U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU IN COOPERATION WITH UTAH COMMITTEE ON INDUSTRIAL AND EMPLOYMENT PLANNING

CLIMATOLOGICAL SUMMARY

LATITUDE 37° 3'
LONGITUDE 112° 31'
ELEV. (GROUND) 5,010 Feet

STATION

KANAB, UTAH

MEANS AND EXTREMES FOR PERIOD 1936 - 1965

Month	Temperature (°F) Means: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	** Mean degree days	Precipitation Totals (Inches): Mean	Greatest daily	Year	Snow, Sleet: Mean	Maximum monthly	Year	Greatest daily	Year	Mean number of days: Precip. .10 inch or more	Temperatures Max. 90° and above	Max. 32° and below	Min. 32° and below	Min. 0° and below	Month
(a)	29	29	29	29		29		##	30	30		30	30		30		30	29	29	29	29	
Jan.	47.6	22.0	34.8	67	1943	-20	1937	942	1.44	1.63	1943	8.4	40.1	1949	12.2	1951	4	0	2	28	1	Jan.
Feb.	52.1	25.3	38.7	74	1954	-12	1949	748	1.28	1.41	1954	3.7	19.5	1939	11.5	1939	3	0	1	22	*	Feb.
Mar.	58.8	29.2	44.0	81	1943	3	1952	626	1.32	1.23	1958	3.7	19.5	1964	11.0	1945	3	0	0	21	0	Mar.
Apr.	68.8	36.5	52.7	88	1959	16	1955	360	.87	.71	1960	1.1	10.0	1965	5.5	1949	3	0	0	8	0	Apr.
May	78.3	43.4	60.8	97	1951/	22	1953	174	.55	1.07	1965	*	2.0	1950	2.0	1950	2	2	0	2	0	May
June	88.2	51.1	69.6	107	1954	30	1955	30	.41	1.40	1956	*	T	1965	0	--	1	13	0	*	0	June
July	94.4	58.8	76.6	106	1959/	45	1955	0	.71	1.58	1950	0	0	--	0	--	2	26	0	0	0	July
Aug.	91.5	57.8	74.6	106	1937	40	1947	0	1.43	1.46	1951	*	T	1953	0	--	4	20	0	0	0	Aug.
Sept.	85.6	51.5	68.5	103	1955	30	1965	27	1.09	2.08	1958	*	T	1954	T	1954	2	9	0	0	0	Sept.
Oct.	73.9	41.4	57.7	93	1950	18	1949	248	1.07	1.40	1943	0.8	2.5	1949	2.5	1949	3	1	0	3	0	Oct.
Nov.	59.4	30.4	44.9	80	1962	10	1952	603	.86	1.42	1965	1.3	8.0	1955	8.0	1955	2	0	*	18	0	Nov.
Dec.	50.3	24.7	37.5	74	1950	- 8	1945	859	1.35	1.47	1951	5.6	27.0	1936	15.0	1936	3	0	1	26	*	Dec.
Year	70.7	39.3	55.0	107	June 1954	-20	Jan. 1937	4617	12.38	2.08	1958	24.6	40.1	1949	15.0	1936	32	71	4	128	1	Year

(a) Average length of record, years.

T Trace, an amount too small to measure.

** Base 65°F

\+ Also on earlier dates, months, or years.

* Less than one half.

CLIMATE OF KANAB, UTAH

Kanab is located in a narrow river valley in Kane County of southwestern Utah. Kanab Creek, a relatively small stream which heads in the mountains 25 miles to the north, skirts the western edge of the city. The terrain is generally rough and hilly. The Vermillion Cliffs, about one-half to one mile distant, rise abruptly to over 6,000 feet above sea level and extend in a nearly continuous line from northeast to west of Kanab.

One of the important climatic controls is the imposing mountain barrier which lies 50 miles to the north and northwest. These mountains, with several peaks extending to above ten thousand feet MSL, provide a sheltering effect from storms associated with northerly or northwesterly winds. During the summer and early Fall when moisture-laden air masses occasionally move into the area from the Gulf of Mexico, the mountains contribute to development of thunderstorms in the vicinity of Kanab. These storms occasionally produce heavy downpours of rain (commonly called cloudbursts), and may bring 1-1/2 inches or more of precipitation in a few hours.

