

CLIMATIC CHARACTERISTICS

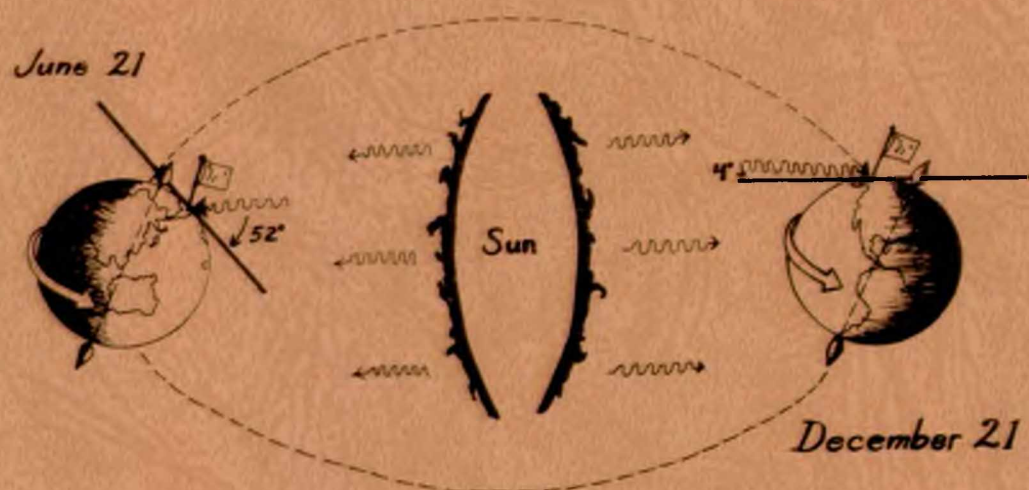
of Selected

ALASKAN LOCATIONS

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This publication is primarily intended to assist in the process of agricultural resource evaluation of certain areas with known positive attributes. Climatic indices, which are useful in comparing the agricultural potential such as growing degree days, length of growing season, and others, have been tabulated for selected locations for which continuous long term weather records exist.

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COVER

This drawing shows the considerable contrast between summer and winter in the angle between the earth's surface and incoming solar radiation at the latitude of Palmer, Alaska (61.5° North). As shown at left, the north pole is oriented toward the sun at the summer solstice (June 21) and the angle of incoming rays from the sun is 52° above horizontal.

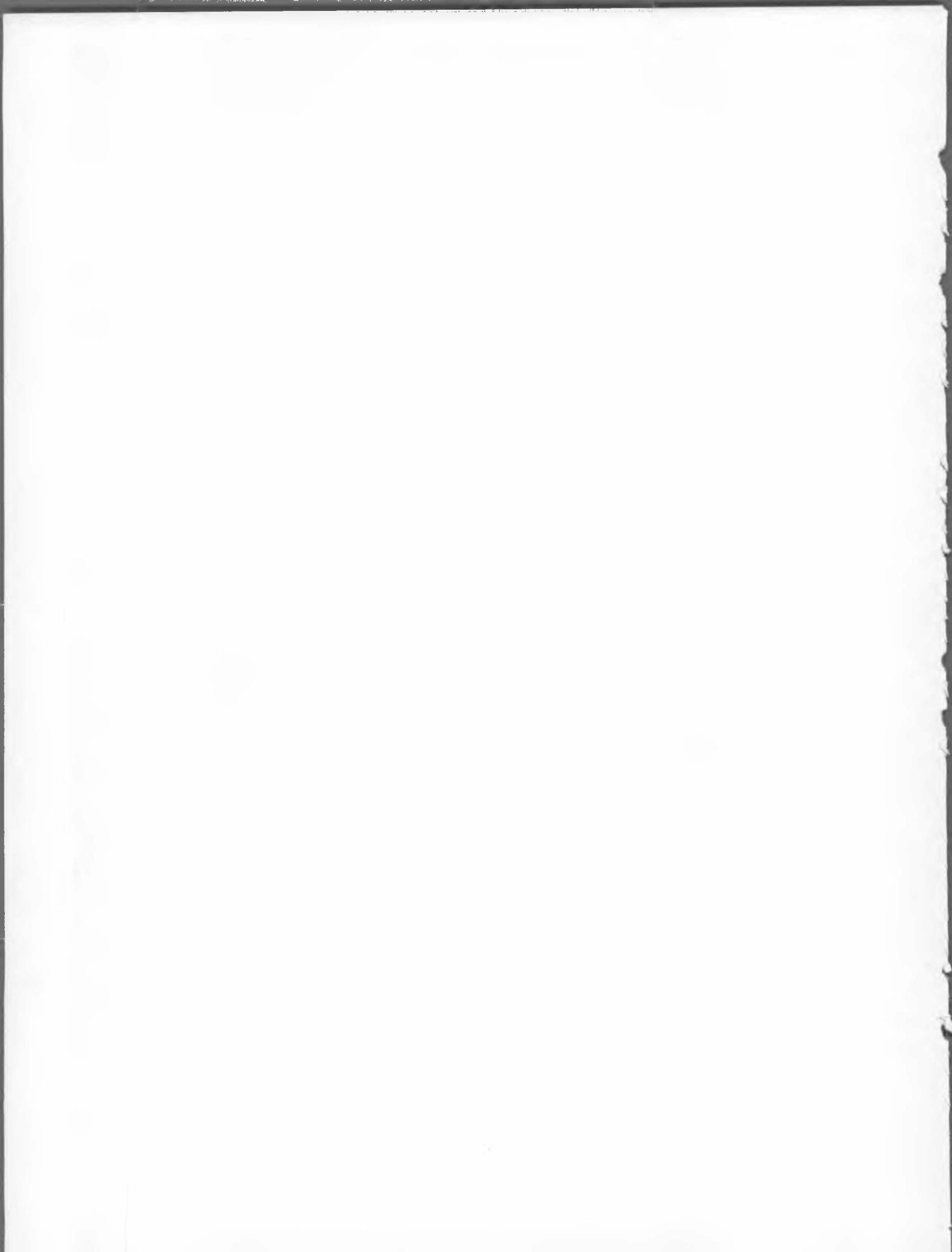
At the winter solstice (December 21), as shown at right, the north pole is tilted away from the sun; then the sun's rays strike only 4° above horizontal providing much less heat at this latitude.

Watson, C E

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CLIMATIC CHARACTERISTICS OF SELECTED ALASKAN LOCATIONS

by

C. E. Watson¹, C. I. Branton², and J. E. Newman³

Climate, the average weather of an area, is a basic natural resource that affects and limits many of man's activities. An understanding of this very important and multi-faceted influence is essential in planning for the best use of an area. Few people — even in Alaska, realize the vast range of climatological conditions which are encountered within the State. A review of the pronounced characteristics of precipitation, wind, and the closely related elements of temperature and possible sunshine will lend some emphasis to the wide variations to be found within Alaska.

Annual precipitation exceeds 200 inches in the vicinity of Little Port Walter (at the southern tip of Baranof Island). The highest daily, monthly, and annual rainfall records are held by stations in the maritime zone, which includes Southeastern Alaska, the Gulf Coast, the islands of the Gulf of Alaska and the Aleutian Chain. The records established for these periods are unrivaled in the continental United States and are equaled or exceeded only by a few reporting stations in tropical areas. At the other extreme, annual precipitation totals only four to six inches along the Arctic Coast and in the Interior Basin. These lighter rainfall amounts in Alaska are matched elsewhere in the U.S. only by the arid regions of the Southwest.

There is wide variation in averages and extreme wind speeds in different areas of Alaska. Terrain plays an important role in determining wind flow patterns even in the

sheltered Interior. Unfortunately, wind data for Alaska are quite limited and these have been largely the by-product of aviation weather observations. Only during the past ten years have systematic efforts been made to collect wind data for other specialized requirements.

Since the temperature aspect of Alaska's climate is the major limiting factor in human endeavor, its general characteristics will be considered in greater detail.

Alaska's range in duration of possible daily sunshine varies from 24 hours in late June to an almost negligible amount in late December. This is the principle cause of the wide range of seasonal temperature extremes at individual stations, particularly in Alaska's interior. At Fort Yukon and Eagle, temperatures⁴ range more than 170°. (The State's maximum recorded temperature range of 180° derives from the highest extreme of 100° at Fort Yukon to the lowest of -80° at Prospect Creek.)

During the long winter nights, stations in these northern latitudes experience an almost continuous loss of heat through radiation. This frequently results in extended periods of extreme cold such as that experienced at Fort Yukon in December, 1917, when the monthly mean temperature was approximately -50°. During such periods it is not uncommon for maximum daily readings to be -55° or -60°.

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⁴ All temperatures referred to in this publication are in Fahrenheit degrees unless otherwise noted.

The daily range of temperature from the maximum to the minimum is less pronounced than in most other U.S. areas. This is due principally to the marked shift in hours of possible sunshine from the summer to the winter season.

Four factors tend to lessen the daily temperature fluctuation in Alaska (the first three result from the relative seasonal positions of the sun and the earth): (1) During summer, when the daily hours of possible sunshine exceed 20 for most of Alaska's mainland, there is only a brief period between sunset and sunrise when radiational cooling predominates. (2) Even during the longest days of the year, the angular relationship of the earth's surface

and the sun's rays is such that there is no pronounced peak in surface heating. (3) During the shortest days of winter, the possible hours of sunshine are not only greatly reduced, but the sun's rays strike the surface at such a relatively low angle, even at mid-day, that little effective heating is realized and the amount received may be almost entirely lost through reflection from snow-covered surfaces. (4) The open ocean and, in some cases, lesser bodies of water located in the mainland area have a suppressing influence on temperature fluctuations. The maritime influence is most pronounced in the coastal and island areas of the Gulf of Alaska. Topography frequently controls the extent to which modifying influences from the ocean penetrate the Interior.

EXPLANATION OF DATA, TABLES AND CHARTS

Data Presented in Figure 2 and Table 1

A chart showing hours of possible sunshine for northern latitudes is provided in Figure 2. Table 1 presents cumulative hours of possible sunshine by weeks from March thru October on the basis of the two degrees of latitude intervals presented in Figure 2. Figure 2 and Table 1 can be used to determine sunshine data for any location between 50° and 72° N. Latitude. Table 2 gives latitude coordinates for specific locations in Alaska. The chart and table provide only daily and cumulative values for sunshine, a major parameter of interest in agriculture. Those wishing specific times of sunrise and sunset are referred to other sources.⁵

Data Presented in Tables 2 and 3

Data sources were selected for Table 2 on the basis of (1) length of record, (2) data reliability, and (3) comparability of the specific station to the general area in which

it is located.

Heating degree days calculated for two temperature levels are shown in Table 2. "Degree Days 65°" and "Degree Days 35°" are tabulations of deficiencies of daily mean temperature on their respective temperature levels. When the mean temperature for an individual day falls short of 65° or 35° the actual deficiency in degrees represents the degree days for that day for each respective level. If the average of the maximum and minimum temperatures (mean temperature) for a certain day is 29°, the heating degrees on a 65° basis is 65° - 29° or 36°, whereas on the 35° basis it is 6 degrees days. In both cases when the mean daily temperature equals or is above the degree day base, no heating degree days are recorded. In both cases the total degree days for a given month is the sum of the degree days for the individual days of the month. The values tabulated here for individual months are the averages of the respective months for the record period.

⁵Tables of Sunrise and Sunset were recomputed in 1959 by the U.S. Naval Observatory for the fifteen First Order Weather Bureau stations in Alaska. Since that time additional tables have been prepared for other important FAA stations. These tables are available from the Office of the Regional Climatologist, NOAA, EDS, Hill Building, 632 6th Avenue, Anchorage, Alaska. Or the tables may be obtained by ordering directly from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C.

The "Daily Maximum" and "Daily Minimum" contain the averages of all daily high and low temperatures occurring during the month. Mean daily temperatures are not provided in Table 2, but can be obtained by taking the average of the two values. The "Highest Recorded" is the extreme high reached in the indicated month for the entire record period.

Monthly "Totals" of precipitation include the inches of water contained in the "Snowfall" in addition to any "Rainfall."

Tabulations in Table 2 provide an array of monthly data dealing with general climatic conditions, but do not provide the detailed information needed for the selection of areas with agricultural potential. For example, monthly averages of total precipitation tell us little or nothing about the distribution of precipitation. This has led agriculturists, and climatologists dealing with agricultural requirements, to reduce the unit data period to a weekly basis as presented in Table 3.

Table 3 provides details concerning the duration of warmth needed in the tabulation of "Growing Degree Days";⁶ this appears in two categories; one to a base of 32° and another to a base of 40°. Computations of growing degree days follow the same lines used in determining heating degree days except that the former deals with the excess of the mean daily temperature above the base.

Table 3 also provides mean weekly cumulative data on precipitation.

⁶For example, with high and low temperatures for a day of 70° and 50°, the growing degree days for that day are $(70^{\circ} + 50^{\circ})/2 - 40^{\circ} = 20^{\circ}$.

Data Presented in Tables 4, 5, 6 and 7

Agriculture is concerned with precipitation, temperature and other environmental parameters in the spring planting season and during the time when plant growth is possible. Consequently, the need for a well defined "growing season" is paramount. This can be obtained from the data in Tables 4, 5, 6 and 7.

The average number of days that the temperature remains above 20°, 24°, 28° and 32° at specific locations is shown in Table 4. The average dates for last spring and first autumn occurrence of these temperatures and the mean deviations of days from these dates for the same locations are shown in Tables 5 and 6.

The mean deviation value given (for all the years of record⁷ considered in this study) is the average number of days the final or initial occurrence of a given temperature digressed from the date shown.

The standard deviation (S') is the average of the standard deviations for all four temperature thresholds at each station (three for Ketchikan). It indicates that about seventy percent of the time an annual temperature occurrence can be anticipated within that number of days of the average date shown.

In 19 out of 20 years an annual temperature occurrence at the four threshold values given can be expected within 2 times "S" days of the average date shown.

⁷Table 5.

