	19	9	20	7	19	8	18	11	19	10	20	12	20	12	19	9	17	8	20	7
3.....	13	4	13	4	14	3	16	4	13	4	16	5	14	5	15	4	15	6	15	6	14	4	14	2	16	2
4.....	8	-2	9	-1	9	-2	9	-2	9	-1	9	-3	9	1	9	0	10	1	9	0	8	-2	8	-2	10	-3
5.....	3	-8	4	-7	4	-9	3	-7	5	-8	3	-7	4	-7	5	-5	4	-6	2	-6	2	-7	3	-7	5	-9
6.....	-4	-15	-3	-13	-1	-14	-1	-14	-2	-13	-1	-14	-1	-11	-2	-10	-4	-11	-3	-12	-3	-14	-2	-13	-1	-15
7.....	-11	-22	-10	-21	-8	-20	-9	-20	-9	-20	-8	-20	-7	-17	-9	-17	-8	-18	-9	-20	-10	-20	-9	-20	-7	-22
8.....	-17	-29	-17	-27	-16	-28	-17	-28	-16	-25	-15	-26	-13	-25	-16	-24	-15	-26	-16	-28	-15	-28	-15	-26	-13	-29
9.....	-25	-34	-26	-34	-21	-36	-23	-34	-23	-32	-22	-34	-19	-33	-24	-33	-22	-33	-22	-35	-22	-35	-21	-36	-22	-35
10.....	-30	-41	-33	-41	-28	-43	-30	-44	-30	-40	-29	-42	-26	-42	-30	-41	-28	-42	-30	-43	-28	-46	-30	-43	-26	-46
11.....	-37	-49	-37	-49	-35	-50	-37	-51	-38	-48	-37	-48	-33	-51	-35	-49	-34	-50	-38	-51	-35	-55	-38	-51	-33	-55
12.....	-44	-56	-41	-56	-42	-57	-45	-57	-42	-57	-46	-56	-40	-60	-45	-57	-41	-59	-45	-59	-42	-62	-44	-60	-40	-62
13.....	-50	-62	-50	-63	-50	-64	-53	-64	-52	-66	-53	-65	-52	-67	-54	-65	-48	-68	-50	-66	-49	-69	-51	-67	-48	-69
14.....	-55	-69	-58	-68	-56	-72	-58	-70	-58	-71	-61	-70	-58	-74	-59	-73	-52	-74	-56	-74	-57	-72	-57	-75	-52	-75
15.....	-61	-75	-64	-76	-62	-82	-63	-76	-64	-79	-64	-79	-62	-78	-64	-79	-55	-82	-61	-80	-63	-79	-60	-76	-55	-82
16.....	-64	-78	-70	-86	-68	-86	-67	-81	-69	-82	-66	-82	-65	-79	-70	-79	-60	-81	-65	-88	-68	-86	-67	-83	-60	-88

Period of Record: Surface- 47 years.

Elevation: 15 Meters, M. S. L.

Upper Air- Feb. 1941-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

SANTA MARIA, CALIF.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	29	-4	32	-4	33	-2	37	-2	38	0	43	2	39	5	35	5	41	0	40	-2	33	-4	32	-3	43	-4
1.....	20	-1	18	0	16	0	22	-1	24	4	28	4	31	11	31	9	32	7	26	6	22	1	20	2	32	0
2.....	13	-7	14	-6	12	-6	15	-6	19	-3	22	0	25	13	23	12	25	3	20	-1	16	-6	13	-4	25	-7
3.....	7	-13	7	-13	7	-13	7	-10	11	-8	15	-6	19	5	18	8	15	0	14	-7	10	-8	9	-11	19	-13
4.....	0	-19	0	-20	1	-20	1	-16	7	-15	7	-10	11	0	11	-1	10	-6	7	-11	4	-14	4	-18	11	-20
5.....	-8	-27	-6	-27	-6	-27	-6	-21	2	-22	1	-16	3	-7	4	-5	3	-14	0	-16	-2	-21	-3	-26	4	-27
6.....	-13	-35	-12	-36	-12	-34	-13	-28	-5	-30	-5	-22	-4	-14	-2	-12	-3	-22	-6	-23	-8	-28	-9	-33	-2	-36
7.....	-20	-43	-20	-45	-19	-44	-21	-36	-11	-38	-12	-29	-10	-22	-9	-20	-9	-26	-13	-31	-15	-37	-16	-42	-9	-45
8.....	-28	-46	-28	-49	-28	-48	-28	-44	-18	-40	-20	-36	-17	-30	-16	-26	-16	-31	-21	-41	-23	-44	-25	-47	-16	-49
9.....	-36	-54	-36	-51	-36	-51	-36	-52	-26	-48	-28	-42	-24	-37	-22	-34	-23	-39	-28	-48	-32	-50	-32	-53	-22	-54
10.....	-42	-57	-41	-56	-44	-57	-45	-56	-34	-50	-35	-51	-31	-44	-30	-41	-30	-46	-32	-49	-39	-52	-38	-57	-30	-57
11.....	-46	-61	-40	-63	-46	-65	-49	-64	-41	-58	-40	-54	-37	-50	-37	-48	-36	-54	-39	-58	-44	-60	-42	-62	-36	-65
12.....	-46	-66	-42	-68	-47	-68	-48	-66	-46	-65	-44	-61	-40	-56	-44	-55	-43	-60	-43	-67	-48	-66	-46	-66	-40	-68
13.....	-48	-73	-45	-70	-50	-70	-52	-72	-49	-69	-48	-65	-47	-60	-50	-60	-49	-64	-46	-68	-50	-71	-52	-68	-45	-73
14.....	-52	-67	-52	-68	-51	-68	-54	-74	-52	-72	-50	-70	-53	-66	-57	-66	-55	-69	-52	-68	-55	-70	-54	-74	-50	-74
15.....	-53	-68	-55	-63	-54	-66	-57	-67	-54	-72	-54	-72	-57	-71	-60	-70	-59	-71	-58	-70	-59	-72	-64	-74	-53	-74
16.....	-56	-70	-58	-63	-59	-68	-61	-69	-56	-71	-57	-70	-58	-75	-62	-73	-60	-72	-60	-74	-60	-72	-66	-73	-56	-75

Period of Record: Surface— 44 years

Elevation: 71 Meters, M. S. L.

Upper Air— May 1943 - Dec. 1945

Maximum and Minimum Temperatures, (°C.)

Περίοδος ρεκόρ: επιφάνεια - 57 έτη

Περίοδος ρεκόρ: επιφάνεια - 57 έτη

Εύρος: 221 μέτρα M. S. L.

SAULT STE. MARIE, MICH.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	9	-36	10	-38	21	-33	28	-25	33	-6	34	0	37	3	34	-2	33	-3	28	-9	23	-24	12	-31	37	-38
1	9	-27	6	-27	16	-29	19	-15	22	-7	25	-1	28	-4	25	-4	27	-4	20	-13	17	-18	7	-27	28	-29
2	5	-35	2	-31	10	-32	15	-23	14	-15	20	-7	20	-2	20	-3	18	-11	14	-15	11	-21	8	-30	20	-35
3	1	-43	-2	-33	4	-35	7	-29	9	-21	14	-14	15	-8	13	-8	14	-19	10	-22	4	-25	4	-36	15	-43
4	-5	-46	-8	-40	-2	-39	0	-35	4	-25	7	-20	8	-14	7	-14	6	-27	4	-30	-1	-31	-3	-43	8	-46
5	-12	-48	-15	-42	-9	-44	-7	-41	-1	-31	1	-28	4	-21	2	-20	1	-34	-3	-34	-8	-40	-5	-44	4	-48
6	-19	-51	-23	-48	-15	-50	-14	-49	-9	-37	-5	-36	-2	-28	-4	-26	-6	-41	-10	-40	-13	-46	-14	-49	-2	-51
7	-26	-56	-31	-53	-23	-53	-19	-51	-16	-44	-10	-40	-7	-33	-11	-34	-11	-42	-17	-45	-20	-52	-21	-55	-7	-56
8	-32	-60	-37	-58	-31	-54	-26	-52	-24	-52	-16	-45	-13	-41	-17	-44	-19	-46	-23	-50	-27	-56	-28	-58	-13	-60
9	-39	-65	-42	-61	-39	-60	-33	-60	-32	-55	-22	-54	-20	-49	-23	-49	-26	-53	-30	-55	-36	-59	-36	-60	-20	-65
10	-41	-65	-41	-63	-41	-63	-40	-67	-39	-61	-29	-58	-27	-53	-30	-53	-33	-56	-37	-64	-42	-64	-41	-63	-27	-67
11	-42	-72	-41	-66	-43	-72	-42	-67	-42	-64	-37	-59	-35	-59	-36	-59	-39	-61	-38	-66	-42	-68	-41	-70	-35	-72
12	-43	-70	-42	-66	-43	-77	-42	-69	-43	-67	-41	-65	-38	-63	-42	-61	-41	-64	-42	-68	-42	-69	-43	-73	-38	-77
13	-45	-73	-42	-59	-45	-72	-42	-71	-45	-68	-44	-65	-42	-63	-46	-63	-44	-68	-46	-78	-46	-70	-44	-74	-42	-78
14	-46	-69	-45	-59	-45	-67	-46	-67	-45	-66	-46	-67	-45	-68	-48	-70	-48	-68	-46	-74	-45	-71	-46	-70	-45	-74
15	-49	-68	-46	-60	-45	-64	-47	-64	-49	-66	-48	-72	-46	-68	-49	-67	-48	-70	-48	-67	-47	-69	-44	-66	-44	-72
16	-49	-70	-46	-61	-48	-65	-49	-64	-50	-69	-49	-70	-49	-66	-50	-75	-49	-72	-48	-67	-49	-67	-45	-66	-45	-75

Period of Record: Surface— 57 years

Elevation: 221 Meters, M. S. L.

