U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU IN COOPERATION WITH
UTAH COMMITTEE ON INDUSTRIAL AND EMPLOYMENT PLANNING AND
UNIVERSITY OF UTAH BUREAU OF ECONOMIC AND BUSINESS RESEARCH
CLIMATOGRAPHY OF THE UNITED STATES 20 - 42

LATITUDE 37° 49'
LONGITUDE 112° 27'
ELEV. (GROUND) 6,720 Ft.

STATION

PANGUITCH, UTAH

MEANS AND EXTREMES FOR PERIOD

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)	27	27	27	27		27			30	30		30	30		30		30	27	27	27	27	
Jan.	38.1	5.9	22.1	62	1951	- 38	1937	1330	0.54	0.65	1952	7.1	32.0	1949	10.0	1952	2	0	8	31	10	Jan.
Feb.	42.2	11.4	26.8	66	1953	- 31	1933	1070	0.50	0.80	1948	5.2	20.0	1948	10.0	1932	2	0	4	28	6	Feb.
Mar.	49.7	18.4	34.0	71	1934	- 11	1939	958	0.75	1.90	1938	4.9	12.5	1944	7.0	1952	3	0	1	30	1	Mar.
Apr.	61.1	24.8	42.9	82	1950	1	1955	660	0.60	0.55	1948+	1.2	9.0	1945	6.0	1945	2	0	*	26	0	Apr.
May	68.8	30.4	49.6	89	1951	10	1930	477	0.53	1.03	1937	0.4	4.0	1930	3.0	1930	2	0	0	20	0	May
June	77.8	36.7	57.3	96	1951	21	1951+	250	0.49	0.87	1940	T	T	1944	T	1944	1	1	0	7	0	June
July	83.1	44.3	63.7	95	1951+	29	1948+	70	1.55	1.68	1932	0	0		0		4	3	0	*	0	July
Aug.	80.9	43.0	62.1	95	1940	28	1949+	110	1.53	1.40	1935	0	0		0		4	1	0	1	0	Aug.
Sept.	75.9	34.4	55.1	90	1955	16	1934	297	0.89	1.88	1939	0	0		0		2	*	0	12	0	Sept.
Oct.	65.5	24.6	45.1	83	1947	0	1935	617	0.82	1.11	1940	0.9	11.0	1948	6.0	1948	2	0	0	26	*	Oct.
Nov.	52.0	15.4	33.7	77	1934	- 16	1952	939	0.37	0.44	1952	3.1	12.5	1938	7.0	1952	1	0	1	29	1	Nov.
Dec.	41.0	8.2	24.6	63	1950+	- 32	1932	1252	0.62	0.95	1936	6.0	14.8	1940	11.0	1940	2	0	6	31	8	Dec.
Year	61.3	24.8	43.0	96	June 1951	- 38	Jan. 1937	8030	9.19	1.90	Mar. 1938	28.8	32.0	Jan. 1949	11.0	Dec. 1940	27	5	20	241	26	Year

Estimated from monthly means using Weather Bureau formula.

(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 PANGUITCH, UTAH

Panguitch, in Garfield County, is located in a high valley of southwestern Utah and is surrounded by higher terrain in all directions. The Markagunt Plateau, with peaks extending to above 10,000 feet MSL, lies 5 to 10 miles to the west and south. About the same distance to the east and southeast is the Paunsaugunt Plateau, which rises 2 to 3 thousand feet above the station. To the north are the Tushar Mountains and to the northeast is the Sevier Plateau, both of which extend to above 10,000 feet MSL. The sheltering effect afforded by the surrounding mountains and the prevailing westerly flow of relatively dry air over the region are the principal reasons for the light annual precipitation at Panguitch.

Panguitch has a semiarid continental climate with four well-defined seasons. Generally clear skies, dry air, meager precipitation, and large annual and daily ranges of temperature are some of the important features of the climate.

Primarily because of the altitude (6720 ft.), summers are delightfully cool. The average daily maximum temperature during the hottest month, July, is only 83°; and rarely does the temperature climb above 90° during the warm season. Summer nights are cool, with most minima in the 40's or high 30's.

Winters are cold and uncomfortable, but usually not extremely severe. Temperatures below zero occur in every winter season, and in one of about every two years temperatures colder than 20 degrees below zero are reported. Snowfall, which accounts for about 1/3 of the average annual precipitation, is relatively light, averaging only 29 inches per year.

