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 38° 58'
LONGITUDE 112° 20'
ELEV. (GROUND) 5,250 Feet

CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR PERIOD 1926 - 1955

STATION
FILLMORE, UTAH

Month	Temperature (°F) Means: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	Mean degree days Base 65°	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	32° and below	Min.: 32° and below	0° and below	Month
(a)	30	30	30	30		30		#	30	30		30	30		30		30	30	30	30	30	
Jan.	39.6	17.0	28.3	65+	1953	-23	1937	1138	1.34	1.90	1937	16.0	42.0	1932	22.0	1937	4	0	7	30	3	Jan.
Feb.	45.4	22.1	33.8	72	1951	-21	1933	874	1.51	1.58	1935	13.9	34.5	1955	16.0	1955	4	0	3	25	1	Feb.
Mar.	54.1	28.9	41.5	78	1943	8	1952	729	1.85	2.32	1940	13.2	37.0	1945	23.0	1940	5	0	*	21	0	Mar.
Apr.	65.0	37.0	51.0	88	1943	13	1945	420	1.34	1.35	1944	4.4	20.0	1945	9.0	1938	3	0	0	9	0	Apr.
May	74.3	44.2	59.3	94	1927	24	1937	215	1.31	1.58	1947	1.9	23.0	1933	12.0	1933	3	1	0	3	0	May
June	84.4	52.4	68.4	103	1926	31	1954	60	0.81	1.52	1936	0	0		0		2	10	0	*	0	June
July	93.2	61.3	77.3	107	1937+	41	1936	0	0.83	1.09	1936	0	0		0		2	24	0	0	0	July
Aug.	91.0	59.8	75.4	105	1933	38	1932	0	0.95	1.20	1947	0	0		0		3	20	0	0	0	Aug.
Sept.	82.8	50.8	66.8	99	1934	25	1926	40	0.57	1.07	1929	0	0		0		2	6	0	1	0	Sept.
Oct.	70.0	39.4	54.7	89	1954	15	1935	330	1.12	1.23	1946	1.0	10.0	1929	7.0	1929	3	0	0	6	0	Oct.
Nov.	53.4	27.3	40.4	79	1934	- 3	1931	738	1.23	1.23	1940	8.9	28.0	1947	16.0	1941	3	0	1	22	*	Nov.
Dec.	42.3	20.5	31.4	70	1939	-19	1932	1042	1.24	1.04	1936	12.0	40.0	1949+	13.0	1931	3	0	5	28	1	Dec.
Year	66.3	38.4	52.4	107	July 1937+	-23	Jan. 1937	5586	14.10	2.32	March 1940	71.3	42.0	Jan. 1932	23.0	March 1940	37	61	16	145	5	Year

Totals estimated from monthly mean temperature using Weather Bureau formula.

(a) Average length of record, years.

+ Also on earlier dates, months or years

T Trace, an amount too small to measure.

* Less than one half.

CLIMATE OF FILLMORE, UTAH

Fillmore is located at the eastern edge of a broad, gently sloping valley in central Utah, at an elevation of 5250 feet above sea level. Chalk Creek, a small stream which heads in the nearby mountains, skirts the eastern edge of the city. Mountains or low hills are in all directions except the northwest quadrant. The Pavant Mountains, a north-south range with several peaks rising to above 10,000 feet MSL, are located about ten miles to the east. The proximity of these mountains has a marked influence on the climate of the area. Much of the precipitation received is associated with storms moving through the region from a westerly direction during the fall, winter, and spring seasons, coupled with the forced lifting of air over the Pavant Mountains.

The Rocky Mountains are usually effective in preventing prolonged periods with extremely low temperatures since this range acts as a barrier to continental air masses approaching the area. Of lesser importance to the climate are the Tushar Mountains, rising to over 12,000 feet, about 35 miles to the south; and the Mineral Mountains, extending to a maximum elevation of 9616 feet, approximately 45 miles to the southwest. These latter ranges shelter the valley somewhat from storms associated with southerly or southwesterly winds.

Fillmore has a semi-arid climate with four well-defined seasons. Summers are characterized by hot dry weather but the high temperatures are not oppressive since the relative humidity is generally low. Summer nights are cool, with most minimum readings in the 50's or lower 60's.

Winters are cold but usually not severe. The average daily temperature range during this season is 23°, from night-time lows of about 20° to 43° during the day. Temperatures below zero occur, on the average, in three of every four years but temperatures colder than 15° below zero are rare. Snowfall is moderately heavy, averaging over 70 inches annually, and as much as 120 inches has been reported during an extreme season.