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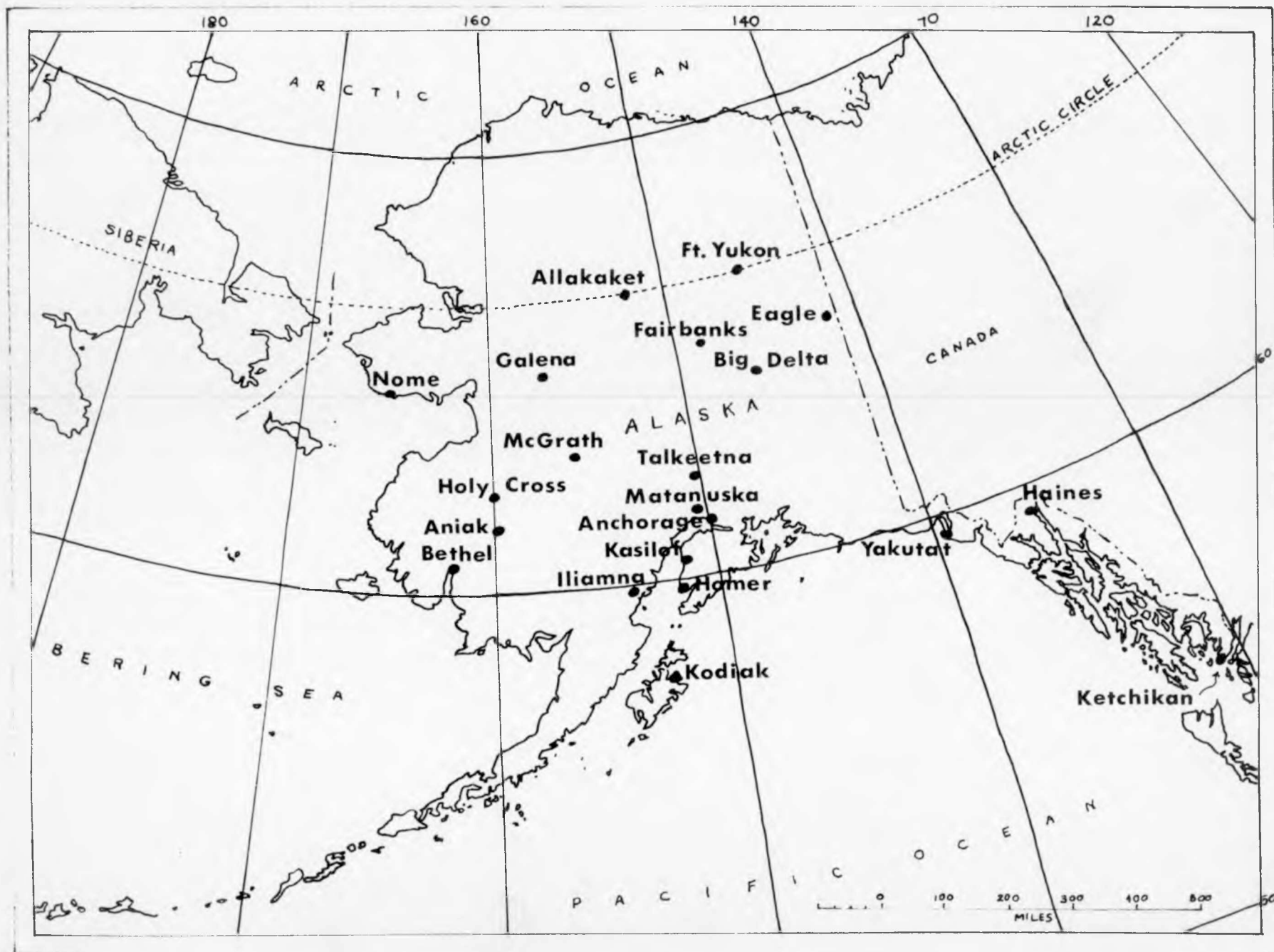


Figure 1. Locations Selected for Climatic Analysis

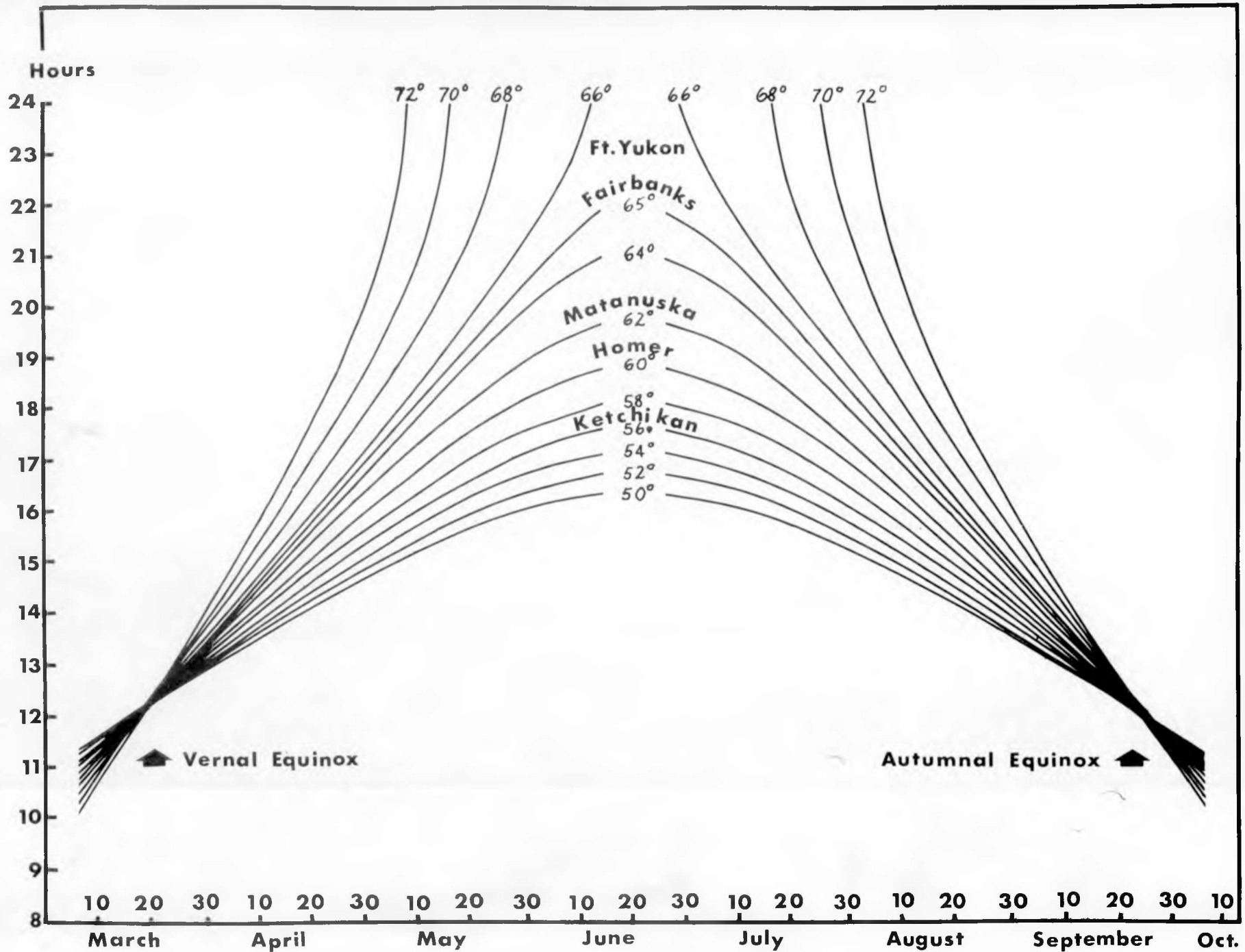


Fig. 2. HOURS OF POSSIBLE SUNSHINE

Table 1. CUMULATIVE HOURS OF POSSIBLE SUNSHINE (Hours and Tenths), LATITUDES 50° - 72° N. MARCH THROUGH OCTOBER

Week of	50°	52°	54°	56°	58°	60°	62°	64°	66°	68°	70°	72°
3/ 1	78.0	77.6	77.1	76.5	75.8	75.1	74.3	73.4	72.4	71.1	69.6	67.8
3/ 8	159.1	158.4	157.6	156.8	155.8	154.6	153.5	152.1	150.5	148.6	146.4	143.7
3/15	243.3	242.6	241.8	240.9	239.9	238.7	237.5	236.1	234.5	232.6	230.3	227.6
3/22	330.6	330.1	329.5	328.9	328.1	327.3	326.5	338.6	324.3	322.9	321.4	319.5
3/29	420.9	420.8	420.7	420.6	420.5	420.3	420.2	420.0	419.9	419.7	419.6	419.4
4/ 5	514.2	514.8	514.4	516.2	516.9	517.8	518.8	519.9	521.4	523.0	525.1	527.7
4/12	610.5	612.1	613.6	615.4	617.4	619.7	622.3	625.2	678.8	633.0	638.1	644.7
4/19	709.7	712.4	715.2	718.4	721.9	726.0	730.6	735.8	742.2	749.8	759.2	771.3
4/26	811.8	815.6	820.1	825.0	830.4	836.6	843.6	852.9	861.8	873.8	888.9	909.2
5/ 3	916.5	922.1	943.6	935.1	942.7	951.4	961.4	974.3	987.7	1005.4	1028.5	1065.2
5/10	1023.6	1031.1	1039.1	1048.4	1058.5	1070.3	1083.9	1101.1	1120.0	1145.2	1172.7	1233.2
5/17	1133.1	1142.5	1152.8	1164.6	1177.7	1192.9	1210.7	1233.4	1258.9	1295.1	1360.7	1401.2
5/24	1244.4	1256.1	1268.8	1283.4	1299.8	1318.9	1341.4	1369.2	1404.6	1460.2	1518.7	1569.2
5/31	1357.3	1371.2	1386.7	1404.3	1406.4	1447.6	1475.5	1511.0	1557.7	1628.2	1686.7	1737.2
6/ 7	1471.2	1487.6	1505.9	1526.7	1550.5	1578.4	1612.1	1655.8	1720.3	1796.2	1854.7	1905.2
6/14	1585.8	1604.7	1625.8	1649.9	1677.6	1710.3	1750.1	1802.6	1888.3	1964.2	2022.7	2073.2
6/21	1700.3	1721.8	1745.7	1773.2	1804.8	1842.3	1888.2	1949.5	2056.3	2132.2	2190.7	2241.2
6/28	1814.4	1838.4	1865.1	1895.8	1931.1	1973.3	2025.2	2094.8	2220.6	2300.2	2358.7	2409.2
7/ 5	1927.4	1953.8	1983.2	2017.0	2055.9	2102.5	2159.8	2236.7	2375.0	2468.2	2526.7	2577.2
7/12	2039.1	2067.7	2099.6	2136.2	2178.5	2229.0	2291.2	2374.5	2522.1	2635.1	2694.7	2745.2
7/19	2148.9	2179.5	2213.8	2253.0	2298.3	2352.3	2418.7	2507.4	2642.6	2787.5	2862.7	2913.2
7/26	2271.7	2289.0	2325.3	2367.0	2414.8	2471.9	2542.0	2635.2	2795.8	2932.1	3020.6	3081.2
8/ 2	2361.7	2395.9	2434.0	2477.6	2527.8	2587.6	2660.8	2757.7	2923.0	3065.1	3162.6	3241.0
8/ 9	2464.4	2499.9	2539.6	2584.9	2637.1	2699.2	2774.9	2874.9	3043.9	3191.8	3294.3	3381.7
8/16	2564.2	2600.9	2641.9	2688.7	2742.5	2806.4	2884.3	2986.8	3158.7	3310.3	3417.2	3510.7
8/23	2661.2	2698.9	2741.0	2788.9	2844.0	2909.4	2988.9	3093.4	3267.6	3422.8	3532.2	3630.0
8/30	2755.4	2793.7	2836.6	2885.4	2941.5	3007.9	3088.8	3207.7	3370.5	3527.8	3639.6	3740.4
9/ 6	2846.5	2885.3	2928.7	2978.1	3034.9	3102.0	3183.8	3194.6 ⁵²¹	3467.7	3626.3	3739.7	3842.5
9/13	2934.6	2973.7	3017.4	3066.1	3124.3	3191.8	3274.0	3290.6 ⁵²²	3559.1 ¹⁹¹¹³	3718.4	3832.7	3936.6
9/20	3019.7	3058.8	3102.6	3152.3	3209.6	3277.4	3359.5	3467.0 ⁵²³	3643.8 ^{1/20}	3804.3	3918.7	4022.8
9/27	3101.8	3140.6	3184.3	3233.8	3290.8	3358.3	3440.2	3547.3	3724.6	3885.8	3997.7	4101.1
10/ 4	3180.8	3219.3	3262.4	3311.6	3368.0	3434.9	3516.1	3622.5	3798.7	3959.0	4069.6	4171.6
10/11	3256.8	3294.7	3337.2	3385.5	3441.1	3507.1	3587.2	3692.4	3867.1	4025.8	4134.4	4233.9
10/18	3329.9	3366.9	3408.4	3455.8	3510.2	3574.9	3653.5	3757.0	3929.8	4086.0	4191.8	4287.7
10/25	3400.1	3436.1	3476.4	3522.4	3575.3	3638.3	3715.1	3816.4	3986.5	4139.6	4241.5	4332.4

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR ALLAKAKET, ALASKA (66° 34' N, 152° 44' W, 600 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	-7.5	1.5	14.1	33.8	53.9	69.9	70.8	64.2	50.4	29.3	5.2	-5.6	31.7
Daily Min.	-30.6	-25.3	-17.7	3.2	29.0	42.6	45.1	39.8	30.0	11.9	-14.4	-27.0	7.2
Record High	37	48	45	65	83	92	94	87	82	55	43	39	94
Record Low	-72	-70	-68	-45	-17	20	26	17	-4	-41	-61	-69	-72
Days													
Max. \leq 32° F.	31	28	29	14	1	0	0	0		20	30	31	184
Max. \geq 70° F.	0	0	0	0	2	14	17	6		0	0	0	39
Deg. Days 65° F.*	2564	2218	2195	1360	700	252	232	351	721	1398	2008	2388	16387
Deg. Days 35° F.*	1404	1249	1084	477	70	0	0		78	499	1098	1430	7389
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.0	0.0	0.63	1.39	2.27	2.71	1.53	.33	0.0	0.0	8.86
Snowfall	13.3	12.3	10.4	3.6	0.7	T	0.0	T	0.8	10.2	12.4	12.5	76.4
Total	0.94	0.72	0.59	0.28	0.68	1.39	2.27	2.71	1.59	1.11	0.83	0.76	13.87
Days - Rainfall is:													
\geq .10 in.	5	2	3	1	2	3	8	9	5	5	4	3	50
\geq .50 in.	**	**	**	**	**	1	1	2	1	**	**	**	5

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR ANCHORAGE, ALASKA (61° 10' N, 149° 59' W, 90 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	20.5	26.4	32.6	43.8	53.9	62.6	64.6	63.2	55.3	41.8	28.9	21.8	43.0
Daily Min.	4.3	9.5	13.9	27.5	37.8	46.3	49.5	48.0	40.2	28.2	15.5	6.8	27.3
Record High	56	57	56	63	82	86	83	82	73	63	60	53	86
Record Low	-35	-38	-22	-21	1	31	35	31	19	-6	-21	-33	-38
Days													
Max. \leq 32° F.	27	22	15	3	1	0	0			5	20	27	120
Max. \geq 70° F.	0	0	0	0		4	7	3		0	0	0	14
Deg. Days 65° F.*	1631	1316	1293	879	592	315	245	291	516	930	1284	1572	10864
Deg. Days 35° F.*	697	475	378	68	3	0	0	0	0	93	432	672	2818
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.0	0.14	0.45	0.98	1.86	2.57	2.50	1.42	0.22	0.0	10.14
Snowfall	11.2	9.9	8.1	3.8	0.5	0.0	0.0	0.0	T	5.8	10.8	13.2	63.3
Total	0.80	0.71	0.51	0.42	0.52	0.98	1.86	2.57	2.50	1.87	1.03	0.94	14.71
Days - Rainfall is:													
\geq .10 in.	3	4	2	2	2	4	7	7	7	5	4	4	51
\geq .50 in.	**	**	0	**	**	1	1	2	1	1	**	**	6

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR ANIAK, ALASKA (61° 35' N, 159° 32' W, 81 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	9.0	16.0	22.0	36.9	52.5	64.0	64.9	60.0	52.1	36.8	22.4	8.0	37.1
Daily Min.	-9.5	-3.9	0.2	18.1	32.7	42.3	46.2	44.9	36.4	23.2	7.2	-8.5	15.1
Record High	48	48	50	63	81	92	87	81	73	63	51	43	92
Record Low	-62	-56	-51	-34	-3	28	31	24	14	-17	-39	-55	-62
Days													
Max. \leq 32° F.	26	22	22	8	1	0	0	0	0	10	22	27	138
Max. \geq 70° F.	0	0	0	0		7	8	3		0	0	0	18
Deg. Days 65° F.*	1984	1680	1665	1174	686	370	284	371	605	1131	1521	2072	13543
Deg. Days 35° F.*	1006	872	730	271	24	0	0	0	9	213	620	1144	4889
PRECIPITATION													
Inches													
Rainfall	0.14	0.27	0.15	0.17	1.02	1.55	2.21	5.34	3.32	1.21	0.33	0.16	15.86
Snowfall	9.5	9.7	9.8	3.6	0.7	T	0.0	T	0.1	4.6	10.7	11.7	60.4
Total	0.87	1.01	0.91	0.45	1.07	1.55	2.21	5.34	3.32	1.56	1.15	1.06	20.50
Days - Rainfall is:													
\geq .10 in.	3	2	4	3	3	4	8	11	9	3	3	4	57
\geq .50 in.	**	**	**	**	**	1	1	3	2	**	**	**	7