Upper Air— 1-5 Km.—Aug. 1936-June 1938
 1-16 Km.—July 1938-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

SEATTLE, WASH.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	19	-16	21	-16	27	-7	29	-1	33	2	37	4	38	8	36	8	33	2	28	-2	20	-9	18	-11	38	-16
1	16	-15	13	-15	16	-8	17	-8	23	-1	30	2	30	5	26	6	26	-1	22	-7	18	-7	12	-8	30	-15
2	11	-18	11	-17	10	-13	12	-16	14	-8	21	-4	24	-1	20	0	21	-7	19	-13	13	-14	10	-15	24	-18
3	5	-25	6	-22	3	-20	8	-24	9	-16	14	-10	16	-8	15	-6	17	-13	13	-18	6	-19	4	-22	17	-25
4	-3	-30	-1	-31	-4	-27	0	-31	2	-22	6	-17	8	-14	9	-13	9	-19	8	-24	1	-24	-1	-28	9	-31
5	-10	-36	-10	-35	-11	-35	-7	-31	-4	-30	-2	-24	1	-22	2	-22	2	-23	1	-28	-4	-31	-9	-35	2	-36
6	-17	-42	-18	-44	-18	-43	-14	-39	-12	-38	-7	-32	-7	-29	-4	-29	-7	-31	-10	-37	-16	-39	-17	-45	-4	-45
7	-24	-49	-24	-50	-26	-51	-22	-46	-18	-47	-14	-41	-14	-34	-12	-36	-15	-39	-17	-46	-23	-47	-24	-50	-12	-51
8	-32	-58	-30	-56	-33	-58	-30	-55	-25	-52	-20	-50	-22	-43	-20	-43	-24	-46	-24	-50	-31	-56	-28	-55	-20	-58
9	-40	-65	-38	-58	-40	-58	-36	-58	-33	-55	-26	-52	-28	-48	-28	-51	-30	-51	-30	-57	-36	-57	-36	-59	-26	-65
10	-45	-64	-45	-62	-45	-62	-40	-63	-40	-61	-34	-55	-38	-53	-34	-51	-36	-57	-37	-59	-42	-61	-43	-63	-34	-64
11	-47	-67	-46	-67	-44	-67	-40	-64	-42	-63	-40	-59	-40	-57	-41	-58	-43	-59	-44	-60	-42	-65	-44	-66	-40	-67
12	-46	-75	-47	-69	-47	-71	-42	-69	-44	-66	-42	-63	-42	-61	-43	-64	-44	-66	-47	-67	-46	-71	-44	-71	-42	-75
13	-47	-72	-43	-68	-47	-73	-45	-73	-45	-68	-43	-64	-44	-65	-45	-63	-46	-69	-49	-72	-50	-73	-45	-69	-43	-73
14	-46	-67	-47	-67	-46	-66	-48	-69	-46	-73	-45	-64	-47	-64	-42	-64	-47	-68	-50	-71	-51	-68	-46	-67	-42	-73
15	-45	-67	-50	-66	-51	-63	-48	-65	-47	-68	-48	-64	-48	-63	-49	-64	-46	-70	-53	-68	-52	-71	-47	-64	-45	-71
16	-46	-68	-52	-65	-50	-64	-47	-62	-50	-63	-47	-64	-49	-61	-48	-64	-45	-68	-53	-67	-52	-70	-48	-66	-45	-70

Period of Record: Surface— 56 years

Elevation: 22 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-Jan. 1940
 1-16 Km., Feb. 1940-Nov. 1944

Maximum and Minimum Temperatures, (°C.)

SHREVEPORT, LA. (BARKSDALE FIELD)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
Surface...	28	-19	32	-21	33	-7	36	-1	38	6	40	12	42	16	43	12	41	7	37	-2	31	-8	28	-12	43	-21	
1.....	18	-16	17	-9	22	-7	23	-4	22	12	32	17	27	18	30	18	26	8	23	-1	20	-3	17	-10	32	-16	
2.....	14	-14	16	-8	16	-6	18	-3	18	5	22	11	23	13	24	12	20	6	20	0	17	-6	12	-12	24	-14	
3.....	10	-17	10	-11	12	-13	12	-6	12	0	16	6	15	7	15	6	14	-1	12	-5	12	-8	7	-14	16	-17	
4.....	3	-17	4	-17	3	-14	4	-12	6	-7	10	-1	8	1	9	0	8	0	8	-11	5	-14	4	-19	10	-19	
5.....	-10	-30	-10	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11	-30	-11
6.....	-3	-30	-7	-30	-7	-30	0	-30	5	-30	9	-30	8	-30	8	-30	8	-30	8	-30	7	-30	-7	-30	8	-30	
7.....	2	-30	9	-30	3	-30	8	-30	8	-30	10	-30	10	-30	12	-30	12	-30	13	-30	9	-30	7	-30	12	-30	
8.....	11	-28	11	-28	10	-28	15	-28	14	-8	17	-7	15	-7	15	0	17	-7	16	-28	13	-28	10	-28	17	-28	
9.....	10	-22	13	-22	10	-8	14	-8	13	-7	16	5	13	2	15	0	16	-7	15	-7	18	-7	15	-8	17	-22	
10.....	10	-20	13	-20	11	-7	14	-7	13	5	16	7	13	8	14	8	15	5	14	-5	16	-5	15	-7	17	-20	
11.....																											
12.....																											
13.....																											
14.....																											
15.....																											
16.....																											

Period of Record: Surface— 64 years

Elevation: 51 Meters, M. S. L.

Upper Air— June 1935—June 1939

Maximum and Minimum Temperatures, (°C.)

SPOKANE, WASH.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	17	-34	16	-31	23	-23	32	-10	36	-2	38	1	42	5	40	3	37	-6	31	-13	21	-25	16	-28	42	-34
1.....	10	-20	8	-23	17	-11	24	-10	24	0	28	5	34	9	32	10	30	-2	23	-11	17	-12	12	-14	34	-23
2.....	8	-26	9	-24	9	-19	20	-17	23	-6	26	-3	28	2	25	4	21	-10	20	-19	14	-16	11	-18	28	-26
3.....	4	-29	6	-28	3	-23	13	-24	17	-12	18	-9	19	-6	15	-5	12	-14	13	-24	9	-22	9	-22	19	-29
4.....	-2	-33	0	-35	-3	-31	4	-29	8	-20	11	-16	14	-13	9	-13	6	-20	7	-30	3	-30	3	-32	14	-35
5.....	-9	-39	-7	-42	-10	-39	-5	-37	-2	-28	2	-23	8	-18	2	-18	0	-26	0	-34	-4	-38	-3	-39	8	-42
6.....	-15	-45	-17	-42	-17	-43	-13	-40	-13	-36	-8	-32	-7	-26	-3	-26	-7	-33	-8	-38	-14	-42	-16	-43	-3	-45
7.....	-22	-52	-24	-49	-24	-50	-22	-49	-18	-44	-13	-40	-13	-33	-11	-34	-14	-42	-16	-46	-21	-50	-23	-51	-11	-52
8.....	-30	-55	-31	-56	-31	-56	-31	-53	-26	-52	-20	-46	-20	-39	-19	-43	-22	-48	-24	-53	-25	-55	-31	-59	-19	-59
9.....	-37	-60	-38	-59	-39	-59	-39	-56	-34	-56	-27	-51	-28	-46	-26	-50	-29	-53	-32	-57	-37	-58	-38	-58	-26	-60
10.....	-45	-68	-46	-63	-45	-63	-42	-62	-39	-61	-35	-56	-36	-52	-33	-51	-37	-57	-38	-59	-42	-60	-45	-60	-33	-68
11.....	-47	-70	-47	-69	-46	-66	-43	-65	-42	-62	-40	-63	-39	-57	-41	-58	-43	-62	-45	-64	-40	-65	-45	-65	-39	-70
12.....	-44	-72	-46	-70	-46	-72	-44	-69	-43	-65	-41	-65	-43	-62	-42	-59	-45	-66	-47	-68	-44	-71	-45	-73	-41	-73
13.....	-44	-73	-47	-68	-47	-70	-46	-75	-44	-69	-42	-69	-46	-65	-44	-62	-46	-67	-42	-70	-47	-71	-46	-66	-42	-75
14.....	-47	-68	-48	-63	-46	-64	-47	-69	-46	-68	-45	-66	-47	-62	-46	-63	-48	-67	-48	-71	-48	-68	-46	-65	-45	-71
15.....	-49	-70	-50	-62	-47	-62	-48	-62	-48	-65	-48	-66	-48	-62	-49	-66	-50	-67	-49	-68	-49	-67	-47	-67	-47	-70
16.....	-49	-72	-51	-63	-50	-62	-49	-62	-47	-64	-49	-64	-49	-62	-51	-64	-50	-70	-49	-68	-51	-67	-48	-64	-47	-72

