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 41° 14'
LONGITUDE 112° 2'
ELEV. (GROUND) 4,280 Feet

CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR PERIOD OF RECORD 1926-1955

STATION
OGDEN, 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.	35.6	16.0	25.8	60	1953	-26	1937	1215	1.73	1.38	1953	16.7	46.5	1937	14.0	1937	5	0	11	29	4	Jan.
Feb.	41.6	21.8	31.7	64	1953	-21	1933	932	1.54	1.02	1937	7.6	19.5	1939	9.0	1938	5	0	4	25	1	Feb.
Mar.	50.9	28.9	39.9	75	1928	4	1945	778	1.65	1.87	1949	5.6	19.0	1929	12.0	1929	5	0	*	23	0	Mar.
Apr.	62.7	37.3	50.0	85	1936	5	1936	450	2.16	1.50	1932	1.3	9.0	1929	6.0	1948	5	0	0	9	0	Apr.
May	72.1	44.4	58.3	92	1954	28	1954+	240	1.60	1.95	1926	*	1.0	1927	1.0	1927	4	*	0	1	0	May
June	81.1	51.1	66.1	100	1940	32	1954	100	1.20	1.23	1952	T	T	1949	T	1949	3	6	0	0	0	June
July	91.4	59.3	75.4	106	1931	39	1954	0	0.56	0.78	1954	0	T	1950	0		2	22	0	0	0	July
Aug.	89.2	57.4	73.3	102	1937	35	1944+	0	0.79	1.97	1951	0	0		0		2	17	0	0	0	Aug.
Sept.	79.7	47.8	63.8	98	1942	24	1926	95	1.05	1.71	1926	0	0		0		2	3	0	*	0	Sept.
Oct.	67.2	38.3	52.8	85	1943	20	1932	395	1.62	1.85	1939	0.4	3	1943+	3.0	1943	3	0	0	6	0	Oct.
Nov.	49.9	27.9	38.9	73	1931	-14	1955	783	1.67	1.45	1954	2.9	17.0	1930	6.0	1945	4	0	1	21	*	Nov.
Dec.	39.5	21.1	30.3	62	1939	-15	1932	1076	1.66	0.91	1936	8.6	21.5	1932	6.0	1935	5	0	6	28	1	Dec.
Year	63.4	37.6	50.5	106	July 1931	-26	Jan. 1937	6064	17.23	1.97	Aug. 1951	43.1	46.5	Jan. 1937	14.0	Jan. 1937	45	48	22	142	6	Year

Estimated from monthly means using Weather Bureau Formula.
(a) Average length of record, years.
T Trace, an amount too small to measure.
+ Also on later dates, months or years.
* Less than one half.

CLIMATE OF OGDEN, UTAH

Ogden, county seat of Weber County, is located in northern Utah at the base of the lofty Wasatch Mountains. Great Salt Lake, the largest body of water over western United States, lies about 10 miles to the west. The Weber River, one of the larger streams in Utah, skirts the western edge of the city while the Ogden River emerges from the mountains northeast of Ogden and flows through the northern portion of the city.

At an elevation of 4,280 feet above sea level, Ogden is located on an area of flat land which extends to the west and south. To the east mountains rise abruptly to more than five thousand feet above the valley floor. Ogden Peak, only five miles distant, extends to 9,575 feet MSL; and five other peaks of the Wasatch Range, all above 9,000 feet, are within a distance of 20 miles.

The proximity of the Wasatch Range has a marked influence on the climate of the area. Because of these mountains, rain and snow are substantially heavier along the eastern limits of the city than a few miles to the west. Two other important physiographic features affecting the climate are (1) Great Salt Lake which never freezes over due to the high salt content, thus providing a moderating effect on temperatures throughout the year, and (2) Rocky Mountains which are usually effective in preventing extended periods of extremely cold weather at Ogden since they act as a barrier to continental arctic air masses.

Ogden has a semi-arid climate with four well defined seasons. Summers are characterized by hot, dry weather; but low humidity during this season makes the high temperatures more bearable than in more humid climates. The average daily temperature range during the summer months is about 31 degrees with daily high readings generally in the 80's or low 90's, and nighttime minimums in the 50's. Even after the hottest days, nights are usually cool.

Winters are cold but usually not severe. In about one of every three years temperatures colder than 10 degrees below zero can be expected. Snowfall is generally light with only about one-fourth the annual precipitation falling in that form. Precipitation is rather evenly distributed from October through May when Pacific storms are moving through the area more frequently than at other times of the year. The driest period is in July and August, the only months with an average precipitation of less than one inch. The wettest period usually occurs during April.