The climate is temperate and semi-arid. Summers are characterized by hot days and relatively cool nights. The average daily temperature range during this season is 35 degrees, with maxima generally in the high 80's or low 90's and night-time minima in the 50's.

There are two separate rainfall seasons, although the precipitation averages only 12-1/2 inches annually. The first occurs in winter and early spring when Pacific storms moving through the region are more intense than at other seasons. The second rainfall period occurs in August and September, with thunderstorms accounting for most of the rain during those months.

Bright, sunny weather is the rule, especially during the late spring and early summer. Winds are generally light to moderate in all seasons and the extremely strong winds that rarely occur are usually associated with local thunderstorms. Relative humidity is rather low, particularly in summer. Thus, the high daytime temperatures during this season are not as oppressive as in more humid climates. Snowfall is light, averaging only 26 inches annually; but as much as 79 inches has been reported in an extreme season.

The growing season, or freeze-free period, averages about 5-1/2 months and extends from early May to late October. Production of livestock and livestock products are the principal agricultural activities. Most important crops grown are hay, alfalfa seed, and apples.

Following are tables of Miscellaneous phenomena, not included in the climatological summary table:

Average Dates of Occurrences of Various Temperature Values:

Temperature Equal to or Lower Than:	Average Dates of Occurrence: Last in Spring	First in Fall	Length of Period, Days
32°	May 8	October 18	163
28°	April 18	October 29	194
24°	April 1	November 7	220
20°	March 12	November 21	254
16°	February 24	November 28	277

Extremes of Temperature and Precipitation which have occurred prior to 1936 and which exceed those appearing in the table include:

Maximum Temperature:
68° in January 1929
81° in November 1924

Minimum Temperature:
2° in March 1913
12° in April 1929
42° in July 1920
35° in August 1914
26° in September 1914
15° in October 1935
- 4° in November 1931
-11° in December 1911

Greatest Daily Precipitation:
1.76 inches in January 1921
1.84 inches in February 1932
2.40 inches in March 1906
1.35 inches in April 1917
1.60 inches in July 1904
1.75 inches in October 1925
2.05 inches in November 1902

Greatest and least monthly precipitation totals for the full period of record are as follows:

Month	Greatest	Year	Least	Year
January	5.51	1916	0	1926
February	5.57	1932	0	1900
March	8.50	1906	0	1956/
April	4.51	1926	T	1955/
May	2.67	1965	0	1936
June	1.96	1914	0	1958/
July	4.23	1917	0	1920/
August	3.75	1963	0	1900/
September	7.26	1939	0	1957/
October	4.40	1876	0	1955/
November	3.98	1902	0	1956/
December	4.35	1921	0	1930/
Annual	20.29	1941	7.25	1950