Period of Record: Surface— 65 years

Elevation: 598 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-Aug. 1939
 1-16 Km., Sept. 1939-July 1940
 Dec. 1940-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

SWAN ISLAND, WEST INDIES

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	31	19	31	18	32	20	32	21	32	21	33	22	33	22	34	21	34	21	33	21	32	21	31	20	34	18
1	22	12	24	14	23	14	24	16	23	17	24	15	24	16	24	17	24	18	23	15	22	14	23	14	24	12
2	20	-7	20	-8	19	-6	21	-8	18	-11	20	-8	19	-9	20	11	20	12	18	-8	18	-7	18	-6	21	-6
3	14	-3	16	-4	14	-5	16	-4	15	-6	14	-4	14	-4	15	-6	14	-6	15	-5	13	-5	14	-3	16	-3
4	-9	-1	-9	-1	-9	-1	10	0	10	-1	9	-1	8	0	9	-1	9	-2	9	-1	10	0	10	-3	10	-3
5	3	-7	4	-9	4	-4	7	-4	4	-7	4	-8	3	-6	3	-6	3	-5	4	-4	5	-6	7	-8	7	-9
6	-3	-14	1	-17	-1	-12	0	-11	-2	-10	-1	-14	-3	-13	-3	-12	-3	-9	-2	-10	-2	-12	-1	-14	1	-17
7	-10	-20	-8	-19	-9	-20	-6	-18	-8	-17	-7	-20	-10	-19	-9	-18	-8	-16	-8	-16	-8	-17	-8	-20	-6	-20
8	-15	-26	-16	-27	-15	-26	-13	-26	-15	-25	-15	-26	-16	-25	-14	-24	-14	-23	-14	-25	-15	-24	-15	-26	-13	-27
9	-22	-35	-22	-34	-23	-34	-20	-34	-22	-34	-22	-33	-23	-32	-21	-32	-20	-31	-21	-34	-21	-30	-23	-33	-20	-35
10	-27	-43	-29	-41	-29	-40	-28	-42	-30	-43	-28	-41	-27	-40	-30	-40	-27	-40	-27	-41	-29	-38	-30	-40	-27	-43
11	-35	-51	-37	-50	-36	-48	-35	-51	-37	-48	-35	-50	-31	-50	-37	-48	-33	-49	-34	-50	-36	-48	-36	-48	-31	-51
12	-41	-58	-44	-59	-43	-56	-43	-59	-45	-57	-42	-58	-36	-59	-46	-57	-41	-58	-42	-58	-42	-57	-42	-57	-36	-59
13	-48	-64	-50	-65	-51	-64	-51	-66	-53	-66	-45	-66	-45	-67	-53	-66	-49	-67	-50	-68	-50	-67	-48	-65	-45	-68
14	-53	-71	-56	-72	-58	-72	-58	-75	-60	-74	-51	-71	-54	-73	-59	-74	-56	-72	-56	-76	-56	-73	-55	-72	-51	-76
15	-59	-76	-62	-79	-63	-78	-60	-78	-66	-80	-57	-76	-63	-79	-63	-75	-61	-79	-61	-82	-60	-80	-60	-75	-57	-82
16	-65	-84	-66	-84	-68	-82	-65	-86	-69	-87	-64	-80	-66	-75	-64	-78	-65	-80	-66	-82	-63	-79	-65	-77	-63	-87

Period of Record: Surface- 5 years

Elevation: 10 Meters, M. S. L.

Upper Air- Sept. 1940-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

TACUBAYA, MEXICO

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	17	8	19	4	21	10	23	12	24	12	21	13	20	13	20	13	18	12	19	9	18	7	16	8	24	4
1	-58	-70	-30	-40	-30	-40	-30	-40	-52	-67	-57	-63	-57	-63	-52	-63	-57	-63	-57	-63	-30	-40	-30	-40	-57	-63
2	-55	-62	-55	-63	-55	-63	-57	-63	-78	-83	-78	-83	-73	-79	-78	-82	-78	-82	-73	-79	-55	-63	-55	-63	-73	-79
3	13	6	16	7	16	6	19	5	20	7	16	7	16	8	15	9	14	7	15	4	15	3	14	4	20	3
4	5	-1	9	0	8	1	10	-1	10	-1	8	0	8	1	7	2	8	2	8	-2	6	-2	7	-1	10	-2
5	0	-7	2	-8	2	-7	1	-7	2	-7	4	-4	0	-5	2	-4	2	-4	5	-9	0	-7	1	-8	5	-9
6	-6	-15	-4	-15	-5	-15	-4	-14	1	-12	-4	-10	-4	-11	-4	-10	-3	-10	1	-10	-4	-13	-6	-15	1	-15
7	-13	-20	-13	-20	-12	-22	-11	-21	-6	-19	-10	-15	-10	-16	-9	-16	-9	-15	-7	-18	-12	-20	-13	-21	-6	-22
8	-20	-27	-20	-27	-20	-28	-18	-28	-14	-25	-15	-22	-16	-23	-15	-22	-15	-23	-15	-25	-18	-28	-20	-28	-14	-28
9	-29	-35	-27	-35	-27	-36	-25	-34	-23	-33	-23	-29	-22	-30	-21	-30	-22	-29	-21	-33	-25	-35	-28	-37	-21	-37
10	-36	-44	-34	-43	-34	-44	-30	-41	-31	-41	-29	-37	-29	-38	-27	-39	-28	-38	-28	-41	-31	-43	-36	-46	-27	-46
11	-43	-54	-43	-52	-42	-54	-40	-50	-38	-49	-38	-45	-37	-46	-35	-49	-34	-48	-35	-48	-39	-50	-43	-54	-34	-54
12	-48	-63	-49	-60	-48	-59	-48	-58	-46	-58	-42	-54	-46	-55	-41	-58	-42	-57	-42	-56	-46	-59	-51	-62	-41	-63
13	-56	-70	-54	-65	-54	-65	-55	-63	-53	-63	-52	-63	-53	-62	-46	-64	-49	-67	-50	-65	-52	-66	-59	-65	-46	-70
14	-58	-73	-58	-69	-61	-67	-60	-70	-61	-70	-62	-73	-61	-68	-52	-70	-57	-73	-57	-75	-57	-73	-62	-71	-52	-75
15	-66	-74	-65	-77	-68	-74	-65	-74	-66	-77	-70	-78	-67	-76	-58	-75	-64	-79	-64	-79	-60	-79	-67	-75	-58	-79
16	-68	-79	-69	-82	-74	-81	-72	-79	-74	-81	-75	-84	-72	-82	-64	-79	-72	-85	-70	-84	-72	-84	-70	-78	-64	-85

Period of Record: Surface- *3 years.

Elevation: 2306 Meters, M. S. L.

Upper Air- Feb. 1943-Dec. 1945
*taken at time raobs only

Maximum and Minimum Temperatures, (°C.)