The principal rainfall season is in July and August, when the monthly precipitation averages over 1-1/2 inches. Most of the precipitation during those months occurs as thundershowers associated with moist air masses moving into the area from the Gulf of Mexico.

Winds are generally light to moderate in all seasons, averaging normally below 20 miles per hour. The very strong winds that rarely occur are usually associated with local thundershowers.

The growing season, or freeze-free period, is very short, averaging only slightly over 2 months in length. Livestock and livestock products are the principal agricultural activities in the area. The most important crop grown is potatoes.

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

Average Dates of Occurrence 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°	June 17	August 23	67
28°	June 8	September 14	98
24°	May 23	September 26	126
20°	May 6	October 9	156
16°	April 16	October 24	191

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

Maximum Temperature:
91° in September 1917
85° in October 1958

Minimum Temperature:
-15° in March 1919
- 2° in April 1921
17° in June 1924
14° in September 1912

Greatest Daily Precipitation
1.27 inches in January 1915
1.20 inches in April 1906
1.44 inches in May 1919
1.20 inches in October 1908
0.91 inches in November 1915

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

Month	Greatest	Year	Least	Year	Median
January	5.20	1910	0.02	1953	0.50
February	2.35	1909	T	1953	0.43
March	2.93	1906	T	1915/	0.67
April	2.22	1941	T	1936	0.49
May	2.31	1919	0	1948/	0.44
June	1.89	1914	0	1950/	0.35
July	3.97	1929	0.07	1949	1.39
August	4.42	1947	0.26	1956	1.28
September	4.59	1940/	0	1948/	0.51
October	4.37	1912	0	1955/	0.50
November	2.58	1957	0	1932/	0.30
December	1.98	1949	T	1905	0.56
Annual	18.02	1910	5.44	1942	8.90

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	20.6	28.8	33.5	42.1	48.9	57.0	61.2	59.2	51.3	45.0	35.6	22.7	42.2
1927	27.8	31.8	36.2	42.8	48.6	59.8	63.6	58.5	52.6	44.8	38.0	18.6	43.6
1928	23.2	29.8	37.7	—	—	—	61.1	59.8	54.2	45.2	34.4	19.9	—
1929	17.6	19.2	33.6	39.6	48.5	54.4	64.3	62.1	53.2	43.0	30.5	30.0	41.3
1930	—	34.6	34.6	45.8	44.8	57.1	62.2	61.2	52.8	41.8	—	20.6	—
1931	24.2	33.1	33.8	43.7	49.8	58.0	65.7	62.7	55.0	46.0	29.2	18.8	43.3
1932	15.8	24.0	33.8	41.9	49.5	56.9	62.0	60.6	54.4	44.0	35.4	14.4	41.1
1933	15.3	11.6	34.8	38.0	44.4	58.5	65.7	61.0	58.0	47.8	35.8	26.8	41.5
1934	28.2	34.6	41.3	46.6	54.5	56.2	65.4	64.6	54.8	48.0	36.4	24.6	46.3
1935	26.9	30.6	32.4	43.4	48.8	59.4	62.8	63.0	56.8	43.6	31.5	26.1	43.8
1936	24.6	29.0	36.1	44.8	53.8	61.7	63.8	63.1	54.2	—	35.6	28.2	—
1937	6.6	24.9	32.6	43.2	53.8	57.8	64.2	64.4	57.1	45.7	36.0	30.4	43.1
1938	26.0	27.4	33.2	43.3	46.3	58.2	63.0	63.4	56.9	45.9	27.8	28.2	43.3
1939	24.6	14.6	34.4	45.6	51.4	57.6	64.2	63.7	56.1	44.0	36.9	31.4	43.7
1940	25.5	33.4	37.2	44.4	53.2	60.7	64.4	64.5	55.8	46.0	31.5	26.0	45.2
1941	25.0	33.2	36.0	37.5	50.2	55.2	62.5	60.4	51.6	42.4	34.9	28.3	43.1
1942	22.3	23.4	31.8	42.7	48.0	56.5	64.3	62.2	53.8	45.4	37.2	30.0	43.1
1943	26.6	27.6	36.6	46.2	49.7	55.0	63.6	62.3	56.2	46.7	34.9	26.6	44.3
1944	19.6	23.7	29.8	38.8	49.4	54.8	61.6	62.0	56.0	46.3	32.8	25.9	41.8
1945	26.2	29.9	31.6	39.2	48.8	54.5	63.0	64.0	54.0	46.7	31.4	22.4	42.6
1946	19.0	24.6	36.0	48.7	49.7	60.4	65.6	63.2	55.6	41.2	32.5	30.4	43.9
1947	21.2	32.8	37.4	43.2	—	—	63.5	62.0	57.5	46.2	30.2	21.6	—
1948	26.2	24.3	28.0	42.8	50.2	56.0	62.4	60.8	56.2	43.9	30.8	23.4	42.1
1949	13.0	16.3	32.2	43.8	48.5	—	63.2	—	55.7	39.6	38.1	19.5	—
1950	17.3	29.8	—	44.7	47.4	55.6	62.7	59.4	53.4	49.1	37.5	31.5	—
1951	22.6	29.4	32.8	42.8	50.1	55.9	63.9	61.1	55.8	43.4	30.9	19.4	42.3
1952	19.7	21.0	28.1	43.8	50.8	56.6	63.4	63.8	55.3	48.1	24.9	23.4	41.6
1953	31.4	28.8	34.8	40.8	45.8	57.5	66.0	61.5	56.4	45.7	37.3	23.0	44.1
1954	28.4	34.4	32.9	45.5	53.4	58.4	66.3	60.6	56.3	46.2	35.5	20.6	44.9
1955	16.4	17.8	32.9	39.1	49.8	56.7	64.3	64.8	57.2	—	—	—	—