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR BETHEL, ALASKA (60° 47' N, 161° 48' W, 125 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	10.8	14.1	19.4	33.9	47.0	59.6	61.8	58.3	51.1	37.6	24.2	12.7	35.9
Daily Min.	-3.7	2.2	3.8	17.9	31.0	43.5	47.5	46.2	38.1	25.1	10.1	-3.2	21.5
Record High	48	47	48	58	76	86	86	81	70	65	48	45	86
Record Low	-52	-45	-42	-31	-5	28	31	30	18	-5	-27	-44	-52
Days													
Max. \leq 32° F.	24	22	22	11	2	0	0	0	0	10	21	3	115
Max. \geq 70° F.	0	0	0	0		5	6	2		0	0	0	13
Deq. Days 65° F.*	1903	1590	1655	1173	806	402	319	394	612	1042	1434	1866	13196
Deq. Days 35° F.*	942	823	730	366	45	0	0	0	3	187	539	994	4629
PRECIPITATION													
Inches													
Rainfall	0.31	0.31	0.17	0.23	0.87	1.18	2.03	4.20	2.56	1.28	0.48	0.24	13.86
Snowfall	10.5	10.5	11.2	4.6	1.1	T	0.0	0.0	0.4	3.4	7.6	10.2	59.5
Total	1.12	1.12	1.03	0.58	0.95	1.18	2.03	4.20	2.59	1.54	1.06	1.02	18.42
Days - Rainfall is:													
\geq .10 in.	3	2	3	2	3	4	6	10	9	3	2	2	49
\geq .50 in.	1	1	**	0	**	**	**	3	1	**	0	1	7

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR BIG DELTA, ALASKA (64° 00' N, 145° 44' W, 1,268 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	2.7	11.3	22.8	39.5	57.1	67.1	69.1	64.0	51.8	32.5	14.4	3.2	36.3
Daily Min.	-12.2	-6.4	0.2	18.9	36.9	47.1	50.1	45.6	35.3	18.5	0.6	-11.2	18.6
Record High	46	51	52	71	90	88	91	86	77	62	50	48	91
Record Low	-63	-60	-48	-37	-1	32	35	22	7	-24	-43	-62	-63
Days													
Max. \leq 32° F.	29	25	22	8	1	0	0	0	1	16	26	30	158
Max. \geq 70° F.	0	0	0		2	10	14	8	1	0	0	0	35
Deq. Days 65° F.*	2132	1801	1677	1074	582	248	177	293	635	1256	1748	2200	13823
Deq. Days 35° F.*	1214	955	744	237	13	0	0	0	19	322	835	1250	5589
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.0	0.04	0.84	2.26	2.68	2.00	1.14	0.01	0.0	0.01	8.98
Snowfall	6.3	4.5	4.6	2.2	0.2	T	0.0	T	1.3	6.6	4.9	5.6	36.2
Total	0.38	0.31	0.30	0.21	0.86	2.26	2.68	2.00	1.24	0.52	0.33	0.44	11.53
Days - Rainfall is:													
\geq .10 in.	1	1	1	1	2	6	6	6	4	2	1	1	33
\geq .50 in.	**	0	0	**	**	1	1	1	**	**	0	**	3

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR EAGLE, ALASKA (64° 46' N, 141° 12' W, 821 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	-4.5	4.6	21.7	40.4	58.5	70.2	72.6	66.9	52.7	33.5	11.5	-2.6	35.5
Daily Min.	-23.5	-15.1	-5.5	-12.8	31.6	42.8	46.3	41.0	31.9	19.5	-3.4	-17.3	13.4
Record High	47	47	56	71	86	92	95	88	79	68	50	44	95
Record Low	-75	-74	-58	-38	2	22	25	16	2	-28	-54	-69	-75
Days													
Max. \leq 32° F.	30	26	23	6	1	0	0	0		14	29	30	159
Max. \geq 70° F.	0	0	0		3	16	20	12	1	0	0	0	52
Deg. Days 65° F.*	2503	2008	1818	1166	630	264	177	333	684	1226	1820	2428	15057
Deg. Days 35° F.*	1563	1162	888	303	15	0	0	1	20	329	951	1394	6626
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.0	0.10	0.81	1.56	1.92	2.02	1.24	0.21	0.0	0.0	7.86
Snowfall	8.4	4.8	4.6	3.6	0.4	0.0	0.0	0.2	1.4	8.1	8.6	9.7	49.8
Total	0.49	0.34	0.34	0.38	0.84	1.56	1.42	2.04	1.35	0.83	0.52	0.52	11.13
Days - Rainfall is:													
\geq .10 in.	2	1	1	1	3	6	7	7	5	4	2	2	41
\geq .50 in.	**	0	0	**	**	1	1	1	**	**	**	0	3

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR FAIRBANKS (UES), ALASKA (64° 51' N, 147° 52' W, 481 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	1.7	12.0	24.8	42.7	60.2	71.7	72.7	67.3	55.4	36.1	13.8	2.3	38.4
Daily Min.	-16.0	-8.7	1.2	17.0	33.6	44.1	46.8	43.0	33.6	18.6	-2.3	-14.1	16.2
Record High	42	49	56	71	88	95	99	90	85	67	59	58	99
Record Low	-65	-59	-56	-32	0	26	29	19	7	-28	-54	-62	-65
Days													
Max. \leq 32° F.	30	25	21	5		0	0	0		11	20	27	139
Max. \geq 70° F.	0	0	0		5	18	21	12	1	0	0	0	57
Deg. Days 65° F.*	2241	1795	1624	1029	561	237	174	322	615	1163	1764	2198	13723
Deg. Days 35° F.*	1401	1093	713	204	10	0	0	0	12	280	964	1401	6078
PRECIPITATION													
Inches													
Rainfall	0.01	0.0	0.0	0.09	0.78	1.48	2.10	2.43	1.32	0.39	0.04	0.0	8.64
Snowfall	10.9	7.0	6.6	2.0	0.2	0.0	0.0	0.1	0.6	7.0	7.7	8.5	50.6
Total	0.83	0.51	0.42	0.24	0.80	1.48	2.10	2.44	1.36	0.93	0.63	0.57	12.31
Days - Rainfall is:													
\geq .10 in.	3	2	1	1	2	4	5	6	4	3	1	2	34
\geq .50 in.	0	0	**	0	**	1	1	1	1	**	**	**	4

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR FORT YUKON, ALASKA (66° 35' N, 145° 18' W, 419 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	-11.7	-4.4	11.1	34.5	55.4	69.8	72.1	66.0	50.8	28.0	2.9	-11.6	30.2
Daily Min.	-29.0	-24.8	-12.2	8.1	31.3	47.0	50.3	44.4	32.0	13.0	-11.8	-27.9	10.0
Record High	40	41	50	65	85	100	97	88	79	61	40	37	100
Record Low	-69	-70	-51	-41	-3	25	25	22	4	-37	-61	-71	-71
Days													
Max. \leq 32° F.	31	28	29	12	1	0	0	0	1	21	30	31	184
Max. \geq 70° F.	0	0	0	0	2	16	19	9	1	0	0	0	47
Deg. Days 65° F.*	2654	2323	1984	1309	669	213	138	314	721	1386	2089	2687	16487
Deg. Days 35° F.*	2015	1649	1054	429	33	0	0	0	35	464	1364	1829	8872
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.0	0.0	0.27	0.64	0.89	1.14	0.64	0.0	0.0	0.0	3.58
Snowfall	7.4	6.4	5.3	2.3	0.7	0.0	0.0	T	1.8	7.9	7.6	5.8	45.2
Total	0.46	0.35	0.32	0.18	0.32	0.64	0.89	1.14	0.78	0.58	0.48	0.38	6.52
Days													
\geq .10 in.	2	1	1	1	1	2	3	3	3	2	2	1	22
\geq .50 in.	0	0	0	0	0	**	**	1	**	**	0	0	1

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR GALENA, ALASKA (64° 43' N, 156° 54' W, 120 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	-2.4	1.6	18.5	34.0	53.8	66.5	67.6	61.5	50.3	30.7	12.3	-5.1	32.4
Daily Min.	-19.3	-19.1	-4.7	13.1	34.4	48.6	51.2	47.4	36.0	17.8	-1.8	-19.7	15.3
Record High	40	37	50	64	73	87	89	82	75	56	44	35	89
Record Low	-64	-52	-49	-29	-1	35	37	30	14	-23	-46	-54	-64
Days													
Max. \leq 32° F.	30	27	26	13	1	0	0	0	1	17	28	30	173
Max. \geq 70° F.	0	0	0	0	1	11	14	3		0	0	0	29
Deg. Days 65° F.*	2384	2059	1842	1230	659	224	179	313	650	120	1837	2452	13949
Deg. Days 35° F.*	1432	1199	880	373	67	0	0	0	73	355	925	1488	6792
PRECIPITATION													
Inches													
Rainfall	0.25	0.32	0.35	0.37	0.50	1.33	2.28	2.69	1.57	0.34	0.09	0.17	10.26
Snowfall	7.3	7.8	6.5	2.8	0.9	T	0.0	0.0	1.1	6.0	8.6	7.5	48.5
Total	0.80	0.91	0.85	0.58	0.57	1.33	2.28	2.69	1.65	0.80	0.75	0.74	13.95
Days - Rainfall is:													
\geq .10 in.	3	3	4	3	2	3	7	9	5	4	3	3	49
\geq .50 in.	**	**	**	**	**	1	1	1	1	**	**	0	4

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR HAINES, ALASKA (59° 14' N, 135° 26' W, 100 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	29.1	31.1	37.6	46.7	56.8	64.3	65.5	63.9	57.0	46.4	36.2	30.1	47.1
Daily Min.	17.3	19.7	25.5	31.8	39.9	46.2	49.7	48.2	43.4	35.9	26.3	19.5	33.6
Record High	54	53	63	70	83	88	90	86	76	65	58	57	90
Record Low	-15	-16	-6	6	26	30	35	32	24	8	-11	-14	-16
Days													
Max. \leq 32° F.	16	12	6	1	0	0	0	0	0	1	8	16	60
Max. \geq 70° F.	0		0		2	7	8	6	1	0	0	0	24
Deg. Days 65° F.*	1276	1098	1027	768	494	267	211	255	435	739	1050	1259	8879
Deg. Days 35° F.*	379	248	121	20	0	0	0	0	0	14	178	307	1267
PRECIPITATION													
Inches													
Rainfall	2.68	1.68	1.38	0.23	0.03	0.0	0.0	0.0	T	0.30	1.53	2.36	10.19
Snowfall	34.8	21.9	17.9	3.0	0.4	0.0	0.0	0.0	T	4.0	19.9	30.7	132.6
Total	6.61	4.10	4.75	3.40	2.12	1.43	1.94	2.75	6.38	11.63	8.60	6.93	60.64
Days - Rainfall is:													
\geq .10 in.	11	8	10	9	5	3	5	7	12	16	14	13	113
\geq .50 in.	5	2	3	2	1	1	1	2	5	8	6	4	40

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR HOLY CROSS, ALASKA (62° 10' N, 159° 45' W, 150 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	8.5	13.9	21.7	36.8	51.7	65.5	66.5	61.9	52.2	36.2	19.3	8.7	36.9
Daily Min.	-5.6	-1.1	2.9	18.9	33.1	44.6	48.0	46.1	37.6	24.0	6.7	-5.8	20.8
Record High	48	53	56	69	78	93	89	86	79	65	53	55	93
Record Low	-60	-57	-55	-31	-6	24	31	28	15	-14	-50	-52	-60
Days													
Max. < 32° F.	27	24	22	9	1	0	0	0		10	25	28	146
Max. ≥ 70° F.	0	0	0	0	1	9	11	4		0	0	0	25
Deg. Days 65° F.*	2000	1638	1631	1080	676	300	239	335	597	1076	1533	1956	13061
Deg. Days 35° F.*	1063	876	659	234	21	0	0	0	4	195	658	1133	3873
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.11	0.03	0.77	1.16	2.06	3.90	2.76	1.09	0.11	0.0	11.99
Snowfall	18.2	13.0	11.9	5.8	0.7	T	0.0	0.0	0.2	5.2	12.5	15.7	83.2
Total	1.10	1.19	1.03	0.48	0.82	1.16	2.06	3.90	2.78	1.49	1.07	0.92	18.00
Days - Rainfall is:													
≥ .10 in.	3	3	4	3	4	5	6	11	9	3	3	2	56
≥ .50 in.	**	1	**	**	1	**	1	2	1	**	**	**	6

+ See Table 5 for length in years

* Heating degree days

** Average is >0 <0.5 days

The symbol ≥ means "equal to or greater than"

≤ means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR HOMER, ALASKA (59° 38' N, 151° 30' W, 67 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	29.1	32.8	35.4	43.0	50.4	57.4	60.8	60.1	54.8	45.0	35.2	28.9	44.4
Daily Min.	15.6	18.7	20.3	28.1	34.7	40.8	44.7	45.0	39.0	31.3	22.4	16.3	29.7
Record High	50	52	50	60	68	80	79	78	68	64	58	48	80
Record Low	-17	-18	-17	-9	6	29	34	31	20	10	-6	-13	-18
Days													
Max. \leq 32° F.	17	12	10	1		0	0	0	0	1	11	19	71
Max. \geq 70° F.	0	0	0	0	0	1	1	1	0	0	0	0	3
Deq. Days 65° F.*	1324	1149	1170	895	701	485	386	395	553	848	1070	1356	10332
Deq. Days 35° F.*	420	316	252	57	3	0	0	0	0	41	230	434	1753
PRECIPITATION													
Inches													
Rainfall	1.25	0.79	0.74	1.09	1.05	1.05	1.76	2.82	2.76	3.42	2.17	1.77	20.67
Snowfall	10.4	8.4	8.3	2.7	0.2	0.0	0.0	0.0	T	1.1	6.9	11.2	49.2
Total	2.05	1.44	1.38	1.30	1.07	1.05	1.76	2.82	2.76	3.51	2.70	2.63	24.47
Days - Rainfall is:													
\geq .10 in.	5	4	4	4	4	3	7	6	8	7	7	6	65
\geq .50 in.	1	1	**	**	**	**	1	2	1	1	2	1	10

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR ILIAMNA, ALASKA (59° 44' N, 154° 57' W, 145 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	21.0	24.8	27.5	38.7	49.5	59.2	62.1	60.6	53.4	41.3	29.3	20.4	40.7
Daily Min.	7.5	10.0	10.9	23.3	34.1	41.8	46.9	47.4	40.6	29.7	18.0	6.7	26.4
Record High	48	47	48	59	71	91	82	80	69	61	48	44	91
Record Low	-47	-46	-30	-16	4	30	34	32	23	-2	-20	-31	-47
Days													
Max. \leq 32° F.	19	14	17	6		0	0	0	0	3	15	20	94
Max. \geq 70° F.	0	0	0	0		2	5	2	0		0	0	9
Deg. Days 65° F.*	1569	1389	1428	1042	723	442	331	351	545	929	1221	1613	11583
Deg. Days 35° F.*	627	542	500	174	9	0	0	0	1	94	349	669	2965
PRECIPITATION													
Inches													
Rainfall	0.60	0.36	0.32	0.55	1.15	1.33	2.78	5.13	3.90	2.80	1.0	0.55	20.47
Snowfall	11.2	11.5	11.1	5.6	0.5	T	0.0	0.0	T	2.2	7.3	14.2	63.6
Total	1.46	1.23	1.17	0.98	1.19	1.33	2.78	5.13	3.90	2.97	1.55	1.64	25.33
Days - Rainfall is:													
\geq .10 in.	5	5	4	5	5	5	8	10	10	7	5	4	73
\geq .50 in.	1	**	1	1	**	**	1	4	3	1	1	1	14