TAMPA, FLA.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	29	-5	30	-6	33	-1	33	3	36	11	37	15	37	18	36	19	36	12	35	6	31	-1	30	-7	37	-7
1	16	2	20	6	20	8	22	5	23	10	25	16	23	17	23	19	24	17	21	8	20	6	18	1	25	1
2	14	1	13	4	16	3	18	2	17	2	20	10	17	12	17	13	17	12	18	1	14	-2	18	-3	20	-3
3	9	-5	12	-1	12	2	12	-3	11	0	13	5	13	5	13	7	12	6	13	-2	14	1	11	-7	14	-7
4	3	-9	6	-6	6	-4	5	-7	7	-3	7	-1	7	1	7	1	7	1	7	-7	8	-6	6	-13	8	-13
5	-3	-15	-2	-11	2	-10	-1	-14	1	-10	2	-5	2	-5	1	-5	2	-4	1	-11	0	-12	0	-20	2	-20
6	-8	-23	-7	-18	-8	-17	-8	-21	-4	-17	-3	-11	-5	-10	-5	-12	-5	-11	-4	-19	-7	-19	-7	-21	-3	-23
7	-14	-32	-14	-25	-14	-26	-14	-28	-10	-24	-10	-19	-11	-18	-12	-17	-11	-18	-12	-24	-15	-25	-14	-29	-10	-32
8	-22	-35	-22	-33	-22	-34	-21	-37	-18	-33	-18	-26	-17	-25	-18	-25	-18	-24	-17	-30	-22	-33	-22	-37	-17	-37
9	-29	-40	-30	-40	-30	-40	-30	-45	-25	-41	-24	-33	-24	-31	-25	-32	-24	-32	-25	-37	-30	-42	-28	-40	-24	-45
10	-36	-46	-37	-46	-40	-47	-38	-50	-32	-50	-31	-41	-31	-39	-32	-40	-32	-39	-33	-45	-37	-49	-36	-49	-31	-50
11	-44	-55	-42	-54	-43	-54	-44	-54	-40	-58	-40	-49	-38	-46	-40	-49	-40	-47	-40	-52	-43	-56	-43	-57	-38	-58
12	-48	-65	-48	-61	-48	-62	-51	-62	-49	-62	-47	-56	-46	-56	-47	-55	-47	-56	-47	-59	-50	-60	-50	-62	-46	-65
13	-52	-73	-53	-69	-54	-64	-56	-67	-56	-68	-55	-63	-54	-62	-55	-63	-54	-64	-54	-64	-56	-66	-56	-67	-52	-73
14	-57	-69	-59	-68	-57	-66	-60	-69	-59	-68	-60	-68	-61	-70	-63	-70	-60	-72	-58	-73	-58	-71	-59	-71	-57	-73
15	-62	-72	-65	-72	-61	-69	-63	-72	-62	-71	-62	-73	-67	-73	-67	-72	-64	-76	-62	-76	-61	-74	-65	-73	-61	-76
16	-65	-75	-68	-76	-64	-75	-65	-75	-66	-75	-65	-76	-68	-76	-69	-74	-69	-77	-64	-79	-63	-74	-68	-75	-63	-79

Period of Record: Surface- 56 years.

Elevation: 3 Meters, M. S. L.

Upper Air- May-July 1943
Oct. 1943-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

TATOOSH ISLAND, WASH.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface	18	-14	18	-11	21	-4	24	-1	27	-2	29	-6	31	-7	27	-6	26	-4	25	-1	20	-4	16	-7	31	-14
1	6	-3	7	-3	8	-4	16	-3	19	-1	22	-1	25	1	24	5	23	4	21	1	12	-7	18	-3	25	-7
2	5	-10	4	-12	4	-12	12	-11	12	-7	16	-4	18	1	20	-1	18	-2	17	-6	10	-12	10	-10	20	-12
3	0	-17	-2	-17	1	-19	5	-19	5	-14	9	-10	12	-5	13	-3	11	-8	9	-13	3	-20	4	-17	13	-20
4	-5	-24	-8	-25	-5	-27	-2	-27	-1	-22	2	-18	5	-10	6	-9	6	-15	3	-20	-2	-28	-1	-25	6	-28
5	-10	-32	-14	-32	-11	-33	-9	-34	-7	-30	-4	-25	-2	-17	0	-15	-1	-23	-3	-27	-8	-36	-7	-32	0	-36
6	-17	-41	-20	-38	-16	-41	-16	-40	-11	-36	-11	-33	-7	-24	-6	-23	-7	-32	-10	-36	-15	-44	-15	-40	-6	-44
7	-25	-45	-24	-46	-23	-47	-24	-46	-18	-44	-17	-40	-15	-32	-13	-31	-14	-40	-16	-44	-22	-50	-22	-47	-13	-50
8	-32	-53	-32	-54	-30	-55	-32	-53	-24	-52	-24	-44	-23	-40	-22	-40	-22	-49	-23	-49	-29	-52	-28	-52	-22	-55
9	-40	-53	-39	-56	-37	-59	-40	-56	-32	-57	-31	-52	-31	-48	-31	-46	-30	-49	-31	-56	-36	-58	-37	-56	-30	-59
10	-47	-60	-47	-64	-45	-59	-42	-62	-39	-60	-39	-54	-38	-54	-38	-52	-36	-55	-38	-58	-43	-59	-45	-62	-36	-64
11	-46	-63	-49	-66	-47	-63	-42	-65	-42	-62	-43	-58	-42	-56	-42	-58	-41	-58	-44	-62	-45	-64	-47	-64	-41	-66
12	-43	-67	-47	-66	-46	-70	-42	-65	-46	-67	-43	-63	-42	-61	-44	-62	-44	-62	-46	-65	-47	-70	-46	-70	-42	-70
13	-46	-67	-47	-60	-47	-70	-43	-61	-48	-70	-44	-65	-44	-65	-45	-64	-46	-66	-48	-66	-47	-70	-49	-71	-43	-71
14	-52	-63	-49	-60	-48	-60	-46	-63	-48	-70	-45	-59	-46	-66	-47	-64	-48	-67	-49	-69	-50	-66	-51	-61	-45	-70
15	-53	-59	-51	-56	-49	-61	-50	-62	-49	-63	-45	-60	-48	-62	-49	-64	-54	-67	-50	-68	-51	-65	-53	-60	-45	-68
16	-55	-58	-52	-56	-50	-58	-51	-61	-48	-61	-45	-58	-49	-59	-49	-62	-56	-66	-48	-67	-57	-64	-58	-60	-45	-67

Period of Record: Surface— 63 years

Elevation: 31 Meters, M. S. L.

Upper Air— Mar. 1943—Dec. 1945

Maximum and Minimum Temperatures, (°C.)

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	22	-27	22	-27	28	-22	32	-11	35	-2	38	-3	41	-7	39	-7	38	-1	33	-6	25	-17	21	-26	41	-27
1.....	11	-19	11	-16	20	-16	18	-11	23	-1	26	-1	25	-9	25	-9	24	-1	20	-1	16	-10	-7	-23	26	-23
2.....	9	-21	5	-18	12	-24	10	-19	14	-9	18	-5	19	-2	20	-1	18	-4	14	-9	12	-17	-2	-27	20	-27
3.....	6	-28	-1	-22	6	-29	5	-24	9	-14	13	-6	13	-2	12	-3	12	-5	9	-14	4	-20	-2	-32	13	-32
4.....	-2	-33	-7	-28	0	-35	-2	-29	2	-20	9	-11	6	-7	6	-9	5	-10	1	-21	0	-27	-4	-35	9	-35
5.....	-9	-38	-13	-35	-8	-40	-7	-36	-4	-30	0	-16	2	-14	2	-14	-1	-16	-5	-29	-6	-33	-10	-38	2	-40
6.....	-16	-44	-18	-41	-15	-43	-14	-43	-10	-36	-6	-22	-5	-21	-4	-22	-7	-22	-11	-36	-14	-40	-16	-45	-4	-45
7.....	-24	-46	-24	-46	-21	-45	-20	-50	-16	-42	-12	-28	-10	-29	-10	-29	-13	-29	-18	-38	-20	-46	-23	-51	-10	-51
8.....	-33	-50	-32	-50	-27	-51	-27	-48	-24	-48	-20	-34	-18	-37	-17	-36	-19	-36	-24	-46	-27	-50	-31	-51	-17	-51
9.....	-42	-56	-40	-57	-34	-54	-34	-53	-30	-54	-27	-42	-24	-43	-23	-41	-25	-42	-32	-48	-33	-54	-40	-55	-23	-57
10.....	-47	-59	-44	-62	-39	-57	-42	-58	-38	-59	-32	-50	-32	-49	-27	-46	-31	-51	-35	-55	-41	-60	-43	-60	-27	-62
11.....	-48	-63	-45	-61	-38	-64	-41	-63	-45	-61	-40	-55	-39	-55	-32	-53	-38	-56	-44	-59	-42	-65	-44	-64	-32	-65
12.....	-47	-65	-47	-65	-41	-64	-47	-66	-46	-63	-45	-59	-44	-61	-38	-57	-45	-60	-46	-64	-45	-65	-44	-68	-38	-68
13.....	-49	-60	-47	-60	-43	-64	-47	-70	-47	-65	-50	-64	-47	-62	-42	-62	-50	-63	-48	-66	-48	-69	-45	-68	-42	-70
14.....	-51	-59	-49	-59	-45	-64	-49	-73	-48	-69	-51	-69	-50	-63	-46	-65	-53	-69	-51	-67	-48	-63	-46	-67	-45	-73
15.....	-52	-55	-50	-57	-47	-64	-51	-59	-50	-64	-53	-68	-52	-67	-49	-66	-57	-69	-52	-67	-49	-65	-48	-64	-47	-69
16.....	-54	-57	-51	-56	-58	-61	-55	-61	-51	-61	-55	-67	-56	-67	-56	-67	-60	-67	-52	-66	-52	-67	-52	-64	-51	-67

Period of Record: Surface-- 75 years

Elevation: 191 Meters, M. S. L.