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	0.17	0.32	0.77	1.30	0.00	0.40	1.03	0.67	0.07	0.20	0.45	0.59	5.97
1927	0.49	0.80	0.95	0.35	0.00	0.63	1.42	1.21	3.07	1.10	0.30	0.68	11.00
1928	0.09	0.77	1.20#	0.20#	1.20#	0.00#	0.88	0.70	0.52	1.02	0.23	0.73	7.54
1929	0.73	0.35	0.58	0.83	0.37	0.03	3.97	1.52	1.35	0.10	0.00	0.06	9.89
1930	0.78	0.05	0.45	0.26	1.06	0.54	1.69	2.80	1.40	1.02	0.26	0.04	10.35
1931	0.31	0.80	0.32	0.60	1.17	0.41	1.04	1.16	0.27	0.99	0.49	0.38	7.94
1932	0.50#	1.05	0.28	0.55	0.43	0.86	2.71	1.88	0.30	0.36	0.00	0.78	9.70
1933	1.16	0.09	0.07	0.23	0.42	0.19	2.26	1.90	0.52	0.22	0.57	0.56	8.19
1934	0.38	0.47	0.40	0.24	0.67	0.35	1.35	2.28	0.37	0.26	0.41	0.48	7.66
1935	0.18	0.50	0.49	1.15	1.05	T	1.00	2.47	0.17	T	0.29	0.75	8.05
1936	0.13	0.86	0.15	T	T	0.58	2.62	1.17	1.27	2.00#	0.07	1.17	10.02
1937	0.60	0.04	1.36	0.03	1.03	0.11	1.52	1.27	1.42	0.44	0.10	0.53	8.45
1938	1.07	0.62	2.62	0.33	1.45	0.49	1.10	2.75	0.70	0.46	0.85	0.18	12.62
1939	0.92	0.56	1.37	0.39	0.65	0.08	2.10	0.69	4.59	0.49	0.12	0.09	12.05
1940	0.58	0.68	0.26	0.45	0.02	1.15	0.28	0.95	4.59	1.23	0.05	1.16	11.40
1941	0.21	0.43	0.74	2.22	1.46	0.69	2.35	0.29	0.78	3.13	0.79	0.76	13.85
1942	0.21	0.30	0.30	0.84	0.00	0.00	1.35	0.84	0.17	0.50	0.60	0.33	5.44
1943	0.58	0.42	0.91	0.53	0.29	0.07	0.95	2.40	0.58	1.38	0.24	0.93	9.28
1944	1.01	0.72	0.87	1.07	0.59	0.80	0.63	0.70	0.22	0.29	0.48	0.23	7.61
1945	0.23	0.15	0.98	1.25	0.02	0.20	0.79	1.25	T	1.25	0.19	0.35	6.66
1946	0.80	0.09	1.13	0.53	0.39	0.00	1.81	1.86	0.53	3.59	1.17	0.28	12.18
1947	0.33	0.29	0.12	1.14	0.75#	0.35#	0.37	4.42	0.04	1.30	0.15	1.44	10.77
1948	0.25	2.17	1.15	0.92	0.00	1.76	0.40	1.68	0.00	1.40	T	0.82	10.55
1949	1.44	0.85	1.85	0.18	0.46	2.85#	0.07	0.15#	0.50	0.41	0.03	1.98	10.77
1950	0.27	0.15	0.60#	0.25#	0.26	0.00	3.00	0.67	0.39	0.00	0.40	0.39	6.38
1951	0.19	0.29	0.32	0.82	0.96	0.08	1.30	1.65	0.50	0.90	0.71	0.80	8.52
1952	1.29	0.24	0.96	0.63	0.44	0.98	2.05	1.40	1.05	0.00	0.75	0.55	10.34
1953	0.02	T	0.28	0.33	0.15	0.27	2.86	1.28	T	0.56	0.45	0.26	6.46
1954	0.57	0.26	1.13	0.18	0.56	0.85	2.00	0.57	1.31	0.07	0.20	0.74	8.44
1955	0.81	0.61	0.03	0.12	0.18	0.06	1.55	3.26	T	0.00	0.70	0.49	7.81