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1936	34.8	37.6	45.8	55.4	63.6	72.6	75.3	73.5	--	--	--	37.3	--
1937	18.2	36.4	45.2	52.0	64.8	69.7	77.4	79.1	72.2	60.6	47.6	39.8	55.2
1938	38.0	--	--	53.5	58.8	70.0	74.2	73.8	71.2	56.8	39.4	38.0	--
1939	35.8	27.2	45.9	56.0	62.0	70.2	76.6	77.4	65.6	54.6	49.8	40.8	55.2
1940	37.0	39.2	48.5	53.8	64.2	74.4	77.6	75.5	68.0	--	42.8	36.9	--
1941	36.8	43.3	45.1	47.6	60.9	66.8	76.4	71.1	63.6	52.6	45.2	37.6	53.9
1942	34.6	32.8	43.4	52.8	58.3	69.3	78.8	75.6	67.8	56.2	46.9	40.2	54.7
1943	37.8	42.3	47.1	55.9	60.9	66.6	76.2	74.6	70.6	58.4	47.4	37.4	56.3
1944	35.0	36.3	42.3	47.2	59.7	65.0	74.4	75.8	70.5	59.6	43.0	38.5	53.9
1945	38.4	40.6	41.2	50.0	60.4	66.4	77.4	75.2	68.2	57.8	43.9	32,4	54.3
1946	34.8	38.3	45.8	55.6	59.1	70.7	76.6	76.1	69.2	51.2	42.2	41.2	55.1
1947	34.4	44.8	47.6	52.3	65.6	68.6	76.5	74.0	71.2	57.5	40.9	33.0	55.5
1948	38.0	34.2	38.3	53.0	61.0	68.6	75.3	74.1	70.0	58.2	41.2	33.9	53.8
1949	23.4	28.5	43.8	55.9	--	69.7	76.1	72.5	69.8	54.2	51.6	33.5	--
1950	32.4	42.6	46.4	54.8	60.1	69.4	75.7	74.4	66.8	62.2	49.1	44.4	56.5
1951	34.7	39.5	43.3	53.0	60.8	69.0	77.4	73.4	68.7	55.2	41.9	33.0	54.2
1952	32.9	37.6	38.4	54.0	62.0	67.6	75.6	75.5	70.3	63.3	40.5	34.9	54.4
1953	41.3	38.8	46.2	51.2	55.1	69.7	78.8	73.8	70.3	57.0	47.4	34.2	55.3
1954	38.8	46.8	42.6	58.1	64.3	69.0	78.2	72.4	68.2	58.8	49.2	36.5	56.9
1955	29.5	32.7	44.2	50.5	60.0	68.9	75.3	76.6	69.4	61.2	45.1	41.1	54.5
1956	41.1	36.1	46.8	52.5	62.7	72.3	76.0	73.1	71.7	57.0	44.2	38.7	56.0
1957	35.7	45.7	47.2	51.6	57.2	72.3	76.4	73.3	68.5	55.2	40.3	40.7	55.4
1958	37.1	43.8	40.3	50.7	64.2	71.1	75.5	78.7	69.8	60.2	44.4	43.3	56.6
1959	38.1	--	--	57.1	59.8	74.5	80.3	74.7	66.3	58.1	47.7	39.6	56.5
1960	30.1	36.1	48.3	54.5	62.1	74.2	79.4	76.7	71.9	55.9	46.3	35.7	55.9
1961	39.0	42.0	43.9	52.9	61.3	75.6	80.1	76.1	64.6	55.7	42.0	32.6	55.5
1962	34.3	40.7	40.6	--	--	--	74.4	73.9	68.5	57.6	49.2	39.2	--
1963	30.4	44.6	43.1	48.5	62.5	66.1	75.9	73.6	68.9	59.9	46.4	32.2	54.7
1964	32.5	35.0	39.2	48.6	57.8	67.6	76.7	73.3	64.8	61.1	41.8	36.7	52.9
1965	39.0	39.8	41.1	49.2	56.4	64.1	73.8	73.0	61.5	59.9	47.4	37.4	53.6