Upper Air-- Jan. 1944-Dec. 1945

Maximum and Minimum Temperatures, (°C.)

WASHINGTON, D. C.

Alt. (Km.)	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
Surface...	25	-26	29	-26	34	-16	35	-9	36	1	39	6	41	11	41	9	40	2	36	-3	28	-12	23	-25	41	-26
1.....	15	-22	16	-20	21	-18	22	-10	24	-1	27	-5	31	8	28	10	25	-1	25	-5	18	-11	16	-16	31	-22
2.....	14	-24	11	-26	13	-22	15	-16	17	-7	21	-3	22	2	21	3	18	-3	16	-11	16	-19	10	-21	22	-26
3.....	7	-26	6	-28	7	-25	8	-23	12	-12	16	-6	19	-5	15	-5	15	-6	11	-16	10	-25	5	-25	19	-28
4.....	2	-31	-1	-34	3	-33	1	-29	9	-19	8	-12	10	-9	9	-8	9	-13	7	-21	4	-29	1	-32	10	-34
5.....	-5	-36	-7	-37	-5	-39	-6	-35	2	-25	2	-20	4	-14	2	-13	2	-22	2	-28	-2	-32	-5	-35	4	-39
6.....	-13	-43	-14	-43	-12	-42	-11	-41	-5	-32	-4	-24	-2	-22	-3	-20	-3	-28	-4	-30	-8	-39	-11	-39	-2	-43
7.....	-20	-50	-20	-45	-20	-44	-18	-47	-14	-40	-9	-30	-5	-30	-8	-26	-9	-35	-9	-37	-13	-43	-17	-46	-5	-50
8.....	-28	-55	-27	-51	-27	-50	-25	-47	-19	-45	-16	-36	-13	-34	-14	-33	-14	-44	-16	-42	-19	-46	-23	-48	-13	-55
9.....	-36	-58	-35	-61	-35	-56	-33	-55	-28	-51	-23	-44	-20	-42	-21	-39	-23	-51	-23	-49	-25	-54	-29	-55	-20	-61
10.....	-40	-64	-39	-60	-38	-61	-40	-60	-35	-55	-31	-52	-25	-50	-28	-46	-30	-50	-32	-53	-33	-61	-37	-60	-25	-64
11.....	-44	-64	-40	-63	-42	-65	-43	-67	-42	-63	-37	-59	-31	-55	-34	-54	-36	-58	-35	-59	-39	-62	-41	-64	-31	-67
12.....	-45	-70	-40	-68	-43	-69	-44	-66	-46	-70	-44	-64	-37	-65	-40	-62	-42	-64	-42	-66	-44	-65	-45	-69	-37	-70
13.....	-46	-69	-41	-72	-45	-70	-46	-71	-46	-71	-44	-70	-42	-73	-48	-67	-48	-66	-47	-66	-49	-73	-48	-70	-41	-73
14.....	-48	-69	-46	-76	-48	-75	-47	-75	-47	-72	-50	-75	-46	-73	-53	-74	-51	-72	-52	-69	-50	-71	-52	-67	-46	-76
15.....	-50	-69	-49	-71	-50	-69	-50	-68	-46	-71	-53	-74	-50	-75	-56	-79	-53	-74	-54	-73	-52	-73	-54	-71	-46	-79
16.....	-53	-69	-50	-68	-51	-65	-52	-71	-48	-72	-56	-72	-54	-75	-57	-76	-52	-76	-54	-75	-56	-76	-54	-67	-48	-76

Period of Record: Surface— 75 years

Elevation: 25 Meters, M. S. L.

Upper Air— 1-5 Km., July 1934-May 1938
 1-16 Km., June 1938-Dec. 1945

MAXIMUM TEMPERATURES FOR THE NETWORK

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Surface	32	34	39	39	46	48	48	46	45	41	37	34	48
1	25	26	26	30	34	39	40	38	37	31	26	24	40
2	20	23	25	27	27	31	33	31	29	24	22	19	33
3	18	16	18	19	20	22	25	23	20	18	17	16	25
4	11	12	10	12	12	15	15	14	14	13	11	11	15
5	4	5	7	8	8	8	8	8	6	7	7	7	8
6	-3	1	-1	0	1	-1	0	0	-1	1	-2	-1	1
7	-10	-8	-8	-6	-6	-7	-4	-5	-7	-6	-8	-8	-4
8	-15	-16	-15	-13	-14	-13	-10	-11	-12	-12	-15	-15	-10

Station Reference Numbers. These apply to chart below.

- | | | |
|---------------|-----------------|-----------------|
| 1. Big Spring | 6. Miami | 11. San Antonio |
| 2. Coco Solo | 7. Pearl Harbor | 12. San Diego |
| 3. Dallas | 8. Pensacola | 13. San Juan |
| 4. Denver | 9. Phoenix | 14. Spokane |
| 5. El Paso | 10. St. Thomas | 15. Swan Island |

STATION CHART FOR MAXIMUM TEMPERATURES OF THE NETWORK

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Surface	Brownsville	Brownsville 1-3-11	Brownsville	Big Spring Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Brownsville	Brownsville	Phoenix
1	Brownsville	Brownsville	Brownsville Miami	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Brownsville	Brownsville	Phoenix
2	Coco Solo 11-15	Brownsville	Brownsville	Albuquerque	El Paso	El Paso	Albuquerque Phoenix	El Paso	Albuquerque	El Paso	Brownsville	Brownsville 2-4-7	Albuquerque Phoenix
3	Pearl Harbor	Swan Island Tacubaya	Brownsville	Tacubaya	Tacubaya	Albuquerque 5-12	Ely	Ely	Albuquerque Phoenix	Billings	Pearl Harbor	Lake Charles	Ely
4	Pearl Harbor	St. Thomas	Brownsville 2-10	Coco Solo	Pensacola San Antonio	San Antonio	Ely	Ely 4-5	Miami Phoenix	San Antonio	Pearl Harbor	Coco Solo Pearl Harbor	Ely San Antonio
5	Coco Solo	Pearl Harbor	Coco Solo	Coco Solo	Pensacola	Mazatlan Pearl Harbor	Spokane	Pensacola	Oklahoma City 6-9	Pearl Harbor	Pearl Harbor	Swan Island	Mazatlan 2-7-8-14
6	Swan Island	Swan Island	San Juan Swan Island	Swan Island	Tacubaya	San Antonio 13-15	Lakehurst 6-11-12	Denver 5-6-9	Miami Phoenix	Tacubaya	Swan Island	Swan Island	Swan Island Tacubaya
7	Swan Island	Swan Island	San Juan	Swan Island	Tacubaya	San Antonio Swan Island	Miami	Miami	San Antonio	Miami	Swan Island	Swan Island	Miami
8	Swan Island	Swan Island	Swan Island	Swan Island	Tacubaya	Charleston San Antonio	Miami	Miami	San Antonio	Miami	San Juan Swan Island	San Juan Swan Island	Miami

Numbers on above chart indicate stations at which similar maximum temperature occurred. See station reference numbers on page above.