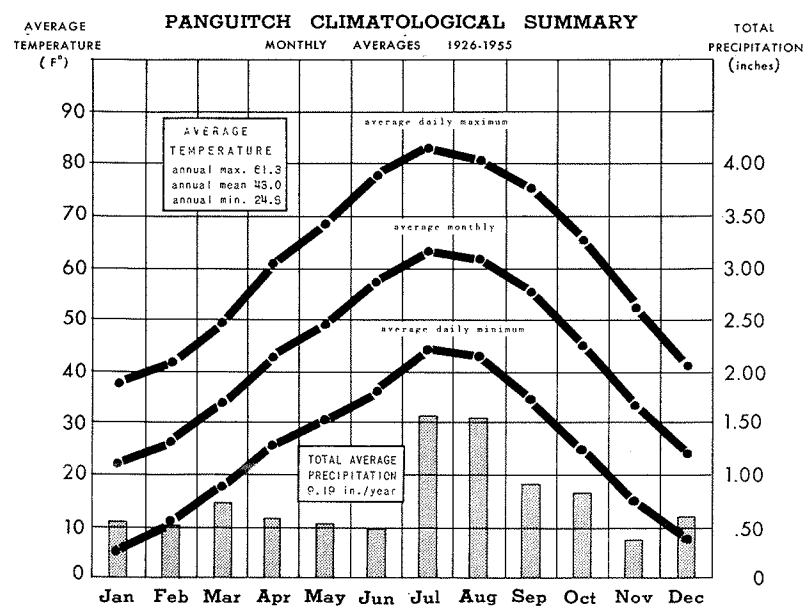
Interpolated

STATION HISTORY - PANGUITCH, UTAH

Weather observations at Panguitch date back to May 1904 when official precipitation measurements were first begun in the city. Daily readings of maximum and minimum temperatures were started in November 1911, and both temperature and precipitation data have been recorded since that date.

The weather station has moved frequently during its history, having been at 22 different sites in all. The equipment has been located within the city limits during most of the period of record, and the records at the various locations in Panguitch are considered compatible.* For a short period in 1920 the equipment was located at an elevation of 6700 feet at Latitude 37° 27' (1-1/2 miles southwest of the Panguitch Post Office); and from 1921 to September 1936 the station was situated 3 miles north-northwest of the Post Office (Latitude 37° 52', Longitude 112° 26', elevation 6700 feet).

There were several breaks in the record, particularly during the early history. However, there is only a small amount of missing data for the period covered by this summary (1926-1955).

The U.S. Forest Service is presently the cooperative weather observer at Panguitch and the contribution that this agency is making to a knowledge of the climate of the area is certainly appreciated.

* During the period July 1, 1947 to May 30, 1949 the winter-time precipitation record was in error due to inaccurate measurements.