Precipitation is rather evenly distributed during the period October through May when storms from the Pacific Ocean frequent the region. Thunderstorms account for most of the precipitation during the remainder of the year. Winds are generally light. The very strong winds that do occur are usually associated with low pressure storm systems or with local thundershowers. The growing season, or freeze-free period, averages about five months in length, extending from early May to early October. The principal crops in the area are hay and small grains.

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 10	155
28°	April 21	October 20	182
24°	April 5	October 31	209
20°	March 24	November 12	233
16°	March 11	November 22	256

Extremes of Temperature and Precipitation which have occurred prior to 1926, or during 1956, and which exceed those appearing in the table include:

Maximum Temperature:

68° in January 1956
106° in June 1918

Minimum Temperature:

-1° in March 1922
10° in April 1922+
34° in July 1921
-20° in December 1924

Greatest Daily Precipitation

1.66 inches in April 1906
1.73 inches in May 1901
1.39 inches in July 1910
2.12 inches in September 1905
2.00 inches in October 1908
1.60 inches in November 1906
1.30 inches in December 1922

Greatest and least monthly precipitation totals for the full period of record are as follows: The first column contains median precipitation values by months for the 30 year period 1926-1955. The median value is such that more precipitation was recorded half of the time, and less the other half.

Month	Median	Greatest	Year	Least	Year
January	1.38	3.11	1937	T	1919
February	1.40	3.64	1955	0.16	1896
March	1.90	5.00	1899	0.15	1900
April	1.31	4.38	1906	0.18	1930
May	1.02	4.44	1898	T	1940+
June	0.63	4.48	1936	0	1924+
July	0.63	4.14	1936	T	1900
August	0.72	3.62	1945	0.02	1940
September	0.32	2.81	1905	0	1901+
October	0.74	4.85	1946	0	1952+
November	1.19	3.30	1919	0	1904+
December	1.14	3.27	1920	0.03	1900
Annual	14.00	21.28	1906	6.72	1934

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	27.8	39.3	43.6	53.8	62.0	72.4	75.1	75.7	65.2	55.5	45.8	27.6	53.6
1927	32.0	38.4	41.2	49.6	57.8	70.6	78.8	73.2	66.0	55.0	44.9	25.3	52.7
1928	28.6	34.0	45.1	48.4	63.0	67.2	76.9	75.8	68.3	54.4	39.8	25.4	52.2
1929	27.0	26.3	40.6	46.2	58.3	67.6	78.0	75.8	64.0	55.0	37.2	38.2	51.2
1930	23.3	40.0	42.5	56.7	55.4	70.2	77.2	72.9	64.4	49.4	32.8	18.2	50.2
1931	25.2	34.6	41.0	53.4	59.4	72.9	81.4	77.5	66.4	56.4	35.6	25.0	52.4
1932	21.9	34.0	40.8	50.5	59.8	68.6	76.9	76.4	66.8	51.6	43.8	21.9	51.1
1933	27.7	22.6	41.8	46.4	53.2	74.8	80.6	75.5	70.4	59.0	42.8	38.5	52.8
1934	33.4	42.6	50.8	57.8	67.4	68.8	80.8	79.4	62.2	56.0	44.2	31.8	56.3
1935	33.7	37.2	39.6	50.4	54.6	71.0	78.3	76.6	69.6	53.2	37.7	30.6	52.7
1936	31.6	36.3	42.0	54.4	63.0	70.1	75.6	74.4	64.3	52.4	37.7	33.2	52.9
1937	13.4	32.7	42.2	47.0	62.6	68.0	77.8	81.0	70.7	55.8	44.6	34.8	52.6
1938	--	32.2	41.6	52.0	57.2	70.7	74.8	74.7	70.1	55.4	33.0	35.2	--
1939	32.0	25.9	44.4	54.9	62.0	66.7	77.0	76.1	65.5	53.7	45.4	40.4	53.7
1940	33.9	38.2	44.6	52.2	64.6	73.2	78.4	78.0	65.6	57.6	36.7	32.6	54.6
1941	32.1	38.6	42.4	44.4	59.6	66.6	76.2	72.1	61.2	50.2	39.8	34.5	51.5
1942	28.8	30.0	38.6	50.7	55.8	67.5	79.2	76.2	67.6	56.4	41.0	35.8	52.3
1943	32.1	36.0	43.1	57.6	58.2	65.4	77.0	75.4	69.7	56.0	42.6	33.7	53.9
1944	24.7	30.5	37.0	45.8	59.4	63.4	76.8	75.2	66.6	57.6	38.1	31.9	50.6
1945	33.6	36.2	38.9	45.2	58.6	62.4	76.4	73.2	63.9	56.4	42.4	31.8	51.6
1946	26.7	33.6	43.0	55.3	58.0	71.3	77.6	76.4	66.0	48.0	39.4	37.9	52.8
1947	23.9	38.8	46.1	48.7	63.0	64.7	77.0	74.6	69.0	56.8	35.2	32.8	52.6
1948	32.9	33.6	34.5	51.0	61.0#	68.4	76.6	75.4	68.4	54.4	36.4	27.9	51.7
1949	11.7	23.1	40.3	53.5	58.4	65.8	76.1	74.1	67.1	48.0	45.7	28.4	49.3
1950	26.6	35.2	42.4	51.5	56.4	67.9	74.3	74.5	65.3	59.5	46.2	33.1	52.7
1951	28.9	36.6	39.5	51.4	57.5	66.2	76.9	73.5	67.3	52.7	38.1	28.1	51.4
1952	27.8	31.9	35.3	50.9	60.9	68.5	75.0	76.2	69.4	60.4	35.0	32.5	52.0
1953	40.5	34.3	44.4	48.9	52.1	68.4	77.6	75.2	70.2	54.1	45.2	28.6	53.3
1954	33.7	35.3	39.0	53.6	61.8	66.5	78.6	73.3	66.2	54.8	44.1	31.3	53.2
1955	24.8	24.1	38.1	47.0	57.1	66.1	74.7	75.0	66.0	55.2	38.8	35.7	50.3
1956	38.5	27.9	43.1	49.9	60.1	71.7	75.8	72.5	69.4	54.0	36.1	31.4	52.5
1957	28.0	38.8	43.4	47.3	54.8	67.4	75.1	75.3	65.9	51.8	34.7	36.6	51.6