MAXIMUM TEMPERATURES FOR THE NETWORK -- Continued

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
9	-22	-22	-21	-20	-22	-19	-16	-17	-20	-20	-21	-22	-16
10	-27	-29	-28	-28	-29	-26	-22	-23	-26	-27	-28	-30	-22
11	-35	-36	-35	-35	-37	-33	-30	-31	-33	-32	-35	-36	-30
12	-39	-39	-39	-39	-38	-38	-36	-37	-40	-38	-39	-40	-36
13	-41	-40	-38	-39	-39	-39	-38	-38	-41	-42	-42	-40	-38
14	-41	-41	-38	-40	-40	-40	-39	-38	-42	-41	-41	-40	-38
15	-41	-40	-39	-41	-41	-40	-39	-39	-42	-43	-39	-40	-39
16	-40	-42	-39	-40	-41	-40	-39	-39	-41	-44	-42	-41	-39

Station Reference Numbers. These apply to chart below.

1. Big Spring	6. Miami	11. San Antonio	16. Barrow	21. Kotzebue
2. Coco Solo	7. Pearl Harbor	12. San Diego	17. Bethel	22. McGrath
3. Dallas	8. Pensacola	13. San Juan	18. Fairbanks	23. Nome
4. Denver	9. Phoenix	14. Spokane	19. Gambell	24. Northway
5. El Paso	10. St. Thomas	15. Swan Island	20. Juneau	

STATION CHART FOR MAXIMUM TEMPERATURES OF THE NETWORK -- Continued

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
9	Swan Island	Swan Island	San Juan	Swan Island	Pensacola Swan Island	San Antonio	Miami	El Paso Miami	Miami 11-12-15	Miami	San Juan Swan Island	San Juan	Miami
10	Swan Island	Swan Island	San Juan	Swan Island	Pensacola	Charleston San Antonio	Miami	Miami	San Diego	Oakland 6-15	San Juan	San Juan Swan Island	Miami
11	Swan Island	Lake Charles	San Juan	Swan Island	Swan Island	Charleston	Miami	El Paso Miami	San Antonio 12-15	Oklahoma City	San Juan	Swan Island	Miami
12	Joliet San Diego	Buffalo	Barrow	Gambell	Bethel Kotzebue	Bethel McGrath	Swan Island	Kotzebue	Anchorage 12-21	Oklahoma City	Caribou	Caribou Portland	Swan Island
13	Anchorage Bethel	Juneau	Fairbanks Kotzebue	Gambell	Barrow McGrath	Bethel	Barrow	Barrow Kotzebue	Barrow 17-21-22	Barrow 14-23	Fairbanks	Gambell	Barrow 18-21
14	Bethel Nome	Gambell Great Falls	Bethel	Barrow Northway	McGrath	Nome 17-21	Barrow 19-24	Barrow	Barrow 17-21-22	Barrow McGrath	Bethel	Bethel	Barrow Bethel
15	Bethel Nome	Bethel	Bethel	Barrow Gambell	McGrath	Bethel 19-21-22	Barrow 19-24	Barrow Kotzebue	McGrath	Anchorage	Bethel	Bethel Gambell	Barrow 17-19-21-24
16	Bethel	Gambell Ketchikan	Barrow	Gambell	Barrow 19-21-22	Barrow 19-21-22	Northway	Barrow	McGrath	Anchorage 17-20-23	Bethel 18-23	Bethel Gambell	Barrow Northway

Numbers on above chart indicate stations at which similar maximum temperature occurred. See station reference numbers on page above.

MAXIMUM TEMPERATURES FOR THE CONTINENTAL UNITED STATES

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Surface	32	34	39	39	46	48	48	46	45	41	37	34	48
1	25	26	26	30	34	39	40	38	37	31	26	24	40
2	20	23	25	27	27	31	33	31	29	24	22	19	33
3	17	14	18	18	18	22	25	23	20	18	15	16	25
4	8	7	10	10	12	15	15	14	14	13	9	10	15
5	0	2	2	3	8	7	8	8	6	4	3	3	8
6	-7	-6	-5	-4	-3	-1	0	0	-1	0	-3	-5	0
7	-14	-11	-12	-12	-8	-7	-4	-5	-7	-6	-9	-12	-4
8	-21	-18	-19	-18	-15	-13	-10	-11	-12	-12	-16	-20	-10

Station Reference Numbers. These apply to chart below.

1. Big Spring	6. Charleston	11. Lakehurst	16. Portland	21. Spokane
2. Bismarck	7. Dallas	12. Medford	17. San Antonio	22. Washington
3. Boise	8. Denver	13. Miami	18. San Diego	
4. Brownsville	9. El Paso	14. Pensacola	19. Sault Ste. Marie	
5. Caribou	10. International Falls	15. Phoenix	20. Seattle	

STATION CHART FOR MAXIMUM TEMPERATURES OF THE CONTINENTAL UNITED STATES

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Surface	Brownsville	Brownsville 1-7-17	Brownsville	Big Spring Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Brownsville	Brownsville	Phoenix
1	Brownsville	Brownsville	Brownsville Miami	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Brownsville	Brownsville	Phoenix
2	San Antonio	Brownsville	Brownsville	Albuquerque	El Paso	El Paso	Albuquerque Phoenix	El Paso	Albuquerque	El Paso	Brownsville	Brownsville Denver	Albuquerque Phoenix
3	San Antonio	Brownsville Miami	Brownsville	Albuquerque	Albuquerque 1-4-9-17	Albuquerque 9-18	Ely	Ely	Albuquerque Phoenix	Billings	San Antonio	Lake Charles	Ely
4	San Antonio	Brownsville Miami	Brownsville	Brownsville	Pensacola San Antonio	San Antonio	Ely	Ely 8-9	Miami Phoenix	San Antonio	Lake Charles 14-17	San Antonio	Ely San Antonio
5	Miami	Brownsville Miami	Tampa	Brownsville San Antonio	Pensacola	San Diego	Spokane	Pensacola	Oklahoma City 13-15	Brownsville 7-13	Miami	San Antonio	Pensacola Spokane
6	Miami	Miami	Pensacola	Brownsville	Atlanta San Diego	San Antonio	Lakehurst 13-17-18	Denver 9-13-15	Miami Phoenix	Miami	Miami	Apalachicola	Denver 9-11-13-15- 17-18
7	Tampa 13-18	Brownsville	Brownsville Miami	Miami San Antonio	Atlanta	San Antonio	Miami	Miami	San Antonio	Miami	Miami	Apalachicola 4-13	Miami
8	Apalachicola Brownsville	Pensacola	Brownsville Miami	Miami	Pensacola	Charleston San Antonio	Miami	Miami	San Antonio	Miami	Charleston	Brownsville 13-14	Miami

Numbers in above chart indicate stations at which similar maximum temperature occurred. See station reference numbers above.

MAXIMUM TEMPERATURES FOR THE CONTINENTAL UNITED STATES -- Continued

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
9	-28	-25	-26	-23	-22	-19	-16	-17	-20	-20	-23	-26	-16
10	-34	-31	-33	-31	-29	-26	-22	-23	-26	-27	-31	-32	-22
11	-36	-36	-38	-39	-39	-33	-30	-31	-33	-32	-36	-38	-30
12	-39	-39	-40	-41	-42	-40	-37	-38	-40	-38	-39	-40	-37
13	-43	-41	-42	-42	-44	-42	-42	-41	-44	-42	-43	-41	-41
14	-46	-41	-44	-42	-44	-45	-45	-42	-46	-45	-45	-43	-41
15	-45	-41	-45	-45	-44	-45	-46	-48	-46	-46	-47	-44	-41
16	-46	-44	-46	-45	-47	-45	-48	-48	-45	-48	-49	-45	-44

Station Reference Numbers. These apply to chart below.