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1936	0.04	3.41	0.94	0.08	0.00	0.02	1.83	0.86	0.20#	2.75#	0.30#	3.52	13.95
1937	2.40	3.77	1.78	T	0.27	0.43	1.36	0.35	1.67	0.01	0.02	1.22	13.28
1938	1.62	1.80	3.97	T	1.76	0.58	0.19	1.42	0.52	0.72	0.39	1.11	14.08
1939	2.19	1.21	1.34	0.75	0.07	T	0.18	0.20	7.26	0.43	0.60	0.11	14.34
1940	2.37	2.89	0.09	0.88	0.65	0.02	0.25	1.61	4.47	1.27	1.06	3.47	19.03
1941	1.46	2.28	3.13	2.56	0.64	0.20	1.87	1.53	0.89	3.16	0.69	1.88	20.29
1942	0.25	1.24	0.97	1.98	0.07	0.00	0.41	1.22	0.08	0.53	0.99	1.31	09.05
1943	4.15	0.72	2.06	0.57	0.12	0.02	0.31	1.85	1.19	1.45	0.17	1.50	14.11
1944	2.45	2.17	0.36	1.02	0.96	0.40	0.07	0.11	0.16	0.01	1.07	0.81	09.59
1945	0.46	1.76	3.42	0.24	0.09	0.24	0.44	1.99	0.03	1.94	0.15	1.09	11.85
1946	0.31	0.23	1.64	1.49	0.52	0.03	1.06	1.46	0.13	3.51	1.72	1.80	13.90
1947	0.39	0.14	T	0.33	0.66	0.99	0.22	2.75	0.03	1.30	0.36	2.66	09.83
1948	0.10	0.78	1.29	0.81	0.04	1.11	0.69	1.28	0.56	1.48	0.03	1.65	09.82
1949	2.79	1.21	1.03	0.67	0.22	1.94	0.40	1.90	0.60	1.28	0.67	2.19	14.90
1950	1.15	0.91	0.34	0.18	0.57	0.00	3.07	0.42	0.28	T	0.25	0.08	07.25
1951	1.65	0.67	1.43	1.35	0.59	0.00	0.33	3.06	0.64	0.47	0.33	3.74	14.26
1952	2.99	0.15	1.78	2.19	0.20	1.33	0.69	1.49	0.63	0.00	0.95	1.19	13.59
1953	0.88	T	0.20	0.91	0.22	0.14	1.26	2.88	0.02	0.44	0.78	1.02	08.75
1954	1.74	2.05	2.13	0.57	0.48	0.65	0.76	1.05	1.78	0.86	0.69	1.54	14.30
1955	2.12	0.56	0.19	T	0.19	0.49	0.93	1.73	0.01	0.00	2.08	0.86	09.16
1956	2.10	0.07	0.00	0.68	0.25	1.40	0.05	0.16	0.01	0.62	0.00	0.09	05.43
1957	3.84	0.86	0.42	0.36	2.31	1.00	1.41	1.47	0.00	3.00	1.67	1.03	17.37
1958	0.61	1.68	3.82	0.63	0.95	0.00	0.44	0.89	4.28	0.52	0.81	T	14.63
1959	0.52	1.76	T	0.09	0.20	0.12	0.55	2.27	0.11	0.82	1.05	1.82	09.31
1960	1.53	1.04	0.78	1.06	0.21	0.13	0.36	0.85	1.03	1.87	1.21	0.30	10.37
1961	0.65	T	1.31	0.42	0.26	T	1.12	1.94	1.15	0.23	1.35	0.50	11.87
1962	1.22	3.27	0.55	0.04	0.40	0.17	0.04	0.15	2.54	1.24	0.34	0.54	10.50
1963	0.82	1.23	0.59	0.89	0.02	0.14	0.09	3.75	1.43	1.21	1.69	0.01	11.87
1964	0.19	0.00	1.77	1.88	0.92	0.12	0.65	1.79	0.35	T	0.69	0.68	09.04
1965	0.34	0.40	2.26	3.52	2.67	0.59	0.29	0.50	0.67	0.86	3.70	2.70	18.50

STATION HISTORY - KANAB, UTAH

The weather station at Kanab, which was established in December 1899, has been moved frequently during its history. However, all moves have been for short distances. * Mr. S. Brinkerhoff, the forst observer, recorded daily precipitation amounts from December 1899 through August 1900, but these records were incomplete and inaccurate. After a two-year break in the record, maximum and minimum thermometers were added to the station equipment in September 1902 and Mr. Z. K. Judd became the official observer, serving until October 1903.

From November 1903 to December 1936 there were several breaks in the record but the following periods were covered (observers listed in parantheses): November 1903 - July 1907 (E. M. Ford); July 1911 - October 1911 (W. J. F. McAllister); November 1911 - October 1913 (J. S. Dalley); November 1913 - July 1916 (D. D. Rust); February 1917 - March 1918 (Edwin E. Ford); October 1918 - October 1919 (D. D. Rust); January 1920 - August 1921 (W. W. Adair); January 1922 - March 1923 (Lucy Z. Roak); April 1923 - July 1926 (Ora W. Eatough); July 1926 - March 1934 (Mrs. Florian Johnson); and April 1934 - August 1936 (Mrs. Israel Heaton).

In December 1936 the station was moved to Dixie Power Company located 0.3 mile NNE of the Post Office. Mr. Gurnsey Brown became official observer at that time and has faithfully recorded observations to the present, a period of over 22 years. He is to be commended for his fine contribution to knowledge of the climate of the Kanab area.

In June 1957 the equipment was moved 200 feet from the north to the south side of the Power House. Observations continued at the power plant until it closed in 1962. In July 1962 the station was moved to the home of Mr. Sterling L. Johnson who is the present observer.

*Latitude has been 37°03' N. and Longitude 112°31' W. at all locations of the station. An analysis of the precipitation data for 1915 - 1957 indicates the precipitation records at the various locations during that period are compatible.

KANAB CLIMATOLOGICAL SUMMARY

Monthly Averages 1936 - 1965