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR KASILOF, ALASKA (60° 19' N, 151° 15' W, 80 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	22.4	28.4	33.7	44.3	54.1	61.7	64.5	63.0	56.0	43.9	31.1	22.2	43.8
Daily Min.	4.8	10.0	12.1	24.7	33.3	40.5	45.1	45.3	38.4	28.2	16.6	7.4	25.5
Record High	48	53	56	62	77	87	81	78	72	63	52	49	87
Record Low	-41	-43	-36	-14	14	26	32	27	16	-6	-28	-32	-43
Days													
Max. < 32° F.	24	16	13	1		0	0	0			3	3	60
Max. > 70° F.	0	0	0	0		3	5	3		0	0	0	11
Deq. Days 65° F.*	1587	1354	1331	922	659	416	324	346	541	892	1187	1629	11188
Deq. Days 35° F.*	678	429	405	86	1	0	0	0	0	75	376	699	2740
PRECIPITATION													
Inches													
Rainfall	0.24	0.33	0.07	0.34	0.70	1.12	2.09	2.40	2.95	1.55	0.65	0.33	12.77
Snowfall	11.2	8.4	8.0	2.7	0.2	T	0.0	0.0	0.1	1.8	10.3	10.5	53.2
Total	1.08	0.98	0.75	0.55	0.72	1.12	2.09	2.40	2.96	1.69	1.44	1.23	17.01
Days - Rainfall is:													
> .10 in.	4	3	3	2	3	5	7	7	7	6	5	4	56
> .50 in.	**	1	**	**	**	1	1	1	1	1	1	1	8

+ See Table 5 for length in years

* Heating degree days

** Average is >0 <0.5 days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR KETCHIKAN, ALASKA (55° 21' N, 131° 39' W, 15 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	39.4	41.3	44.3	50.2	57.1	62.7	65.2	66.0	61.1	52.6	45.6	40.5	52.2
Daily Min.	29.6	29.9	31.9	35.6	41.3	47.1	50.6	51.4	47.2	41.6	35.6	31.5	39.4
Record High	62	61	69	73	93	96	92	88	80	72	65	60	96
Record Low	-8	2	3	12	25	28	36	34	28	21	10	0	-8
Days													
Max. \leq 32° F.	4	2		0	0	0	0	0	0	0	1	3	10
Max. \geq 70° F.	0	0	0		2	5	8	9	3	0	0	0	27
Deg. Days 65° F.*	927	806	815	642	462	294	217	195	312	539	723	877	6809
Deg. Days 35° F.*	107	43	18	0	0	0	0	0	0	0	25	76	269
PRECIPITATION													
Inches													
Rainfall	12.10	10.72	11.91	12.08	8.61	7.23	8.13	10.65	14.08	22.17	16.69	15.03	149.40
Snowfall	10.4	6.8	5.0	0.5	0.3	0.0	0.0	0.0	0.0	0.1	1.9	7.9	32.9
Total	13.90	11.24	12.29	12.12	8.63	7.23	8.13	10.65	14.08	22.26	17.84	15.64	154.01
Days - Rainfall is:													
\geq .10 in.	17	16	15	15	14	13	11	11	15	23	20	21	191
\geq .50 in.	10	9	9	9	6	5	5	7	9	15	12	12	108

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR KODIAK, ALASKA (57° 45' N, 152° 30' W, 105 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	34.2	36.0	36.3	41.0	47.0	54.4	58.4	60.1	54.4	45.9	39.0	34.0	45.1
Daily Min.	26.2	27.3	27.1	32.3	38.7	44.8	49.1	50.2	44.9	36.7	31.1	25.5	36.2
Record High	51	56	53	59	76	86	80	84	76	60	54	50	86
Record Low	-5	-1	-3	10	20	34	40	36	31	19	9	3	-5
Days													
Max. < 32° F.	9	7	7	1		0	0	0	0		4	11	39
Max. > 70° F.	0	0	0	0			2	2		0	0	0	4
Deg. Days 65° F.*	1054	946	1012	824	678	468	354	313	452	720	891	1075	8787
Deg. Days 35° F.*	164	109	114	24	1	0	0	0	0	8	67	174	661
PRECIPITATION													
Inches													
Rainfall	4.14	4.22	2.68	3.53	5.56	3.93	3.83	3.75	5.96	6.57	5.80	3.74	53.71
Snowfall	13.2	9.9	16.1	5.7	0.1	T	0.0	0.0	T	0.8	3.2	11.8	60.8
Total	5.14	5.02	3.78	3.93	5.56	3.93	3.83	3.75	5.96	6.67	6.00	4.64	58.21
Days - Rainfall is:													
> .10 in.	13	11	9	8	11	8	9	9	10	11	11	11	121
> .50 in.	3	1	3	2	2	2	2	2	3	4	4	3	31

+ See Table 5 for length in years

* Heating degree days

** Average is >0 <0.5 days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR MATANUSKA (AES), ALASKA (61° 34' N, 149° 16' W, 150 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	21.2	27.1	33.5	45.7	58.1	66.6	67.7	64.9	56.5	43.6	29.7	21.2	44.7
Daily Min.	3.7	9.1	14.8	26.8	35.9	43.7	47.4	45.9	38.4	27.9	14.3	5.2	26.1
Record High	51	59	54	67	83	91	85	83	75	69	58	55	91
Record Low	-40	-41	-30	-16	8	27	31	27	16	-4	-22	-34	-41
Days													
Max. \leq 32° F.	23	17	12	1		0	0	0	0	4	17	23	97
Max. \geq 70° F.	0	0	0	0	2	9	11	6		0	0	0	28
Deg. Days 65° F.*	1640	1294	1252	837	552	291	226	298	519	911	1293	1606	10719
Deg. Days 35° F.*	669	488	351	69	1	0	0	0	0	92	435	735	2840
PRECIPITATION													
Inches													
Rainfall	0.20	0.0	0.0	0.19	0.74	1.3	2.24	2.9	2.39	1.29	0.41	0.12	11.78
Snowfall	8.4	8.8	6.2	2.2	0.3	0.0	0.0	0.0	0.2	3.6	7.5	10.0	47.2
Total	0.90	0.73	0.43	0.39	0.74	1.30	2.24	2.90	2.39	1.59	1.01	0.92	15.54
Days - Rainfall is:													
\geq .10 in.	3	3	2	2	3	5	7	7	7	5	2	2	48
\geq .50 in.	**	**	**	**	**	1	2	1	1	1	**	**	6

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"
 \leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR MC GRATH, ALASKA (62° 58' N, 155° 37' W, 334 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	0.8	11.5	22.1	39.8	54.8	67.5	68.6	63.0	52.2	34.2	13.4	1.6	35.8
Daily Min.	-18.7	-11.3	-5.6	15.3	33.3	45.4	48.7	45.2	35.5	19.4	-2.9	-15.6	15.7
Record High	54	55	51	67	80	89	88	83	76	61	47	44	89
Record Low	-64	-64	-51	-28	-2	30	33	28	6	-22	-49	-67	-64
Days													
Max. \leq 32° F.	30	25	24	8		0	0	0		15	27	30	159
Max. \geq 70° F.	0	0	0	0	1	10	13	5		0	0	0	29
Deg. Days 65° F.*	2294	1817	1758	1122	648	258	208	338	633	1184	1791	2232	14283
Deg. Days 35° F.*	1354	1017	840	307	23	0	0	0	11	311	897	1419	6179
PRECIPITATION													
Inches													
Rainfall	0.0	0.0	0.0	0.17	0.88	1.66	2.43	3.79	2.51	0.72	0.08	0.0	12.24
Snowfall	17.1	13.6	12.3	4.5	0.6	T	0.0	T	0.9	7.6	13.6	14.9	85.1
Total	1.26	1.14	0.93	0.47	0.88	1.66	2.43	3.79	2.61	1.32	1.08	1.01	18.58
Days - Rainfall is:													
$>$.10 in.	3	3	3	2	2	4	6	8	7	3	3	2	46
\geq .50 in.	**	**	**	**	**	1	1	2	2	**	**	**	6

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"
 \leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR NOME, ALASKA (64° 30' N, 165° 26' W, 13 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	11.5	13.3	16.3	28.4	41.2	52.4	54.6	54.2	47.8	35.4	22.6	12.9	32.6
Daily Min.	-2.7	-2.4	-0.5	13.9	28.8	39.3	44.4	43.8	35.9	24.0	10.3	-0.4	19.5
Record High	43	47	42	51	70	81	80	81	63	59	44	40	81
Record Low	-39	-47	-38	-27	-11	25	32	28	17	-3	-39	-41	-47
Days													
Max. \leq 32° F.	29	26	28	21	4		0	0		13	26	30	177
Max. \geq 70° F.	0	0	0	0		1	2		0	0	0	0	3
Deg. Days 65° F.*	1879	1666	1770	1314	930	573	481	496	693	1094	1455	1820	14171
Deg. Days 35° F.*	904	898	877	500	83	2	0	0	10	223	590	976	5063
PRECIPITATION													
Inches													
Rainfall	0.12	0.44	0.18	0.30	0.59	0.93	2.29	3.80	2.57	1.31	0.26	0.29	13.08
Snowfall	11.7	6.7	9.3	6.4	1.7	0.1	0	T	0.6	5.8	11.6	9.4	63.3
Total	1.02	0.94	0.88	0.80	0.69	0.93	2.29	3.80	2.67	1.71	1.16	0.99	17.88
Days - Rainfall is:													
\geq .10 in.	4	2	3	2	2	4	5	8	8	3	3	2	46
\geq .50 in.	**	**	0	**	**	**	1	2	1	1	0	**	5

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR TALKEETNA, ALASKA (62° 18' N, 150° 05' W, 345 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	19.4	26.2	33.4	45.4	57.5	67.5	69.0	65.4	56.3	42.3	27.8	18.6	44.1
Daily Min.	-0.9	4.8	7.2	21.3	32.5	42.7	46.7	44.3	36.1	25.2	11.1	0.1	22.6
Record High	45	50	55	69	82	91	90	88	78	68	52	47	91
Record Low	-48	-46	-43	-37	-14	25	26	27	11	-21	-41	-44	-48
Days													
Max. < 32° F.	27	20	13	2		0	0	0	0	4	20	27	113
Max. > 70° F.	0	0	0	0	2	11	15	8		0	0	0	36
Deg. Days 65° F.*	1724	1386	1386	936	626	300	220	319	570	989	1386	1717	11559
Deg. Days 35° F.*	756	599	473	108	4	0	0	0	1	135	519	825	3420
PRECIPITATION													
Inches													
Rainfall	0.06	0.12	0.0	0.15	1.34	1.77	3.19	5.33	4.36	2.25	1.59	0.12	20.28
Snowfall	22.1	21.1	20.2	7.3	0.5	T	0	T	0.7	8.4	15.0	18.9	114.2
Total	1.76	1.72	1.44	0.75	1.34	1.77	3.19	5.33	4.46	2.85	1.79	1.62	28.02
Days - Rainfall is:													
> .10 in.	5	4	4	3	3	6	9	10	10	7	5	4	70
> .50 in.	1	1	1	1	1	1	2	3	3	1	1	1	17

+ See Table 5 for length in years

* Heating degree days

** Average is >0 <0.5 days

The symbol > means "equal to or greater than"

< means "equal to or less than"

Table 2. CLIMATIC DATA FROM EXTENDED RECORDS⁺ FOR YAKUTAT, ALASKA (59° 31' N, 139° 40' W, 28 ft. MSL)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann.
TEMPERATURE													
Degrees F.													
Daily Max.	34.4	35.8	39.8	44.6	52.2	57.6	60.5	60.6	56.7	48.9	40.9	34.2	47.2
Daily Min.	20.2	21.4	23.0	29.4	37.0	43.3	47.7	47.0	41.7	34.8	26.7	22.0	32.9
Record High	49	56	55	66	80	78	84	86	77	62	59	52	86
Record Low	-22	-19	-13	3	9	30	36	30	25	-12	-10	-15	-22
Days													
Max. \leq 32° F.	12	7	4		0	0	0	0	0		3	11	37
Max. \geq 70° F.	0	0	0	0		1	1	1	1		0	0	4
Deg. Days 65° F.*	1169	1019	1042	840	632	435	338	347	474	716	936	1144	9092
Deg. Days 35° F.*	285	203	130								48	226	892
PRECIPITATION													
Inches													
Rainfall													
Snowfall	33.8	31.9	39.4	12.6	0.8	T	0.0	0.0	T	3.6	18.4	41.9	182.4
Total	10.86	8.20	8.69	7.23	7.98	5.06	8.43	10.92	16.55	19.59	16.03	12.27	131.81
Days - Rainfall is:													
\geq .10 in.	14	14	14	12	13	9	11	13	15	21	18	19	173
\geq .50 in.	7	7	5	6	6	4	6	6	9	13	10	10	89

+ See Table 5 for length in years

* Heating degree days

** Average is $>0 <0.5$ days

The symbol \geq means "equal to or greater than"

\leq means "equal to or less than"

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
ADAK, ALASKA						
Mar 1	19	19	0	0	2.07	2.07
Mar 8	23	42	0	0	1.61	3.68
Mar 15	18	60	0	0	1.50	5.18
Mar 22	24	84	0	0	1.35	6.53
Mar 29	24	108	0	0	1.32	7.85
Apr 5	31	139	0	0	1.15	9.00
Apr 12	32	171	0	0	1.10	10.10
Apr 19	45	216	3	3	0.99	11.09
Apr 26	46	262	3	6	1.06	12.15
May 3	56	318	8	14	1.22	13.37
May 10	54	372	4	18	1.40	14.77
May 17	60	432	8	26	1.31	16.08
May 24	69	501	13	39	1.29	17.37
May 31	73	574	17	56	1.17	18.54
Jun 7	80	654	24	80	1.08	19.62
Jun 14	89	743	33	113	0.77	20.39
Jun 21	97	840	41	154	0.78	21.17
Jun 28	102	942	46	200	0.60	21.77
Jul 5	109	1051	53	253	0.71	22.48
Jul 12	115	1166	59	312	0.64	23.12
Jul 19	125	1291	69	381	0.83	23.95
Jul 26	135	1426	79	460	0.76	24.71
Aug 2	139	1565	83	543	0.76	25.47
Aug 9	140	1705	84	627	0.81	26.28
Aug 16	138	1843	82	709	0.93	27.21
Aug 23	131	1974	75	784	1.09	28.30
Aug 30	126	2100	70	854	1.23	29.53
Sep 6	115	2215	59	913	1.24	30.77
Sep 13	111	2326	55	968	1.43	32.20
Sep 20	106	2432	50	1018	1.43	33.63
Sep 27	95	2527	39	1057	1.60	35.23
Oct 4	85	2612	29	1086	1.65	36.88
Oct 11	78	2690	23	1109	1.78	38.66
Oct 18	62	2752	11	1120	1.92	40.58
Oct 25	50	2802	4	1124	2.02	42.60

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum. Days	Week — 40° Days —	Cum. Days	Week — Inches —	Cum. Inches
ANCHORAGE, ALASKA						
Mar 1	3	3	0	0	0.17	0.17
Mar 8	2	5	0	0	0.14	0.31
Mar 15	2	7	0	0	0.12	0.43
Mar 22	4	11	0	0	0.11	0.54
Mar 29	10	21	0	0	0.10	0.64
Apr 5	20	41	0	0	0.12	0.76
Apr 12	29	70	1	1	0.13	0.89
Apr 19	41	111	4	5	0.12	1.01
Apr 26	56	167	10	15	0.09	1.10
May 3	74	241	22	37	0.11	1.21
May 10	91	332	36	73	0.12	1.33
May 17	106	438	50	123	0.15	1.48
May 24	116	554	60	183	0.13	1.61
May 31	133	687	77	260	0.18	1.79
Jun 7	144	831	88	348	0.23	2.02
Jun 14	159	990	103	451	0.19	2.31
Jun 21	163	1153	107	558	0.32	2.63
Jun 28	170	1323	114	672	0.30	2.93
Jul 5	176	1499	120	792	0.34	3.27
Jul 12	176	1675	120	912	0.37	3.64
Jul 19	177	1852	121	1033	0.48	4.12
Jul 26	177	2029	121	1154	0.52	4.64
Aug 2	173	2202	117	1271	0.53	5.17
Aug 9	168	2370	112	1383	0.52	5.69
Aug 16	161	2531	105	1488	0.57	6.26
Aug 23	154	2685	98	1586	0.64	6.90
Aug 30	140	2825	84	1670	0.63	7.53
Sep 6	123	2948	68	1738	0.57	8.10
Sep 13	105	3053	49	1787	0.57	8.67
Sep 20	91	3144	38	1825	0.59	9.26
Sep 27	77	3221	25	1850	0.63	9.89
Oct 4	51	3272	11	1861	0.53	10.42
Oct 11	34	3306	4	1865	0.44	10.86
Oct 18	22	3328	3	1868	0.32	11.18
Oct 25	16	3344	1	1869	0.23	11.41