1. Big Spring	6. Charleston	11. Lakehurst	16. Portland	21. Spokane
2. Bismarck	7. Dallas	12. Medford	17. San Antonio	22. Washington
3. Boise	8. Denver	13. Miami	18. San Diego	
4. Brownsville	9. El Paso	14. Pensacola	19. Sault Ste. Marie	
5. Caribou	10. International Falls	15. Phoenix	20. Seattle	

STATION CHART FOR MAXIMUM TEMPERATURES OF THE CONTINENTAL UNITED STATES -- Continued

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
9	Brownsville	Lake Charles	Miami	Miami	Pensacola	San Antonio	Miami	El Paso Miami	Miami 17-18	Miami	Charleston	Miami Pensacola	Miami
10	Lakehurst 13-18	Lake Charles	Miami	Miami	Pensacola	Charleston San Antonio	Miami	Miami	San Diego	Miami Oakland	Miami San Antonio	Pensacola	Miami
11	San Diego	Lake Charles	Pensacola Toledo	Apalachicola	Atlanta 4-14	Charleston	Miami	El Paso Miami	San Antonio San Diego	Oklahoma City	Caribou	Atlanta	Miami
12	Joliet San Diego	Buffalo	Glasgow	Caribou	Bismarck 10-16	Charleston 17-18	Miami Washington	Toledo 9-13	San Diego	Oklahoma City	Caribou	Caribou Portland	Miami Washington
13	Boise	Buffalo 11-22	Caribou Rapid City	S. S. Marie	St. Paul 2-3-10-12-21	Great Falls Spokane	Joliet 19-22	Buffalo San Diego	S. S. Marie	Spokane	Caribou	Caribou	Buffalo 5-11-18-22
14	Buffalo 2-19-20	Great Falls	Great Falls	Great Falls	Ely	Tatoosh Is. 3-20-21	Joliet S. S. Marie	Seattle	Glasgow	Bismarck Int. Falls	S. S. Marie	Caribou	Great Falls
15	Nashville Seattle	Int. Falls	S. S. Marie	Buffalo Denver	Portland	Tatoosh Is.	S. S. Marie	Caribou	Seattle	Bismarck	Omaha S. S. Marie	Caribou S. S. Marie	Int. Falls
16	Seattle	St. Paul	Int. Falls	Int. Falls	Caribou Spokane	Tatoosh Is.	Caribou	Caribou Seattle	Seattle	S. S. Marie Tatoosh Is.	St. Paul 3-19	S. S. Marie	St. Paul

Numbers in above chart indicate stations at which similar maximum temperature occurred. See station reference numbers above.

MINIMUM TEMPERATURES FOR THE NETWORK

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Surface	-54	-52	-50	-42	-28	-13	-6	-7	-16	-33	-48	-52	-54
1	-37	-36	-37	-35	-24	-12	-6	-9	-11	-23	-32	-37	-37
2	-40	-37	-40	-34	-29	-15	-10	-14	-16	-25	-34	-41	-41
3	-43	-39	-43	-37	-34	-18	-14	-19	-23	-31	-40	-44	-44
4	-47	-44	-46	-41	-39	-24	-19	-27	-30	-38	-43	-44	-47
5	-51	-49	-50	-47	-42	-31	-26	-35	-34	-44	-47	-50	-51
6	-56	-54	-54	-51	-45	-39	-32	-39	-41	-49	-52	-53	-56
7	-58	-57	-59	-53	-51	-44	-40	-43	-48	-55	-58	-57	-59
8	-61	-61	-63	-59	-55	-52	-46	-49	-54	-59	-62	-62	-63

Station Reference Numbers. These apply to chart below.

1. Barrow	6. Kotzebue	11. Fargo	16. Seattle
2. Bethel	7. McGrath	12. International Falls	17. Spokane
3. Fairbanks	8. Nome	13. Omaha	18. Washington
4. Juneau	9. Northway	14. Portland	
5. Ketchikan	10. Caribou	15. Sault Ste. Marie	

STATION CHART FOR MINIMUM TEMPERATURES OF THE NETWORK

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Surface	Fairbanks	Northway	Kotzebue	Kotzebue	Barrow Kotzebue	Barrow	Barrow	Barrow Fairbanks	Barrow	Fairbanks	Fairbanks	Northway	Fairbanks
1	Fairbanks Int. Falls	Caribou	Fairbanks Kotzebue	Barrow	Kotzebue	Barrow	Barrow	Barrow	Barrow	Barrow	McGrath Northway	Barrow	Barrow 3-6-12
2	Gambell	Billings Fairbanks	Fairbanks McGrath	Barrow	Kotzebue	Barrow	Barrow	Barrow	Barrow	Barrow	Barrow	Barrow	Barrow
3	S. S. Marie	Barrow Fairbanks	Barrow Fairbanks	Barrow	Kotzebue McGrath	Barrow	Barrow	Barrow Kotzebue	Bethel	Kotzebue	Barrow	Barrow	Barrow
4	Gambell	Barrow	Fairbanks	Barrow	Kotzebue McGrath	Barrow	Barrow	Barrow	Bethel	Kotzebue	Barrow	Barrow	Gambell
5	Kotzebue	Barrow	Kotzebue Northway	Barrow	Kotzebue	Barrow	Barrow	Barrow	Kotzebue S. S. Marie	Kotzebue	Barrow	Barrow	Kotzebue
6	Kotzebue	Barrow	Barrow	Barrow	Gambell	Northway	Barrow Bethel	Barrow	S. S. Marie	Kotzebue	Barrow	Barrow Nome	Kotzebue
7	Gambell Kotzebue	Barrow Nome	Barrow Bethel	Barrow Kotzebue	Gambell	Barrow Northway	Barrow 2-7	Barrow Kotzebue	Bethel	Kotzebue	Barrow	McGrath 8-10	Barrow Bethel
8	Fairbanks 4-8	Barrow Bethel	Barrow	Bethel	Gambell	Caribou	Caribou Gambell	Barrow Juneau	Barrow	Barrow Juneau	Fairbanks	Kotzebue	Barrow

Numbers in above chart indicate stations at which similar minimum temperature occurred. See station reference numbers above.

MINIMUM TEMPERATURES FOR THE NETWORK -- Continued

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
9	-66	-64	-64	-66	-59	-59	-53	-54	-58	-64	-64	-65	-66
10	-71	-67	-67	-67	-61	-60	-58	-59	-61	-65	-67	-68	-71
11	-74	-73	-72	-67	-66	-64	-61	-62	-64	-66	-68	-74	-74
12	-76	-74	-77	-72	-71	-68	-65	-67	-66	-69	-72	-73	-77
13	-79	-76	-81	-78	-75	-71	-73	-72	-72	-78	-76	-76	-81
14	-80	-76	-76	-78	-81	-78	-74	-77	-76	-77	-79	-80	-81
15	-82	-79	-82	-79	-80	-80	-80	-80	-82	-82	-83	-84	-84
16	-87	-86	-86	-86	-87	-84	-82	-83	-85	-88	-86	-84	-88

Station Reference Numbers. These apply to chart below.

- | | | | |
|--------------|-------------|-------------------------|----------------|
| 1. Barrow | 6. Kotzebue | 11. Fargo | 16. Seattle |
| 2. Bethel | 7. McGrath | 12. International Falls | 17. Spokane |
| 3. Fairbanks | 8. Nome | 13. Omaha | 18. Washington |
| 4. Juneau | 9. Northway | 14. Portland | |
| 5. Ketchikan | 10. Caribou | 15. Sault Ste. Marie | |

STATION CHART FOR MINIMUM TEMPERATURES OF THE NETWORK -- Continued

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
9	Barrow	Fairbanks	Barrow 3-7	Bethel	Ketchikan	Caribou	Gambell	Juneau	Barrow	Gambell	Barrow Ketchikan	Juneau 6-7-11	Barrow Bethel
10	Barrow	Fairbanks Fargo	Gambell	S. S. Marie	Great Falls 9-15-16-17	Anchorage 1-2	Fairbanks Northway	Fairbanks	Barrow Fairbanks	Anchorage Northway	Barrow	Barrow Gambell	Barrow
11	Barrow Fargo	Fargo	Northway S. S. Marie	Buffalo 11-14-15-18	Medford	Barrow	Denver	Juneau Northway	Barrow St. Paul	Gambell S. S. Marie	Juneau S. S. Marie	Kotzebue	Barrow 6-11
12	Bismarck	San Diego	S. S. Marie	Fargo Pensacola	Fargo	Oklahoma City	Oklahoma City 10-18	Omaha	Medford 13-16-17	Anchorage Bismarck	Portland	Juneau 5-12-15-17	S. S. Marie
13	Fargo	San Diego	Fargo	Fargo	Fargo	Fargo	Washington	Omaha	Lakehurst	S. S. Marie	Oakland	Oklahoma City	Fargo
14	Brownsville	Washington	Brownsville	Oakland	Brownsville	Fargo	Miami San Juan	Phoenix	Miami	Oklahoma City Pensacola	El Paso Miami	Miami	Brownsville
15	Brownsville	Swan Island	San Juan	Miami	Swan Island	Ely	Oklahoma City	Brownsville Lakehurst	San Juan	Miami Swan Island	Miami	Miami	Miami
16	Brownsville	San Juan	San Juan	Swan Island	Swan Island	Ely Tacubaya	Tacubaya	Brownsville	Mazatlan Tacubaya	San Juan	San Juan	Miami	San Juan

Numbers in above chart indicate stations at which similar minimum temperature occurred. See station reference numbers above.