Interpolated

Total Precipitation (Inches)

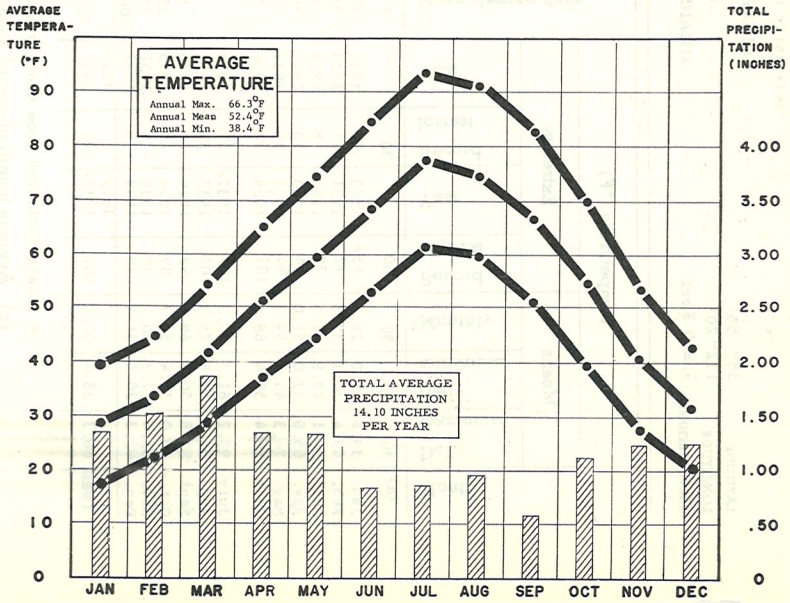
Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	0.82	1.50	0.68	0.86	1.41	0.03	0.68	0.73	0.44	0.14	0.61	1.60	9.50
1927	1.55	1.41	3.29	1.54	1.03	0.76	0.97	0.64	0.56	2.10	1.09	0.95	15.89
1928	0.51	1.88	1.85	0.71	0.70	0.62	0.43	0.32	0.21	0.99	2.14	0.50	10.86
1929	0.77	2.15	2.63	2.16	0.29	0.63	1.40	0.70	1.55	0.96	0.22	0.29	13.75
1930	2.12	1.37	1.23	0.18	2.74	0.42	1.73	3.21	1.16	0.75	1.39	0.19	16.49
1931	0.10	1.77	1.48	1.09	0.54	0.77	0.05	0.17	0.30	0.30	2.24	1.21	10.02
1932	2.36	1.23	2.11	1.36	0.34	0.88	1.54	1.70	0.02	0.97	0.31	1.59	14.41
1933	1.34	0.83	1.61	1.81	4.04	0.11	0.57	0.80	0.02	0.40	0.16	1.18	12.87
1934	1.00	1.46	0.32	0.86	T	0.17	0.23	0.11	0.05	0.24	1.58	0.70	6.72
1935	0.49	2.45	2.27	2.06	3.74	T	0.55	0.68	0.33	0.10	0.32	1.25	14.24
1936	1.01	2.07	1.95	0.67	0.29	4.48	4.14	0.96	0.03	1.73	0.86	2.53	20.72
1937	3.11	0.90	1.76	0.33	1.45	0.21	0.78	0.20	1.72	0.62	0.26	2.09	13.43
1938	0.59	1.32	2.33	1.28	2.47	0.31	0.37	0.83	0.18	0.79	1.71	0.90	13.08
1939	1.02	1.38	0.85	0.46	1.48	0.89	0.10	0.44	2.32	1.24	0.10	0.31	10.59
1940	2.52	2.51	3.48	1.33	T	0.46	0.21	0.02	1.84	0.73	1.86	1.48	16.44
1941	1.48	1.03	2.13	2.10	1.87	0.75	0.28	0.77	1.15	4.34	1.30	2.06	19.26
1942	0.28	0.79	1.26	1.79	0.80	0.08	0.42	1.08	0.20	0.28	2.65	0.67	10.30
1943	0.52	1.05	1.10	0.19	0.81	1.87	0.86	1.30	0.31	1.58	0.63	0.72	10.94
1944	2.75	1.62	2.23	3.46	0.81	1.33	0.04	0.15	0.10	0.59	1.83	0.37	15.28
1945	0.74	1.60	3.89	2.12	1.50	2.51	0.14	3.62	1.22	0.49	1.28	1.12	20.23
1946	1.45	0.50	2.30	0.92	3.00	T	1.22	1.75	0.39	4.85	2.69	1.38	20.45
1947	1.58	0.68	0.56	2.27	2.14	2.74	0.22	2.27	0.13	3.01	2.91	1.48	19.99