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
ANIAK, ALASKA						
Mar 1	3	3	0	0		
Mar 8	1	4	0	0		
Mar 15	1	5	0	0		
Mar 22	1	6	0	0		
Mar 29	3	9	0	0		
Apr 5	7	16	0	0		
Apr 12	9	25	0	0		
Apr 19	21	46	1	1		
Apr 26	31	77	4	5		
May 3	47	124	10	15		
May 10	70	194	22	37		
May 17	91	285	36	73		
May 24	109	394	53	126		
May 31	127	521	71	197		
Jun 7	141	662	85	282		
Jun 14	152	814	96	378		
Jun 21	153	967	97	475		
Jun 28	155	1122	99	574		
Jul 5	162	1284	106	680		
Jul 12	163	1427	107	787		
Jul 19	165	1612	109	896		
Jul 26	149	1761	93	989		
Aug 2	152	1913	96	1085		
Aug 9	154	2067	98	1183		
Aug 16	140	2207	84	1267		
Aug 23	124	2331	68	1335		
Aug 30	110	2441	55	1390		
Sep 6	97	2538	43	1433		
Sep 13	87	2625	35	1468		
Sep 20	60	2685	20	1488		
Sep 27	53	2738	16	1504		
Oct 4	29	2767	6	1510		
Oct 11	10	2777	0	1510		
Oct 18	11	2788	0	1510		
Oct 25	7	2795	0	1510		

Inadequate Data

Inadequate Date

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
BETHEL, ALASKA						
Mar 1	0	0	0	0	0.31	0.31
Mar 8	1	1	0	0	0.31	0.62
Mar 15	1	2	0	0	0.25	0.87
Mar 22	1	3	0	0	0.18	1.05
Mar 29	1	4	0	0	0.10	1.15
Apr 5	3	7	0	0	0.12	1.27
Apr 12	3	10	0	0	0.16	1.43
Apr 19	10	20	0	0	0.20	1.63
Apr 26	20	40	2	2	0.18	1.81
May 3	33	73	6	8	0.17	1.98
May 10	51	124	14	22	0.22	2.20
May 17	69	193	23	45	0.26	2.46
May 24	93	286	39	84	0.29	2.75
May 31	107	393	53	137	0.27	3.02
Jun 7	121	514	65	202	0.25	3.27
Jun 14	146	660	90	292	0.29	3.56
Jun 21	138	798	82	374	0.30	3.86
Jun 28	153	951	97	471	0.34	4.20
Jul 5	162	1113	106	577	0.36	4.56
Jul 12	160	1273	104	681	0.45	5.01
Jul 19	155	1428	99	780	0.56	5.57
Jul 26	153	1581	97	877	0.66	6.23
Aug 2	145	1726	89	966	0.79	7.02
Aug 9	157	1883	101	1067	0.89	7.91
Aug 16	142	2025	86	1153	1.07	8.98
Aug 23	127	2152	71	1224	0.94	9.92
Aug 30	115	2267	59	1283	0.93	10.85
Sep 6	108	2375	52	1335	0.66	11.51
Sep 13	92	2467	38	1373	0.61	12.12
Sep 20	66	2533	19	1392	0.63	12.75
Sep 27	57	2590	16	1408	0.52	13.27
Oct 4	28	2618	4	1412	0.42	13.69
Oct 11	9	2627	0	1412	0.24	13.93
Oct 18	10	2637	0	1412	0.24	14.17
Oct 25	4	2641	0	1412	0.21	14.38

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
BIG DELTA, ALASKA						
Mar 1	0	0	0	0	0.08	0.08
Mar 8	0	0	0	0	0.07	0.15
Mar 15	1	1	0	0	0.06	0.21
Mar 22	1	2	0	0	0.05	0.26
Mar 29	4	6	0	0	0.06	0.32
Apr 5	8	14	0	0	0.06	0.38
Apr 12	13	27	1	1	0.05	0.43
Apr 19	29	56	3	4	0.03	0.46
Apr 26	46	102	12	16	0.03	0.49
May 3	66	168	23	39	0.07	0.56
May 10	95	263	42	81	0.16	0.72
May 17	123	386	68	149	0.27	0.99
May 24	136	522	80	229	0.34	1.33
May 31	156	678	100	329	0.37	1.70
Jun 7	168	846	112	441	0.41	2.11
Jun 14	181	1027	125	566	0.63	2.74
Jun 21	172	1199	116	682	0.78	3.52
Jun 28	180	1379	124	806	0.74	4.26
Jul 5	197	1576	141	947	0.60	4.86
Jul 12	199	1775	143	1090	0.49	5.35
Jul 19	187	1962	131	1221	0.59	5.94
Jul 26	180	2142	124	1345	0.56	6.50
Aug 2	171	2313	115	1460	0.56	7.06
Aug 9	172	2485	116	1576	0.44	7.50
Aug 16	155	2640	99	1675	0.47	7.97
Aug 23	140	2780	84	1759	0.46	8.43
Aug 30	121	2901	67	1826	0.45	8.88
Sep 6	105	3006	51	1877	0.37	9.25
Sep 13	75	3081	27	1904	0.29	9.54
Sep 20	54	3135	18	1922	0.24	9.78
Sep 27	37	3172	9	1931	0.18	9.96
Oct 4	20	3192	4	1935	0.13	10.09
Oct 11	9	3201	1	1936	0.12	10.21
Oct 18	4	3205	0	1936	0.13	10.34
Oct 25	2	3207	0	1936	0.15	10.49

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week	Cum.	Week	Cum.	Week	Cum.
	— 32° Days —		— 40° Days —		— Inches —	
EAGLE, ALASKA						
Mar 1	0	0	0	0	0.06	0.06
Mar 8	0	0	0	0	0.06	0.12
Mar 15	0	0	0	0	0.06	0.18
Mar 22	0	0	0	0	0.06	0.24
Mar 29	1	1	0	0	0.04	0.28
Apr 5	5	6	0	0	0.07	0.35
Apr 12	7	13	0	0	0.07	0.42
Apr 19	21	34	2	2	0.10	0.52
Apr 26	37	71	7	9	0.09	0.61
May 3	54	125	14	23	0.12	0.73
May 10	79	204	30	53	0.18	0.91
May 17	109	313	54	107	0.23	1.14
May 24	126	439	70	177	0.24	1.38
May 31	147	586	92	269	0.30	1.68
Jun 7	165	751	109	378	0.34	2.02
Jun 14	169	920	113	491	0.41	2.43
Jun 21	183	1103	127	618	0.41	2.84
Jun 28	188	1291	132	750	0.42	3.26
Jul 5	194	1485	138	888	0.44	3.70
Jul 12	197	1682	141	1029	0.48	4.18
Jul 19	189	1871	133	1162	0.44	4.62
Jul 26	191	2062	135	1297	0.41	5.03
Aug 2	182	2244	126	1423	0.40	5.43
Aug 9	169	2413	113	1536	0.45	5.88
Aug 16	147	2560	91	1627	0.47	6.35
Aug 23	133	2693	77	1704	0.44	6.79
Aug 30	103	2796	49	1753	0.37	7.16
Sep 6	100	2896	47	1800	0.37	7.53
Sep 13	71	2967	24	1824	0.31	7.84
Sep 20	49	3016	13	1837	0.30	8.14
Sep 27	34	3050	8	1845	0.21	8.35
Oct 4	20	3070	4	1849	0.18	8.53
Oct 11	12	3082	3	1852	0.17	8.70
Oct 18	5	3087	0	1852	0.16	8.86
Oct 25	2	3089	0	1852	0.14	9.00

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
FAIRBANKS (UES), ALASKA						
Mar 1	0	0	0	0	0.08	0.08
Mar 8	0	0	0	0	0.10	0.18
Mar 15	0	0	0	0	0.12	0.30
Mar 22	1	1	0	0	0.10	0.40
Mar 29	4	5	0	0	0.10	0.50
Apr 5	9	14	0	0	0.06	0.56
Apr 12	14	28	1	1	0.07	0.63
Apr 19	33	61	5	6	0.06	0.69
Apr 26	50	111	14	20	0.08	0.77
May 3	69	180	24	44	0.10	0.87
May 10	92	272	41	85	0.14	1.01
May 17	120	392	65	150	0.20	1.21
May 24	139	531	84	234	0.20	1.41
May 31	154	685	98	332	0.26	1.67
Jun 7	177	862	121	453	0.30	1.97
Jun 14	188	1050	132	585	0.41	2.38
Jun 21	185	1235	129	714	0.46	2.84
Jun 28	191	1426	135	849	0.46	3.30
Jul 5	194	1620	138	987	0.44	3.74
Jul 12	197	1817	141	1128	0.49	4.23
Jul 19	192	2009	136	1264	0.56	4.79
Jul 26	185	2194	129	1393	0.64	5.43
Aug 2	170	2364	114	1507	0.56	5.99
Aug 9	172	2536	116	1623	0.54	6.53
Aug 16	155	2691	99	1722	0.55	7.08
Aug 23	142	2833	86	1808	0.65	7.73
Aug 30	122	2955	66	1874	0.49	8.22
Sep 6	106	3061	52	1926	0.38	8.60
Sep 13	80	3141	30	1956	0.28	8.88
Sep 20	64	3205	23	1979	0.30	9.18
Sep 27	48	3253	12	1991	0.26	9.44
Oct 4	24	3277	4	1995	0.24	9.68
Oct 11	9	3286	0	1995	0.20	9.88
Oct 18	6	3292	1	1996	0.20	10.08
Oct 25	2	3294	0	1996	0.20	10.28

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week 32° Days	Cum.	Week 40° Days	Cum.	Week Inches	Cum.
FORT YUKON, ALASKA						
Mar 1	0	0	0	0	0.09	0.09
Mar 8	0	0	0	0	0.06	0.15
Mar 15	0	0	0	0	0.06	0.21
Mar 22	0	0	0	0	0.06	0.27
Mar 29	0	0	0	0	0.05	0.32
Apr 5	1	1	0	0	0.05	0.37
Apr 12	2	3	0	0	0.02	0.39
Apr 19	14	17	2	2	0.03	0.42
Apr 26	23	40	4	6	0.05	0.47
May 3	39	79	9	15	0.06	0.53
May 10	65	144	21	36	0.05	0.58
May 17	107	251	53	89	0.05	0.63
May 24	131	382	75	164	0.11	0.74
May 31	156	538	100	264	0.15	0.89
Jun 7	177	715	121	385	0.16	1.05
Jun 14	194	909	138	523	0.11	1.16
Jun 21	194	1103	138	661	0.20	1.36
Jun 28	202	1305	146	807	0.10	1.46
Jul 5	206	1511	150	957	0.18	1.64
Jul 12	213	1724	157	1114	0.12	1.76
Jul 19	204	1928	148	1262	0.26	2.02
Jul 26	190	2118	134	1396	0.24	2.26
Aug 2	178	2296	122	1518	0.27	2.53
Aug 9	176	2472	120	1638	0.27	2.80
Aug 16	158	2630	102	1740	0.25	3.05
Aug 23	135	2765	79	1819	0.31	3.36
Aug 30	114	2879	59	1878	0.14	3.50
Sep 6	96	2975	44	1922	0.18	3.68
Sep 13	62	3037	18	1940	0.27	3.95
Sep 20	34	3071	6	1946	0.14	4.09
Sep 27	19	3090	1	1947	0.15	4.24
Oct 4	6	3096	0	1947	0.14	4.38
Oct 11	0	3096	0	1947	0.14	4.52
Oct 18	1	3097	0	1947	0.12	4.64
Oct 25	0	3097	0	1947	0.14	4.78

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
HOLY CROSS, ALASKA						
Mar 1	1	1	0	0	0.30	0.30
Mar 8	0	1	0	0	0.25	0.55
Mar 15	0	1	0	0	0.18	0.73
Mar 22	0	1	0	0	0.14	0.87
Mar 29	4	5	0	0	0.11	0.98
Apr 5	7	12	0	0	0.12	1.10
Apr 12	10	22	0	0	0.10	1.20
Apr 19	22	44	2	2	0.10	1.30
Apr 26	35	79	7	9	0.12	1.42
May 3	53	132	15	24	0.16	1.58
May 10	71	203	24	48	0.18	1.76
May 17	92	295	39	87	0.19	1.95
May 24	111	406	57	144	0.20	2.15
May 31	134	540	78	222	0.21	2.36
Jun 7	157	697	101	323	0.25	2.61
Jun 14	167	864	111	434	0.29	2.90
Jun 21	174	1038	118	552	0.35	3.25
Jun 28	175	1213	119	671	0.35	3.60
Jul 5	179	1392	123	794	0.45	4.05
Jul 12	175	1567	119	913	0.44	4.49
Jul 19	181	1748	125	1038	0.54	5.03
Jul 26	166	1914	110	1148	0.62	5.65
Aug 2	161	2075	105	1253	0.74	6.39
Aug 9	159	2234	103	1356	0.86	7.25
Aug 16	152	2386	96	1452	0.94	8.19
Aug 23	140	2526	84	1536	0.97	9.16
Aug 30	122	2648	66	1602	0.92	10.08
Sep 6	105	2753	49	1651	0.72	10.80
Sep 13	90	2843	36	1687	0.62	11.42
Sep 20	69	2912	24	1711	0.57	11.99
Sep 27	58	2970	16	1727	0.48	12.47
Oct 4	31	3001	5	1732	0.41	12.88
Oct 11	9	3010	0	1732	0.28	13.16
Oct 18	7	3017	0	1732	0.32	13.48
Oct 25	6	3023	0	1732	0.36	13.84

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week	Cum.	Week	Cum.	Week	Cum.
	— 32° Days —		— 40° Days —		— Inches —	
HOMER, ALASKA						
Mar 1	7	7	0	0	0.39	0.39
Mar 8	5	12	0	0	0.33	0.72
Mar 15	6	18	0	0	0.25	0.97
Mar 22	8	26	0	0	0.27	1.24
Mar 29	13	39	0	0	0.33	1.57
Apr 5	19	58	0	0	0.37	1.94
Apr 12	28	86	1	1	0.38	2.32
Apr 19	36	122	3	4	0.30	2.62
Apr 26	46	168	6	10	0.25	2.87
May 3	55	223	8	18	0.23	3.10
May 10	71	294	18	36	0.24	3.34
May 17	78	372	23	59	0.19	3.53
May 24	88	460	32	91	0.17	3.70
May 31	97	557	41	132	0.17	3.87
Jun 7	110	667	54	186	0.30	4.17
Jun 14	122	789	66	252	0.23	4.40
Jun 21	128	917	72	324	0.28	4.68
Jun 28	134	1051	78	402	0.29	4.97
Jul 5	138	1189	82	484	0.36	5.33
Jul 12	144	1333	88	572	0.37	5.70
Jul 19	148	1481	92	664	0.46	6.16
Jul 26	147	1628	91	755	0.51	6.67
Aug 2	147	1775	91	846	0.58	7.25
Aug 9	146	1921	90	936	0.60	7.85
Aug 16	140	2061	84	1020	0.61	8.46
Aug 23	135	2196	79	1099	0.67	9.13
Aug 30	120	2316	64	1163	0.73	9.86
Sep 6	111	2427	55	1218	0.67	10.53
Sep 13	99	2526	43	1261	0.69	11.22
Sep 20	91	2617	38	1299	0.64	11.86
Sep 27	81	2698	29	1328	0.69	12.55
Oct 4	57	2755	14	1342	0.67	13.22
Oct 11	41	2796	6	1348	0.77	13.99
Oct 18	29	2825	3	1351	0.80	14.79
Oct 25	30	2855	4	1355	0.76	15.55