MINIMUM TEMPERATURES FOR THE CONTINENTAL UNITED STATES

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Surface	-49	-51	-43	-28	-13	-4	-1	-4	-12	-25	-41	-44	-51
1	-37	-36	-30	-21	-10	-4	4	4	-5	-14	-22	-32	-37
2	-39	-37	-32	-24	-18	-7	-2	-5	-12	-20	-25	-32	-39
3	-43	-37	-35	-32	-22	-14	-8	-8	-19	-24	-27	-36	-43
4	-46	-42	-40	-36	-26	-22	-14	-14	-27	-30	-38	-43	-46
5	-48	-45	-45	-41	-32	-28	-22	-22	-34	-34	-40	-44	-48
6	-52	-48	-50	-49	-38	-36	-29	-29	-41	-42	-46	-49	-52
7	-56	-53	-54	-51	-47	-42	-38	-36	-42	-49	-52	-57	-57
8	-60	-58	-61	-58	-52	-52	-46	-44	-49	-57	-60	-59	-61

Station Reference Numbers. These apply to chart below.

- | | | |
|------------------------|----------------|---------------------|
| 1. Brownsville | 6. Lakehurst | 11. Sault Ste Marie |
| 2. Buffalo | 7. Miami | 12. Seattle |
| 3. Caribou | 8. Omaha | 13. Spokane |
| 4. Great Falls | 9. Portland | 14. Washington |
| 5. International Falls | 10. Rapid City | |

STATION CHART FOR MINIMUM TEMPERATURES OF THE CONTINENTAL UNITED STATES

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
Surface	Glasgow	Glasgow	Glasgow	Glasgow	Cheyenne Int. Falls	Ely Glasgow	Int. Falls	Cheyenne	Bismarck Great Falls	Rapid City	Glasgow	Glasgow	Glasgow
1	Int. Falls	Caribou	Int. Falls St. Paul	Fargo	Caribou Int. Falls	Caribou	Buffalo S. S. Marie	Fargo 9-11	Cheyenne Int. Falls	Omaha	Bismarck	Caribou	Int. Falls
2	Caribou	Billings	Int. Falls S. S. Marie	Fargo	Caribou Int. Falls	Cheyenne 3-11	S. S. Marie	Fargo Portland	St. Paul	Billings	Boston Glasgow	Caribou	Caribou
3	S. S. Marie	Buffalo Cheyenne	S. S. Marie	Cheyenne	Int. Falls	Cheyenne S. S. Marie	Caribou 11-12	Buffalo 3-11	Bismarck S. S. Marie	Spokane	Caribou 2-5	S. S. Marie	S. S. Marie
4	S. S. Marie	Cheyenne	Int. Falls	Cheyenne	Caribou	Cheyenne	Caribou 5-11	Albany 9-11	S. S. Marie	Spokane S. S. Marie	Boston	S. S. Marie	S. S. Marie
5	Bismarck S. S. Marie	Int. Falls	Bismarck Int. Falls	S. S. Marie	Caribou Int. Falls	S. S. Marie	Seattle	Seattle	S. S. Marie	Bismarck 5-11-13	S. S. Marie	Caribou S. S. Marie	Bismarck S. S. Marie
6	Bismarck Int. Falls	Caribou S. S. Marie	Int. Falls S. S. Marie	S. S. Marie	Caribou 5-12	S. S. Marie	Seattle	Seattle	S. S. Marie	Int. Falls	S. S. Marie	Caribou S. S. Marie	Bismarck Int. Falls
7	S. S. Marie	Fargo S. S. Marie	Glasgow 4-5	Albany 6-11	Int. Falls Seattle	Caribou	Caribou	Seattle	S. S. Marie Spokane	Int. Falls	Great Falls S. S. Marie	Caribou	Caribou
8	S. S. Marie	S. S. Marie	Glasgow	Fargo	Tatoosh Is. 4-11-12-13	Caribou	Caribou	S. S. Marie	Tatoosh Is.	Int. Falls	Great Falls	Caribou Spokane	Glasgow

Numbers in above chart indicate stations at which similar minimum temperatures occurred. See station reference numbers above.

MINIMUM TEMPERATURES FOR THE CONTINENTAL UNITED STATES -- Continued

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
9	-65	-63	-61	-61	-57	-59	-50	-51	-54	-58	-60	-65	-65
10	-70	-67	-65	-67	-61	-58	-56	-53	-57	-64	-64	-67	-70
11	-74	-73	-72	-67	-66	-63	-59	-61	-64	-66	-68	-72	-74
12	-76	-74	-77	-72	-71	-68	-65	-67	-66	-69	-72	-73	-77
13	-79	-76	-81	-78	-75	-71	-73	-72	-72	-78	-76	-76	-81
14	-80	-76	-76	-78	-81	-78	-74	-77	-76	-77	-79	-80	-81
15	-82	-78	-76	-79	-75	-80	-80	-80	-80	-82	-83	-84	-84
16	-87	-80	-81	-78	-79	-84	-80	-83	-82	-84	-84	-84	-87

Station Reference Numbers. These apply to chart below.

- | | | |
|------------------------|----------------|---------------------|
| 1. Brownsville | 6. Lakehurst | 11. Sault Ste Marie |
| 2. Buffalo | 7. Miami | 12. Seattle |
| 3. Caribou | 8. Omaha | 13. Spokane |
| 4. Great Falls | 9. Portland | 14. Washington |
| 5. International Falls | 10. Rapid City | |

STATION CHART FOR MINIMUM TEMPERATURES OF THE CONTINENTAL UNITED STATES -- Continued

Altitude (Km.)	January	February	March	April	May	June	July	August	September	October	November	December	Annual
9	S. S. Marie Seattle	Fargo	Fargo	Great Falls	Tatoosh Is.	Caribou	Caribou 5-9	Seattle	Great Falls	Int. Falls	Great Falls	Fargo	Fargo 11-12
10	Bismarck	Fargo	Boise Denver	S. S. Marie	Great Falls 11-12-13	Caribou S. S. Marie	Caribou	Caribou S. S. Marie	Int. Falls 12-13	S. S. Marie	St. Paul 10-11	Caribou	Bismarck
11	Fargo	Fargo	S. S. Marie	Fargo 2-9-11-14	Medford	Spokane	Fargo 3-11	Joliet Omaha	St. Paul	S. S. Marie	S. S. Marie	Fargo	Fargo
12	Bismarck	San Diego	S. S. Marie	Fargo Pensacola	Fargo	Oklahoma City	Oklahoma City 3-14	Omaha	Medford 8-12-13	Bismarck	Portland	Int. Falls 11-13	S. S. Marie
13	Fargo	San Diego	Fargo	Fargo	Fargo	Fargo	Washington	Omaha	Lakehurst	S. S. Marie	Oakland	Oklahoma City	Fargo
14	Brownsville	Washington	Brownsville	Oakland	Brownsville	Fargo	Miami	Phoenix	Miami	Oklahoma City Pensacola	El Paso Miami	Miami	Brownsville
15	Brownsville	Brownsville	Brownsville Miami	Miami	Charleston 1-7	Ely	Oklahoma City	Brownsville Lakehurst	Brownsville San Antonio	Miami	Miami	Miami	Miami
16	Brownsville	Miami	Brownsville	Brownsville Miami	Brownsville	Ely	Oklahoma City	Brownsville	Brownsville	Charleston	Miami	Miami	Brownsville

Numbers in above chart indicate stations at which similar minimum temperatures occurred. See station reference numbers above.

RANGE OF TEMPERATURE FOR THE NETWORK

(Difference between absolute Maximum and Minimum)

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Surface	86	86	89	81	74	61	54	53	61	74	85	86	102
1	62	62	63	65	58	51	46	47	48	54	58	61	77
2	60	60	65	61	56	46	43	45	45	49	56	60	74
3	61	55	61	56	54	40	39	42	43	49	57	60	69
4	58	56	56	53	51	39	34	41	44	51	54	55	62
5	55	54	57	55	50	39	34	43	40	51	54	57	59
6	53	55	53	51	46	38	32	39	40	50	50	52	57
7	48	49	51	47	45	37	36	38	43	49	50	49	55
8	46	45	48	46	41	37	36	38	43	47	47	47	53

RANGE OF TEMPERATURE FOR THE NETWORK -- Continued

(Difference between absolute Maximum and Minimum)

Altitude (Km.)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
9	44	42	43	46	37	40	37	37	40	44	43	43	50
10	44	38	39	39	32	34	36	36	36	38	39	38	49
11	39	37	37	32	29	31	29	31	31	34	33	38	44
12	37	35	38	33	33	30	29	30	26	31	33	33	41
13	38	36	43	39	36	32	35	34	31	36	34	36	43
14	39	35	38	38	41	38	35	39	34	36	38	40	43
15	41	39	43	38	39	40	41	41	40	39	44	44	45
16	37	44	47	46	46	44	43	44	44	44	44	43	49

CONVERSION SCALES