1948	0.58	2.20	2.13	1.29	0.04	1.58	0.83	0.64	0.05	0.25	0.32	2.45	12.36
1949	1.66	1.02	1.98	0.40	1.25	0.86	0.71	0.50	0.65	1.50	0.28	2.96	13.77
1950	1.84	0.83	0.76	0.67	0.90	0.02	1.85	0.32	0.34	0.57	0.53	0.91	9.54
1951	1.07	0.83	1.82	2.03	1.33	0.21	0.48	1.24	0.25	1.67	1.62	2.70	15.25
1952	1.41	1.91	3.75	1.63	0.82	0.75	0.93	1.26	0.01	0.00	1.75	0.76	14.98
1953	1.61	2.93	0.68	2.23	1.00	T	1.89	0.48	T	0.65	0.83	0.87	13.17
1954	2.41	0.57	2.49	1.10	1.63	0.15	0.43	0.24	1.01	1.08	2.32	0.97	14.40
1955	1.48	3.64	0.62	1.32	0.81	0.77	0.97	1.24	0.47	0.70	1.05	1.15	14.22
1956	2.34	2.42	0.05#	2.18	0.65	0.19	T	0.03	0.17	1.30	0.31	0.67	10.31
1957	3.13	0.49	1.93	4.49	2.53	0.79	0.84	0.48	0.02	0.91	1.16	0.75	17.52

#Interpolated

STATION HISTORY - FILLMORE, UTAH

Earliest weather observations at Fillmore date back to March 1893. Precipitation and maximum and minimum temperatures have been recorded from the beginning of record. However, prior to September 1917 the thermometers were exposed in a home-made instrument shelter and the temperature readings appear unreliable.

Mr. J. J. Starley recorded the weather data at his residence two blocks west of the Post Office from the beginning of the station until January 1938, a period of 45 years. The station was then moved to the residence of his son, Wells P. Starley, one and one-half blocks north of the Post Office; and the station has remained at this location, 185 North Main Street, ever since.

The recording of weather observations has become a tradition with the Starley family. A deserving tribute is certainly due them for the valuable contribution that has been made to the climatic records of the Fillmore community.

Merle J. Brown, State Climatologist
WBAS, Salt Lake City, Utah