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
ILIAMNA, ALASKA						
Mar 1	4	4	0	0	0.22	0.22
Mar 8	2	6	0	0	0.30	0.52
Mar 15	2	8	0	0	0.28	0.80
Mar 22	1	9	0	0	0.26	1.06
Mar 29	5	14	0	0	0.20	1.26
Apr 5	8	22	0	0	0.24	1.50
Apr 12	12	34	0	0	0.22	1.72
Apr 19	23	57	0	0	0.22	1.94
Apr 26	35	92	3	3	0.18	2.12
May 3	47	139	6	9	0.23	2.35
May 10	61	200	12	21	0.30	2.65
May 17	76	276	22	43	0.31	2.96
May 24	94	370	39	82	0.27	3.23
May 31	105	475	49	131	0.29	3.52
Jun 7	118	593	62	193	0.32	3.84
Jun 14	137	730	81	274	0.37	4.21
Jun 21	137	867	81	355	0.40	4.61
Jun 28	146	1013	90	445	0.42	5.03
Jul 5	156	1169	100	545	0.48	5.51
Jul 12	155	1324	99	644	0.54	6.05
Jul 19	159	1483	103	747	0.74	6.79
Jul 26	157	1640	101	848	0.88	7.67
Aug 2	155	1795	99	947	1.00	8.67
Aug 9	160	1955	104	1051	1.08	9.75
Aug 16	152	2107	96	1147	1.26	11.01
Aug 23	141	2248	85	1232	1.25	12.26
Aug 30	128	2376	72	1304	1.25	13.51
Sep 6	118	2494	62	1366	1.03	14.54
Sep 13	102	2596	47	1413	0.97	15.51
Sep 20	87	2683	35	1448	0.94	16.45
Sep 27	74	2757	25	1473	0.87	17.32
Oct 4	49	2806	11	1484	0.79	18.11
Oct 11	25	2831	3	1487	0.65	18.76
Oct 18	24	2855	3	1490	0.64	19.40
Oct 25	21	2876	2	1492	0.57	19.97

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week	Cum.	Week	Cum.	Week	Cum.
	— 32° Days —		— 40° Days —		— Inches —	
KASILOF, ALASKA						
Mar 1	3	3	0	0	0.18	0.18
Mar 8	2	5	0	0	0.17	0.35
Mar 15	3	8	0	0	0.15	0.50
Mar 22	5	13	0	0	0.14	0.64
Mar 29	10	23	0	0	0.13	0.77
Apr 5	17	40	1	1	0.13	0.90
Apr 12	24	64	0	1	0.15	1.05
Apr 19	34	98	3	4	0.14	1.19
Apr 26	51	149	8	12	0.14	1.33
May 3	62	211	13	25	0.14	1.47
May 10	78	289	24	49	0.16	1.63
May 17	90	379	34	83	0.15	1.78
May 24	100	479	44	127	0.15	1.93
May 31	111	590	55	182	0.16	2.09
Jun 7	128	718	72	254	0.17	2.26
Jun 14	141	859	85	339	0.22	2.48
Jun 21	143	1002	87	426	0.29	2.77
Jun 28	148	1150	92	518	0.32	3.09
Jul 5	155	1305	99	617	0.40	3.49
Jul 12	156	1461	100	717	0.41	3.90
Jul 19	161	1622	105	822	0.63	4.53
Jul 26	161	1783	105	927	0.50	5.03
Aug 2	164	1947	108	1035	0.54	5.57
Aug 9	159	2106	103	1138	0.48	6.05
Aug 16	148	2254	92	1230	0.59	6.64
Aug 23	143	2397	87	1317	0.64	7.28
Aug 30	128	2525	72	1389	0.68	7.96
Sep 6	118	2643	62	1451	0.61	8.57
Sep 13	102	2745	47	1498	0.68	9.25
Sep 20	88	2833	37	1535	0.67	9.92
Sep 27	80	2913	29	1564	0.65	10.57
Oct 4	56	2969	15	1579	0.46	11.03
Oct 11	39	3008	7	1586	0.37	11.40
Oct 18	24	3032	4	1590	0.34	11.74
Oct 25	19	3051	2	1592	0.32	12.06

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
KETCHIKAN, ALASKA						
Mar 1	40	40	4	4	2.89	2.89
Mar 8	40	80	4	8	2.86	5.75
Mar 15	51	131	6	14	2.78	8.53
Mar 22	50	181	7	21	2.96	11.49
Mar 29	59	240	12	33	3.01	14.50
Apr 5	69	309	17	50	3.19	17.69
Apr 12	77	386	22	72	2.77	20.46
Apr 19	93	479	38	110	2.35	22.81
Apr 26	97	576	42	152	2.02	24.83
May 3	107	683	52	204	2.42	27.25
May 10	119	802	63	267	2.03	29.28
May 17	134	936	78	345	1.94	31.22
May 24	139	1075	83	428	1.66	32.88
May 31	147	1222	91	519	1.70	34.58
Jun 7	156	1378	100	619	1.73	36.31
Jun 14	161	1539	105	724	1.63	37.97
Jun 21	164	1703	108	832	1.71	39.65
Jun 28	167	1870	111	943	1.66	41.31
Jul 5	178	2048	122	1065	1.86	43.17
Jul 12	185	2233	129	1194	1.97	45.14
Jul 19	183	2416	127	1321	1.89	47.03
Jul 26	191	2607	135	1456	2.03	49.06
Aug 2	189	2796	133	1589	1.98	51.04
Aug 9	190	2986	134	1723	2.15	53.19
Aug 16	188	3174	132	1855	2.33	55.52
Aug 23	185	3359	129	1984	2.50	58.02
Aug 30	175	3534	119	2103	2.75	60.77
Sep 6	167	3701	111	2214	2.89	63.66
Sep 13	154	3855	98	2312	3.29	66.95
Sep 20	146	4001	90	2402	3.84	70.79
Sep 27	136	4137	80	2482	4.20	74.99
Oct 4	120	4257	64	2546	4.93	79.92
Oct 11	111	4368	56	2602	5.18	85.10
Oct 18	96	4464	42	2644	5.43	90.53
Oct 25	87	4551	35	2679	5.17	95.70

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
KODIAK, ALASKA						
Mar 1	19	19	0	0	1.01	1.01
Mar 8	15	34	0	0	0.89	1.90
Mar 15	15	49	0	0	0.81	2.71
Mar 22	20	69	0	0	0.81	3.52
Mar 29	27	96	1	1	0.92	4.44
Apr 5	32	128	3	4	0.98	5.42
Apr 12	38	166	2	6	1.10	6.52
Apr 19	49	215	6	12	1.08	7.60
Apr 26	53	268	8	20	1.13	8.73
May 3	64	332	13	33	1.18	9.91
May 10	77	409	22	55	1.37	11.28
May 17	83	492	28	83	1.48	12.76
May 24	89	581	33	116	1.47	14.23
May 31	100	681	44	160	1.29	15.52
Jun 7	114	795	58	218	1.18	16.70
Jun 14	128	923	72	290	1.04	17.74
Jun 21	129	1052	73	363	0.90	18.64
Jun 28	141	1193	85	448	0.89	19.53
Jul 5	143	1336	87	535	0.80	20.33
Jul 12	146	1482	90	625	0.97	21.30
Jul 19	154	1636	98	723	0.80	22.10
Jul 26	166	1802	110	833	0.81	22.91
Aug 2	166	1968	110	943	0.71	23.62
Aug 9	162	2130	106	1049	0.81	24.43
Aug 16	160	2290	104	1153	0.86	25.29
Aug 23	154	2444	98	1251	0.94	26.23
Aug 30	142	2586	86	1337	1.11	27.34
Sep 6	135	2721	79	1416	1.16	28.50
Sep 13	126	2847	70	1486	1.42	29.92
Sep 20	112	2959	56	1542	1.48	31.40
Sep 27	104	3063	49	1591	1.62	33.02
Oct 4	83	3146	31	1622	1.53	34.55
Oct 11	68	3214	19	1641	1.25	35.80
Oct 18	54	3268	12	1653	1.61	37.41
Oct 25	52	3320	11	1664	1.55	38.96

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week	Cum.	Week	Cum.	Week	Cum.
	— 32° Days —		— 40° Days —		— Inches —	
MATANUSKA (AES), ALASKA						
Mar 1	6	6	0	0	0.10	0.10
Mar 8	5	11	0	0	0.11	0.21
Mar 15	6	17	0	0	0.11	0.32
Mar 22	8	25	0	0	0.11	0.43
Mar 29	14	39	1	1	0.11	0.54
Apr 5	26	65	2	3	0.12	0.66
Apr 12	33	98	3	6	0.11	0.77
Apr 19	47	145	8	14	0.11	0.88
Apr 26	61	206	14	28	0.11	0.99
May 3	79	285	27	55	0.13	1.12
May 10	100	385	44	99	0.15	1.27
May 17	112	497	56	155	0.17	1.44
May 24	124	621	68	223	0.18	1.62
May 31	143	764	87	310	0.23	1.85
Jun 7	156	920	100	410	0.27	2.12
Jun 14	167	1087	111	521	0.36	2.48
Jun 21	167	1254	111	632	0.39	2.87
Jun 28	168	1422	112	744	0.40	3.27
Jul 5	180	1602	124	868	0.46	3.73
Jul 12	175	1777	119	987	0.48	4.21
Jul 19	175	1952	119	1106	0.56	4.77
Jul 26	177	2129	121	1227	0.56	5.33
Aug 2	172	2301	116	1343	0.55	5.88
Aug 9	170	2471	114	1457	0.59	6.47
Aug 16	158	2629	102	1559	0.64	7.11
Aug 23	150	2779	94	1653	0.73	7.84
Aug 30	135	2914	79	1732	0.62	8.46
Sep 6	121	3035	65	1797	0.71	9.17
Sep 13	102	3137	47	1844	0.62	9.79
Sep 20	91	3228	38	1882	0.58	10.37
Sep 27	76	3304	27	1909	0.53	10.90
Oct 4	52	3356	14	1923	0.46	11.36
Oct 11	40	3396	9	1932	0.39	11.75
Oct 18	26	3422	5	1937	0.31	12.06
Oct 25	19	3441	2	1939	0.23	12.29

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
MC GRATH, ALASKA						
Mar 1	0	0	0	0	0.23	0.23
Mar 8	0	0	0	0	0.22	0.45
Mar 15	0	0	0	0	0.18	0.63
Mar 22	0	0	0	0	0.14	0.77
Mar 29	1	1	0	0	0.12	0.89
Apr 5	3	4	0	0	0.12	1.01
Apr 12	6	10	0	0	0.13	1.14
Apr 19	15	25	0	0	0.12	1.26
Apr 26	33	58	5	5	0.10	1.36
May 3	51	109	14	19	0.11	1.47
May 10	78	187	28	47	0.19	1.66
May 17	103	290	48	95	0.25	1.91
May 24	130	420	74	169	0.28	2.19
May 31	143	563	87	256	0.33	2.52
Jun 7	159	722	103	359	0.38	2.90
Jun 14	174	896	118	477	0.44	3.34
Jun 21	167	1063	111	588	0.46	3.80
Jun 28	176	1239	120	708	0.47	4.27
Jul 5	192	1431	136	844	0.54	4.81
Jul 12	187	1618	131	975	0.53	5.34
Jul 19	183	1801	127	1102	0.61	5.95
Jul 26	167	1968	111	1213	0.65	6.60
Aug 2	158	2126	102	1315	0.70	7.30
Aug 9	162	2288	106	1421	0.77	8.07
Aug 16	150	2438	94	1515	0.81	8.88
Aug 23	133	2571	77	1592	0.81	9.69
Aug 30	118	2689	63	1655	0.81	10.50
Sep 6	99	2788	45	1700	0.67	11.17
Sep 13	78	2866	28	1728	0.65	11.82
Sep 20	56	2922	17	1745	0.56	12.38
Sep 27	42	2964	9	1754	0.47	12.85
Oct 4	18	2982	2	1756	0.38	13.23
Oct 11	4	2986	0	1756	0.25	13.48
Oct 18	3	2989	0	1756	0.33	13.81
Oct 25	2	2991	0	1756	0.48	14.29

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week — 32° Days —	Cum.	Week — 40° Days —	Cum.	Week — Inches —	Cum.
NOME, ALASKA						
Mar 1	0	0	0	0	0.21	0.21
Mar 8	0	0	0	0	0.20	0.41
Mar 15	0	0	0	0	0.16	0.57
Mar 22	0	0	0	0	0.14	0.71
Mar 29	0	0	0	0	0.14	0.85
Apr 5	0	0	0	0	0.15	1.00
Apr 12	0	0	0	0	0.19	1.19
Apr 19	2	2	0	0	0.16	1.35
Apr 26	8	10	0	0	0.18	1.53
May 3	19	29	1	1	0.14	1.67
May 10	28	57	6	7	0.16	1.83
May 17	41	98	9	16	0.14	1.97
May 24	68	166	26	42	0.15	2.12
May 31	78	244	34	76	0.17	2.29
Jun 7	101	345	49	125	0.18	2.47
Jun 14	93	438	40	165	0.31	2.78
Jun 21	96	534	41	206	0.31	3.09
Jun 28	107	641	51	257	0.38	3.47
Jul 5	118	759	62	319	0.32	3.79
Jul 12	123	882	67	386	0.48	4.27
Jul 19	129	1011	73	459	0.61	4.88
Jul 26	129	1140	73	532	0.81	5.69
Aug 2	123	1263	67	599	0.94	6.63
Aug 9	132	1395	76	675	1.03	7.66
Aug 16	127	1522	71	746	0.97	8.63
Aug 23	109	1631	53	799	0.80	9.43
Aug 30	96	1727	42	841	0.67	10.10
Sep 6	87	1814	35	876	0.55	10.65
Sep 13	72	1886	23	899	0.53	11.18
Sep 20	47	1933	9	908	0.55	11.73
Sep 27	38	1971	7	915	0.55	12.28
Oct 4	18	1989	2	917	0.45	12.73
Oct 11	5	1994	0	917	0.33	13.06
Oct 18	8	2002	0	917	0.25	13.31
Oct 25	3	2005	0	917	0.14	13.45

Table 3. WEEKLY TABULATION OF DEGREE DAYS AND PRECIPITATION, MARCH THROUGH OCTOBER

Week of	Growing Degree Days				Precipitation	
	Week	Cum.	Week	Cum.	Week	Cum.
	— 32° Days —		— 40° Days —		— Inches —	
TALKEETNA, ALASKA						
Mar 1	1	1	0	0	0.43	0.43
Mar 8	1	2	0	0	0.36	0.79
Mar 15	3	5	0	0	0.28	1.07
Mar 22	5	10	0	0	0.28	1.35
Mar 29	11	21	0	0	0.21	1.56
Apr 5	15	36	1	1	0.22	1.78
Apr 12	22	58	1	2	0.16	1.94
Apr 19	34	92	2	4	0.16	2.10
Apr 26	46	138	6	10	0.18	2.28
May 3	61	199	15	25	0.23	2.51
May 10	81	280	26	51	0.27	2.78
May 17	98	378	43	94	0.31	3.09
May 24	116	494	60	154	0.29	3.38
May 31	135	629	79	233	0.38	3.76
Jun 7	150	779	94	327	0.37	4.13
Jun 14	168	947	112	439	0.43	4.56
Jun 21	170	1117	114	553	0.45	5.01
Jun 28	174	1291	118	671	0.49	5.50
Jul 5	182	1473	126	797	0.56	6.06
Jul 12	181	1654	125	922	0.63	6.69
Jul 19	180	1834	124	1046	0.91	7.60
Jul 26	175	2009	119	1165	1.08	8.68
Aug 2	170	2179	114	1279	1.11	9.79
Aug 9	167	2346	111	1390	1.06	10.85
Aug 16	154	2500	98	1488	1.17	12.02
Aug 23	142	2642	86	1574	1.25	13.27
Aug 30	129	2771	73	1647	1.27	14.54
Sep 6	112	2883	57	1704	1.12	15.66
Sep 13	92	2975	37	1741	1.09	16.75
Sep 20	77	3052	28	1769	1.03	17.78
Sep 27	63	3115	16	1785	0.97	18.75
Oct 4	40	3155	6	1791	0.83	19.58
Oct 11	26	3181	2	1793	0.63	20.21
Oct 18	14	3195	1	1794	0.59	20.80
Oct 25	13	3208	4	1798	0.69	21.49

Table 4. AVERAGE NUMBER OF DAYS TEMPERATURE REMAINS ABOVE INDICATED THRESHOLDS

Location	20°	24°	28°	32°
Allakaket	134	126	93	59
Anchorage	191	175	152	125
Aniak	158	148	121	81
Bethel	167	154	132	105
Big Delta	160	150	136	116
Eagle	144	126	103	81
Fairbanks (UES)	156	139	117	89
Fort Yukon	138	126	113	90
Galena	156	146	133	119
Haines	227	216	181	148
Holy Cross	161	149	132	105
Homer	202	176	145	109
Illiamna	178	169	148	123
Kasilof	180	160	131	95
Ketchikan	-	212	237	190
Kodiak	244	227	185	160
Matanuska (AES)	182	164	138	108
McGrath	156	147	129	106
Nome	155	141	112	77
Talkeetna	166	144	118	87
Yakutat	224	202	167	124

Table 5. AVERAGE DATE OF LAST OCCURRENCE OF MINIMUM TEMPERATURE

Location	Record Period* Years	20°		24°		28°		32°		Std. Devn. (S')
		Mean Devn. Days	Mean Devn. Days	Mean Devn. Days	Mean Devn. Days	Mean Devn. Days	Mean Devn. Days			
Allakaket	30#	5/ 8	7.0	5/13	6.8	5/22	10.1	6/ 6	10.1	12.3
Anchorage	35	4/10	10.3	4/18	9.1	4/29	7.4	5/15	7.8	7.9
Aniak	25#	4/29	8.7	5/ 2	6.9	5/14	7.3	6/ 9	12.6	10.7
Bethel	35	4/29	10.9	5/ 5	7.8	5/17	8.5	5/27	8.1	11.2
Big Delta	24#	4/25	7.0	4/30	5.9	5/ 8	7.9	5/20	7.6	9.2
Eagle	22#	5/ 4	6.7	5/13	5.4	5/22	7.6	6/ 2	7.3	8.8
Fairbanks (UES)	34#	4/28	7.5	5/ 7	8.6	5/17	7.7	5/28	9.5	9.0
Ft. Yukon	29#	5/ 7	5.9	5/12	4.3	5/17	5.0	5/26	6.6	7.2
Galena	21#	5/ 1	7.5	5/ 4	5.6	5/ 9	5.5	5/16	5.3	7.4
Haines	26#@	3/26	10.7	4/ 2	10.6	4/16	13.3	5/ 9	14.8	14.4
Holy Cross	34#	5/ 2	10.6	5/ 7	11.3	5/15	8.1	5/28	7.9	11.9
Homer	29#	4/ 9	10.8	4/20	10.8	5/ 5	9.9	5/30	8.6	12.2
Iliamna	24#	4/24	8.9	4/26	8.0	5/ 8	8.1	5/22	6.7	9.1
Kasilof	26#%	4/18	8.6	4/29	10.4	5/14	8.5	6/ 1	7.3	12.8
Ketchikan	28#			3/ 5	17.4	3/27	10.4	4/22	8.8	15.9
Kodiak	33#	3/23	9.8	4/ 2	12.9	4/23	10.4	5/ 4	10.0	14.1
Matanuska (AES)	32#	4/13	9.0	4/23	8.0	5/ 4	11.0	5/27	9.0	12.0
McGrath	24#	4/29	7.1	5/ 2	7.1	5/12	7.5	5/22	7.4	7.5
Nome	35	5/ 6	9.7	5/11	9.2	5/24	10.2	6/10	9.7	11.7
Talkeetna	34#	4/25	6.6	5/ 6	7.7	5/20	9.0	6/ 2	8.2	10.7
Yakutat	30#	3/31	12.5	4/14	13.6	4/28	11.9	5/23	10.0	15.0

* Number of years ending with 1965 unless otherwise indicated

Longer for some threshold values

@ Ending with 1957

% 1935, 37, 49, 51 and 1965 missing

S' Value given is the average of the standard deviations for the four threshold temperatures of 20°, 24°, 28° and 32° given in days

Table 6. AVERAGE DATE OF FIRST OCCURRENCE OF MINIMUM TEMPERATURE

Location	Record Period* Years	32°	Mean Devn. Days	28°	Mean Devn. Days	24°	Mean Devn. Days	20°	Mean Devn. Days	Std. Devn. (S')
Allakaket	30#	8/ 4	11.0	8/23	8.8	9/11	11.3	9/19	14.3	14.6
Anchorage	35	9/17	8.7	9/28	9.5	10/10	9.1	10/18	10.6	11.8
Aniak	25#	8/23	15.3	9/12	10.6	9/27	10.6	10/ 4	8.6	11.8
Bethel	35	9/ 9	12.4	9/26	8.5	10/ 6	6.5	10/13	7.4	11.7
Big Delta	24#	9/13	10.0	9/21	8.9	9/27	6.8	10/ 2	9.5	10.6
Eagle	22#	8/22	11.8	9/ 2	9.0	9/16	8.7	9/25	7.3	11.5
Fairbanks (UES)	34#	8/25	12.9	9/11	9.1	9/23	9.2	10/ 1	9.6	12.6
Ft. Yukon	29#	8/24	11.1	9/ 7	9.3	9/15	8.3	9/22	9.5	14.1
Galena	21#	9/12	9.7	9/19	8.3	9/27	9.3	10/ 4	8.0	11.2
Haines	26#@	10/ 4	14.2	10/14	16.0	11/ 4	12.1	11/ 8	13.0	16.2
Holy Cross	34#	9/10	9.7	9/24	7.9	10/ 3	8.1	10/10	8.1	10.5
Homer	29#	9/16	8.5	9/27	10.7	10/13	9.5	10/28	11.8	12.7
Iliamna	24#	9/22	10.1	10/ 3	7.0	10/12	6.8	10/19	7.7	9.9
Kasilof	26#%	9/ 4	10.1	9/22	9.1	10/ 6	9.1	10/15	10.1	5.8
Ketchikan	28#	10/29	10.9	11/19	17.2	12/ 2	12.6			15.4
Kodiak	33#	10/11	8.7	10/25	9.4	11/15	15.0	11/22	22.8	15.6
Matanuska (AES)	32#	9/ 9	8.0	9/19	11.0	10/ 4	9.0	10/12	10.0	12.0
McGrath	24#	9/ 5	6.8	9/18	8.0	9/26	8.5	10/ 2	8.4	10.5
Nome	35	8/26	16.9	9/13	9.1	9/29	8.6	10/ 8	6.8	16.9
Talkeetna	34#	8/28	13.6	9/15	10.9	9/27	10.1	10/ 8	11.0	15.4
Yakutat	30#	9/24	13.6	10/12	14.7	11/ 2	15.5	11/10	17.2	18.6

* Number of years ending with 1965 unless otherwise indicated

Longer for some threshold values

@ Ending with 1957

% 1935, 37, 49, 51 and 1965 missing

S' Value given is the average of the standard deviations for the four threshold temperatures of 20°, 24°, 28° and 32° given in days

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

Deg. F.	90%	80%	60%	40%	20%	10%
ALLAKAKET, ALASKA - SPRING						
32°	May 21	May 26	Jun 3	Jun 9	Jun 17	Jun 23
28°	May 6	May 11	May 19	May 25	Jun 2	Jun 8
24°	Apr 27	May 2	May 10	May 16	May 24	May 30
20°	Apr 22	Apr 27	May 5	May 11	May 19	May 25
ALLAKAKET, ALASKA - AUTUMN						
32°	Aug 23	Aug 17	Aug 8	Jul 31	Jul 23	Jul 16
28°	Sep 11	Sep 5	Aug 27	Aug 19	Aug 11	Aug 4
24°	Sep 30	Sep 24	Sep 15	Sep 7	Aug 30	Aug 23
20°	Oct 8	Oct 2	Sep 23	Sep 15	Sep 7	Aug 31
ANCHORAGE, ALASKA - SPRING						
32°	May 4	May 8	May 13	May 17	May 22	May 25
28°	Apr 18	Apr 22	Apr 27	May 1	May 6	May 9
24°	Apr 7	Apr 11	Apr 16	Apr 20	Apr 25	Apr 28
20°	Mar 30	Apr 3	Apr 8	Apr 12	Apr 17	Apr 20
ANCHORAGE, ALASKA - AUTUMN						
32°	Oct 3	Sep 28	Sep 20	Sep 14	Sep 7	Sep 1
28°	Oct 14	Oct 9	Oct 1	Sep 25	Sep 18	Sep 12
24°	Oct 26	Oct 21	Oct 13	Oct 7	Sep 30	Sep 24
20°	Nov 3	Oct 29	Oct 21	Oct 15	Oct 8	Oct 2
ANIAK, ALASKA - SPRING						
32°	May 26	May 31	Jun 6	Jun 12	Jun 18	Jun 23
28°	Apr 30	May 5	May 11	May 17	May 23	May 28
24°	Apr 18	Apr 23	Apr 29	May 5	May 11	May 16
20°	Apr 15	Apr 20	Apr 26	May 2	May 8	May 13
ANIAK, ALASKA - AUTUMN						
32°	Sep 8	Sep 3	Aug 26	Aug 20	Aug 13	Aug 7
28°	Sep 28	Sep 23	Sep 15	Sep 9	Sep 2	Aug 27
24°	Oct 13	Oct 8	Sep 30	Sep 24	Sep 17	Sep 11
20°	Oct 26	Oct 15	Oct 7	Oct 1	Sep 24	Sep 18

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

Deg. F.	90%	80%	60%	40%	20%	10%
BETHEL, ALASKA - SPRING						
32°	May 13	May 18	May 24	May 30	Jun 5	Jun 10
28°	May 3	May 8	May 14	May 20	May 26	May 31
24°	Apr 21	Apr 26	May 2	May 8	May 14	May 19
20°	Apr 15	Apr 20	Apr 26	May 2	May 8	May 13
BETHEL, ALASKA - AUTUMN						
32°	Sep 25	Sep 20	Sep 12	Sep 6	Aug 30	Aug 24
28°	Oct 12	Oct 7	Sep 29	Sep 23	Sep 16	Sep 10
24°	Oct 22	Oct 17	Oct 9	Oct 3	Sep 26	Sep 20
20°	Oct 29	Oct 24	Oct 16	Oct 10	Oct 3	Sep 27
BIG DELTA, ALASKA - SPRING						
32°	May 8	May 12	May 18	May 22	May 28	Jun 1
28°	Apr 26	Apr 30	May 6	May 10	May 16	May 20
24°	Apr 18	Apr 22	Apr 28	May 1	May 7	May 11
20°	Apr 13	Apr 17	Apr 23	Apr 27	May 3	May 7
BIG DELTA, ALASKA - AUTUMN						
32°	Sep 27	Sep 22	Sep 16	Sep 10	Sep 4	Aug 30
28°	Oct 5	Sep 30	Sep 24	Sep 18	Sep 12	Sep 7
24°	Oct 11	Oct 6	Sep 30	Sep 24	Sep 18	Sep 13
20°	Oct 16	Oct 11	Oct 5	Sep 29	Sep 23	Sep 18
EAGLE, ALASKA - SPRING						
32°	May 21	May 25	May 31	Jun 4	Jun 10	Jun 14
28°	May 10	May 14	May 20	May 24	May 30	Jun 3
24°	May 1	May 5	May 11	May 15	May 21	May 25
20°	Apr 22	Apr 26	May 2	May 6	May 12	May 16
EAGLE, ALASKA - AUTUMN						
32°	Sep 6	Sep 1	Aug 25	Aug 19	Aug 12	Aug 7
28°	Sep 17	Sep 12	Sep 5	Aug 30	Aug 23	Aug 18
24°	Oct 1	Sep 26	Sep 19	Sep 13	Sep 6	Sep 1
20°	Oct 10	Oct 5	Sep 28	Sep 22	Sep 15	Sep 10

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

Deg.F.	90%	80%	60%	40%	20%	10%
FAIRBANKS, ALASKA - SPRING						
32°	May 16	May 20	May 26	May 30	Jun 5	Jun 10
28°	May 5	May 9	May 15	May 19	May 25	May 29
24°	Apr 25	Apr 29	May 5	May 9	May 15	May 19
20°	Apr 16	Apr 20	Apr 26	Apr 30	May 6	May 10
FAIRBANKS, ALASKA - AUTUMN						
32°	Sep 10	Sep 5	Aug 28	Aug 22	Aug 14	Aug 8
28°	Sep 27	Sep 22	Sep 14	Sep 8	Aug 31	Aug 25
24°	Oct 9	Oct 4	Sep 26	Sep 20	Sep 12	Sep 6
20°	Oct 17	Oct 12	Oct 4	Sep 28	Sep 20	Sep 14
FT. YUKON, ALASKA - SPRING						
32°	May 17	May 20	May 24	May 28	Jun 1	Jun 4
28°	May 8	May 11	May 15	May 19	May 23	May 26
24°	May 3	May 6	May 10	May 14	May 18	May 21
20°	Apr 28	May 1	May 5	May 9	May 13	May 16
FT. YUKON, ALASKA - AUTUMN						
32°	Sep 11	Sep 5	Aug 28	Aug 20	Aug 12	Aug 6
28°	Sep 25	Sep 19	Sep 11	Sep 3	Aug 26	Aug 20
24°	Oct 3	Sep 27	Sep 19	Sep 11	Sep 3	Aug 28
20°	Oct 10	Oct 4	Sep 26	Sep 18	Sep 10	Sep 4
GALENA, ALASKA - SPRING						
32°	May 6	May 9	May 14	May 18	May 23	May 26
28°	Apr 29	May 2	May 7	May 11	May 16	May 19
24°	Apr 24	Apr 27	May 2	May 6	May 11	May 14
20°	Apr 21	Apr 24	Apr 29	May 3	May 8	May 11
GALENA, ALASKA - AUTUMN						
32°	Sep 26	Sep 21	Sep 15	Sep 9	Sep 3	Aug 29
28°	Oct 3	Sep 28	Sep 22	Sep 16	Sep 10	Sep 5
24°	Oct 11	Oct 6	Sep 30	Sep 24	Sep 18	Sep 13
20°	Oct 18	Oct 13	Oct 7	Oct 1	Sep 25	Sep 20

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

Deg.F.	90%	80%	60%	40%	20%	10%
HAINES, ALASKA - SPRING						
32°	Apr 20	Apr 26	May 5	May 13	May 21	May 28
28°	Mar 28	Apr 3	Apr 12	Apr 20	Apr 28	May 5
24°	Mar 14	Mar 20	Mar 29	Apr 6	Apr 14	Apr 21
20°	Mar 7	Mar 13	Mar 22	Mar 30	Apr 7	Apr 14
HAINES, ALASKA - AUTUMN						
32°	Oct 25	Oct 18	Oct 8	Sep 30	Sep 20	Sep 13
28°	Nov 4	Oct 28	Oct 18	Oct 10	Sep 30	Sep 23
24°	Nov 25	Nov 18	Nov 8	Oct 31	Oct 21	Oct 14
20°	Nov 29	Nov 22	Nov 12	Nov 4	Oct 25	Oct 18
HOLY CROSS, ALASKA - SPRING						
32°	May 12	May 17	May 25	May 31	Jun 7	Jun 13
28°	Apr 29	May 4	May 12	May 18	May 25	May 31
24°	Apr 21	Apr 26	May 4	May 10	May 17	May 23
20°	Apr 16	Apr 21	Apr 29	May 5	May 12	May 18
HOLY CROSS, ALASKA - AUTUMN						
32°	Sep 24	Sep 19	Sep 13	Sep 7	Sep 1	Aug 27
28°	Oct 8	Oct 3	Sep 27	Sep 21	Sep 15	Sep 10
24°	Oct 17	Oct 12	Oct 6	Sep 30	Sep 24	Sep 19
20°	Oct 24	Oct 19	Oct 13	Oct 7	Oct 1	Sep 26
HOMER, ALASKA - SPRING						
32°	May 14	May 19	May 27	Jun 2	Jun 9	Jun 15
28°	Apr 29	Apr 24	May 2	May 8	May 15	May 21
24°	Apr 4	Apr 9	Apr 17	Apr 23	Apr 30	May 6
20°	Mar 24	Mar 29	Apr 6	Apr 12	Apr 19	Apr 25
HOMER, ALASKA - AUTUMN						
32°	Oct 2	Sep 27	Sep 19	Sep 13	Sep 5	Aug 30
28°	Oct 13	Oct 8	Sep 30	Sep 24	Sep 16	Sep 10
24°	Oct 29	Oct 24	Oct 16	Oct 10	Oct 2	Sep 26
20°	Nov 13	Nov 8	Oct 31	Oct 25	Oct 17	Oct 11

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

Deg.F.	90%	80%	60%	40%	20%	10%
ILIAMNA, ALASKA - SPRING						
32°	Apr 29	May 7	May 17	May 27	Jun 6	Jun 14
28°	Apr 15	Apr 23	May 3	May 13	May 23	May 31
24°	Apr 3	Apr 11	Apr 21	May 1	May 11	May 19
20°	Apr 1	Apr 9	Apr 19	Apr 29	May 9	May 17
ILIAMNA, ALASKA - AUTUMN						
32°	Oct 5	Sep 30	Sep 25	Sep 19	Sep 14	Sep 9
28°	Oct 16	Oct 11	Oct 6	Sep 30	Sep 25	Sep 20
24°	Oct 23	Oct 18	Oct 13	Oct 9	Oct 4	Sep 29
20°	Nov 1	Oct 27	Oct 22	Oct 16	Oct 11	Oct 6
KASILAF, ALASKA - SPRING						
32°	May 15	May 21	May 29	Jun 4	Jun 12	Jun 18
28°	Apr 27	May 3	May 11	May 17	May 25	May 31
24°	Apr 12	Apr 18	Apr 26	May 2	May 10	May 16
20°	Apr 1	Apr 7	Apr 15	Apr 21	Apr 29	May 5
KASILAF, ALASKA - AUTUMN						
32°	Sep 12	Sep 9	Sep 5	Sep 3	Aug 30	Aug 27
28°	Sep 30	Sep 27	Sep 23	Sep 21	Sep 18	Sep 15
24°	Oct 14	Oct 11	Oct 7	Oct 5	Oct 1	Sep 28
20°	Oct 23	Oct 20	Oct 16	Oct 14	Oct 10	Oct 7
KETCHIKAN, ALASKA - SPRING						
32°	Apr 1	Apr 8	Apr 18	Apr 26	May 6	May 13
28°	Mar 6	Mar 13	Mar 23	Mar 31	Apr 10	Apr 17
24°	Feb 12	Feb 19	Mar 1	Mar 9	Mar 19	Mar 26
20°						
KETCHIKAN, ALASKA - AUTUMN						
32°	Nov 18	Nov 11	Nov 2	Oct 25	Oct 16	Oct 9
28°	Dec 9	Dec 2	Nov 23	Nov 15	Nov 6	Oct 30
24°	Dec 22	Dec 15	Dec 6	Nov 28	Nov 19	Nov 12
20°						

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

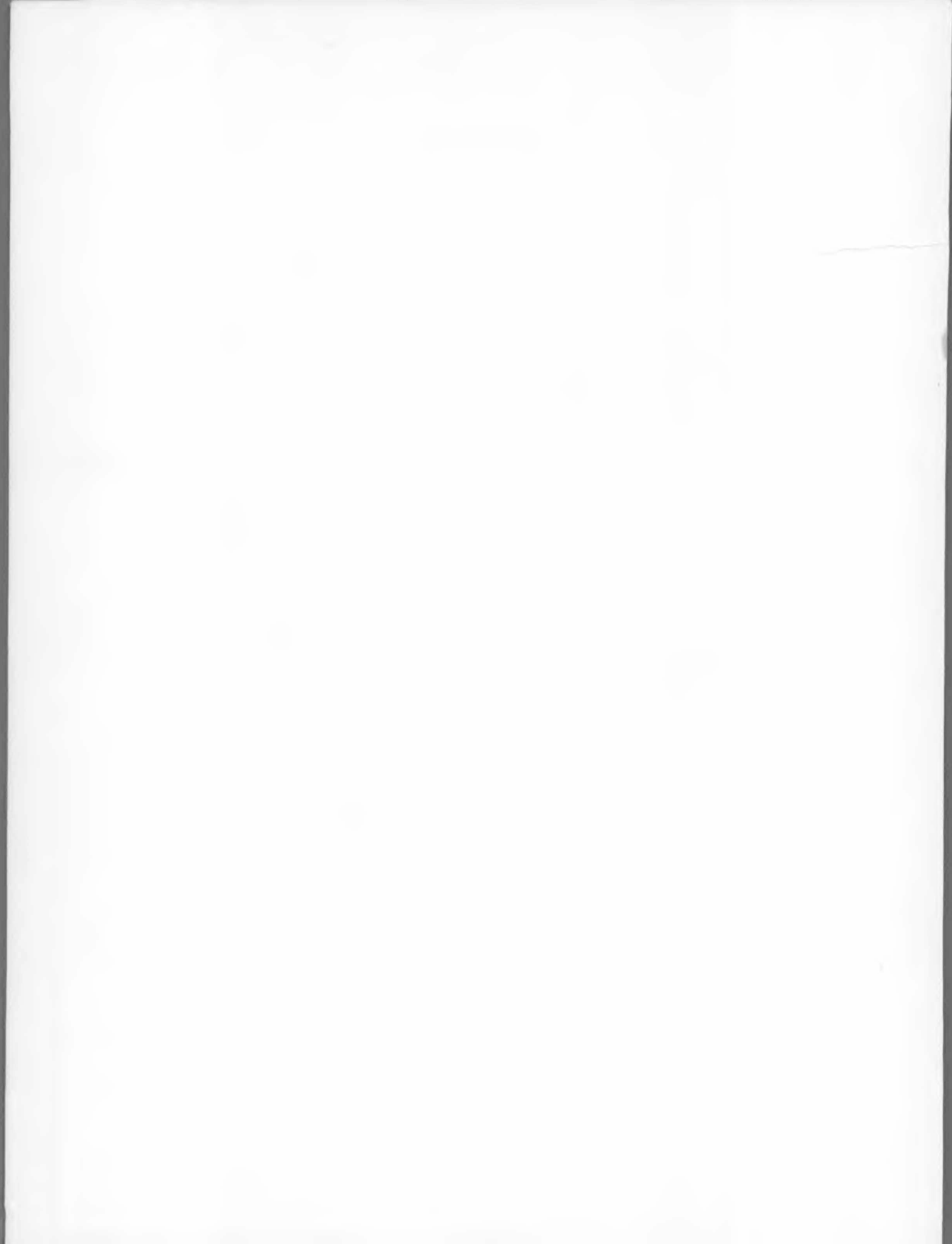
Deg. F.	90%	80%	60%	40%	20%	10%
KODIAK, ALASKA - SPRING						
32°	Apr 16	Apr 22	Apr 30	May 8	May 16	May 22
28°	Apr 5	Apr 11	Apr 19	Apr 27	May 5	May 11
24°	Mar 15	Mar 21	Mar 29	Apr 6	Apr 14	Apr 20
20°	Mar 5	Mar 11	Mar 19	Mar 27	Apr 4	Apr 10
KODIAK, ALASKA - AUTUMN						
32°	Oct 30	Oct 23	Oct 14	Oct 7	Sep 28	Sep 21
28°	Nov 14	Nov 7	Oct 29	Oct 21	Oct 12	Oct 5
24°	Dec 5	Nov 28	Nov 19	Nov 11	Nov 2	Oct 26
20°	Dec 12	Dec 5	Nov 26	Nov 18	Nov 9	Nov 2
MATANUSKA (AES), ALASKA - SPRING						
32°	May 8	May 14	May 21	May 27	Jun 3	Jun 9
28°	Apr 18	Apr 24	May 1	May 7	May 14	May 20
24°	Apr 7	Apr 13	Apr 20	Apr 26	May 3	May 9
20°	Mar 28	Apr 3	Apr 10	Apr 16	Apr 23	Apr 28
MATANUSKA (AES), ALASKA - AUTUMN						
32°	Sep 25	Sep 19	Sep 12	Sep 6	Aug 30	Aug 24
28°	Oct 5	Sep 29	Sep 22	Sep 16	Sep 9	Sep 3
24°	Oct 20	Oct 14	Oct 7	Oct 1	Sep 24	Sep 18
20°	Oct 28	Oct 22	Oct 15	Oct 9	Oct 2	Sep 26
MC GRATH, ALASKA - SPRING						
32°	May 12	May 16	May 20	May 24	May 28	Jun 1
28°	May 2	May 6	May 10	May 14	May 18	May 22
24°	Apr 22	Apr 26	Apr 30	May 4	May 8	May 12
20°	Apr 19	Apr 23	Apr 27	May 1	May 5	May 9
MC GRATH, ALASKA - AUTUMN						
32°	Sep 19	Sep 14	Sep 8	Sep 2	Aug 27	Aug 22
28°	Oct 2	Sep 27	Sep 21	Sep 15	Sep 9	Sep 4
24°	Oct 10	Oct 5	Sep 29	Sep 23	Sep 17	Sep 12
20°	Oct 16	Oct 11	Oct 5	Sep 29	Sep 23	Sep 18

Table 7. PROBABILITY OF LIGHT TO SEVERE FROST OCCURRING AFTER SPRING OR BEFORE AUTUMN DATES SHOWN

Deg. F.	90%	80%	60%	40%	20%	10%
NOME, ALASKA - SPRING						
32°	May 26	May 31	Jun 7	Jun 13	Jun 20	Jun 25
28°	May 9	May 14	May 21	May 27	Jun 3	Jun 8
24°	Apr 26	May 1	May 8	May 14	May 21	May 26
20°	Apr 21	Apr 26	May 3	May 8	May 15	May 20
NOME, ALASKA - AUTUMN						
32°	Sep 17	Sep 9	Aug 30	Aug 22	Aug 12	Aug 4
28°	Oct 5	Sep 27	Sep 17	Sep 9	Aug 30	Aug 22
24°	Oct 21	Oct 13	Oct 3	Sep 25	Sep 15	Sep 7
20°	Oct 30	Oct 22	Oct 12	Oct 4	Sep 24	Sep 16
TALKEETNA, ALASKA - SPRING						
32°	May 19	May 24	May 30	Jun 5	Jun 11	Jun 16
28°	May 6	May 11	May 17	May 23	May 29	Jun 3
24°	Apr 22	Apr 27	May 3	May 9	May 15	May 20
20°	Apr 11	Apr 16	Apr 22	Apr 28	May 4	May 9
TALKEETNA, ALASKA - AUTUMN						
32°	Sep 17	Sep 10	Sep 1	Aug 24	Aug 15	Aug 8
28°	Oct 5	Sep 28	Sep 19	Sep 11	Sep 2	Aug 26
24°	Oct 17	Oct 10	Oct 1	Sep 23	Sep 14	Sep 7
20°	Oct 28	Oct 21	Oct 12	Oct 4	Sep 25	Sep 18
YAKUTAT, ALASKA - SPRING						
32°	May 4	May 10	May 19	May 27	Jun 5	Jun 11
28°	Apr 9	Apr 15	Apr 24	May 2	May 11	May 17
24°	Mar 26	Apr 1	Apr 10	Apr 18	Apr 27	May 3
20°	Mar 12	Mar 18	Mar 27	Apr 4	Apr 13	Apr 19
YAKUTAT, ALASKA - AUTUMN						
32°	Oct 18	Oct 10	Sep 29	Sep 19	Sep 8	Aug 31
28°	Nov 5	Oct 28	Oct 17	Oct 7	Sep 26	Sep 18
24°	Nov 26	Nov 18	Nov 7	Oct 28	Oct 17	Oct 9
20°	Dec 4	Nov 26	Nov 15	Nov 5	Oct 25	Oct 17

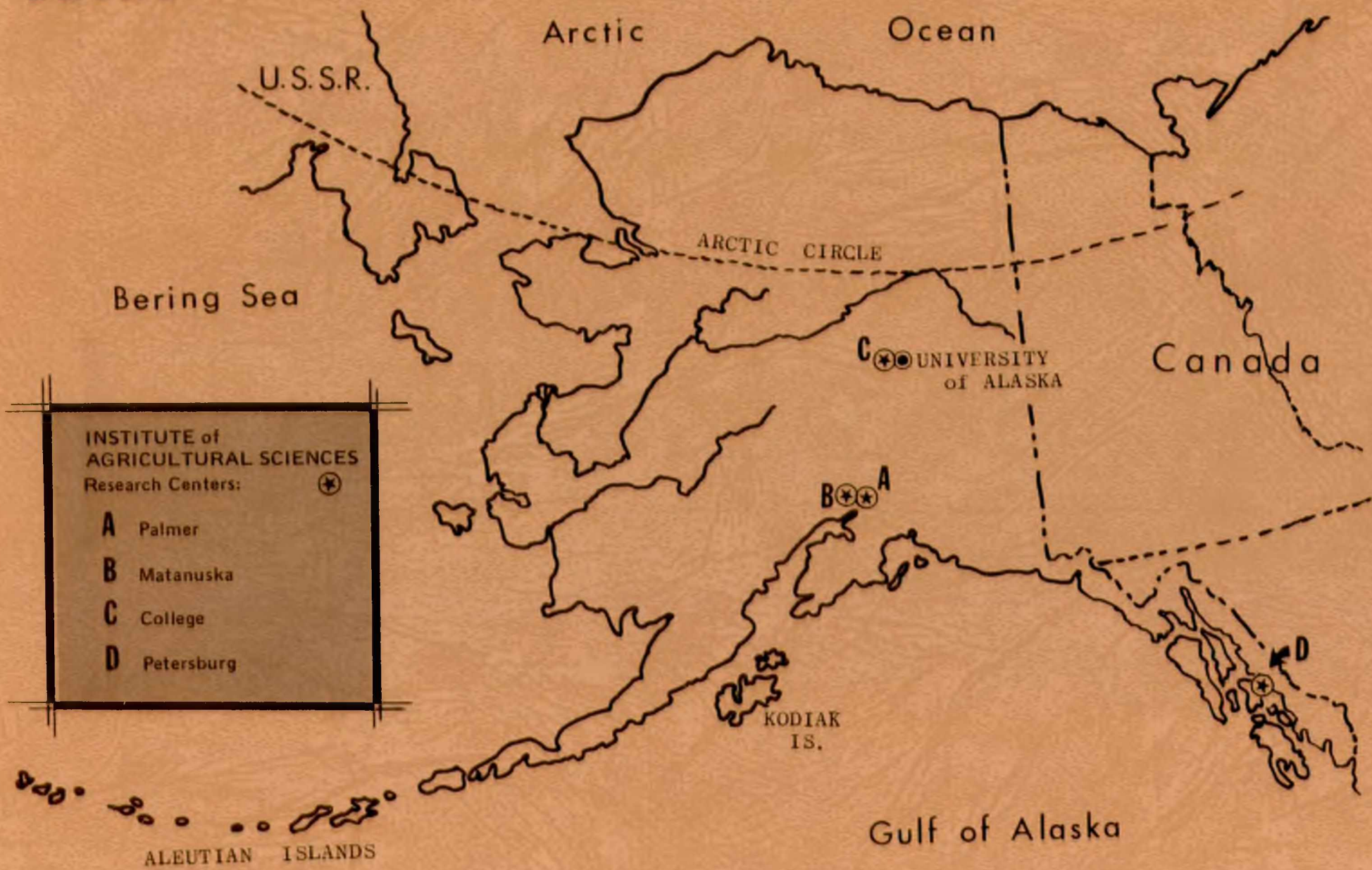
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