Wind velocities are generally light to moderate, ranging normally below 20 miles an hour. The strong damaging winds that do occur are usually associated with easterly winds blowing out of canyons of the Wasatch Mountains or with local thundershowers. Hail storms occasionally cause some damage to crops and property during the spring and summer months, although the hail is normally small.

The growing season, or freeze-free period, averages slightly over five months in length from early May to mid-October. The principal crops in the area are small grains, sugar beets, hay, and fruit and canning crops.

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 7	October 14	160
28°	April 18	October 25	190
24°	April 2	November 5	217
20°	March 18	November 15	242
16°	March 6	November 25	264

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

Minimum Temperature:	Greatest Daily Precipitation
-19 in December 1924	1.23 inches in December 1925

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	1.42	3.73	1940	0.09	1945
February	1.26	3.61	1936	0.31	1954
March	1.35	4.36	1938	0.20	1955
April	1.83	5.05	1941	0.40	1934
May	1.53	3.34	1935	0.01	1940
June	0.94	4.36	1945	T	1933
July	0.47	1.37	1936	0	1948
August	0.51	2.77	1930	0	1944
September	0.75	3.89	1940	0	1943+
October	1.42	4.21	1946	0	1952
November	1.62	3.77	1927	0.01	1939
December	1.62	4.28	1924	0.48	1929
Annual	17.00	25.25	1941	11.24	1933

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	26.2	36.4	42.6	53.8	58.9	69.9	75.5	73.0	59.2	52.6	43.8	27.6	51.6
1927	29.0	35.4	40.6	48.1	54.0	68.0	76.0	71.5	62.4	53.1	45.4	25.3#	50.7
1928	26.7#	33.8	43.8	47.2	61.6	63.7	75.3	71.3	64.3	51.4	39.4	23.8	50.2
1929	21.7	23.7	37.7	45.6	56.7	65.2	76.2	75.2	59.4	52.8	35.5	35.6	48.8
1930	19.3	37.0	41.6	55.4	55.1	65.8	75.6	72.7	62.7	48.2	33.1	17.3	48.6
1931	18.2	31.8	39.8	50.2	57.8	71.5	80.0	77.0	64.2	54.2	34.4	23.4	50.2
1932	18.0	27.2	37.6	49.1	58.4	65.9	73.9	72.3	65.1	49.8	42.2	19.8	48.3
1933	25.0	18.6	37.0	46.5	53.6	73.6	79.2	73.6	65.4	56.7	40.4	36.6	50.5
1934	33.9	41.1	49.0	56.8	66.7	68.3	78.0	76.0	62.2	54.6	42.4	30.8	55.0
1935	31.4	34.7	40.1	50.5	55.4	69.1	77.0	75.2	67.4	51.2	34.8	30.1	51.6
1936	27.0	31.8	39.8	52.5	61.8	70.0	77.4	74.2	62.4	52.7	36.0	33.1	51.6
1937	13.2	27.9	39.4	45.7	60.8	64.4	76.0	75.4	67.4	54.6	43.2	35.0	50.2
1938	35.3	37.1	40.9	50.8	56.4	69.3	73.0	73.4	68.4	54.2	32.6#	33.8	52.1
1939	29.4	23.8	40.5	53.0	61.2	64.6	75.4	73.4	63.0	52.6	41.8	34.7	51.1
1940	29.4	37.8	44.6	51.2	63.2	71.0	76.3	75.1	64.6	54.4	35.8	32.2	53.0
1941	28.8	36.5	43.4	46.0	60.0	64.0	72.9	71.2	58.5	50.0	40.1	33.6	50.4
1942	20.1	24.3	34.8	51.5	53.8	63.8	79.3	74.0	64.4	52.8	40.4	32.2	49.3
1943	32.0	34.6	39.8	55.2	56.6	64.1	74.0	74.2	68.8	54.6	40.2	31.9	52.0
1944	19.4	29.5	37.2	46.4	59.0#	60.9	71.2	69.8	64.0#	54.3	38.0	29.5	48.3
1945	31.6	35.0	37.8	44.6	56.6	56.2	72.3	68.7	56.7	52.1	35.8	28.9	48.3
1946	25.8	32.4	42.0	53.0	55.7	66.3	75.6	74.2	59.7	45.6	36.8	35.6	50.2
1947	20.0	35.2	42.2	47.4	61.2	62.6	75.0	70.6	64.4	54.2	34.2	28.2	49.6
1948	28.4	30.5	35.2	49.4	58.5	67.2	74.0	73.4	64.6	52.4	35.1	24.9	49.5
1949	11.5	22.3	40.3	52.5	60.0	65.3	74.2	73.3	65.4	47.8	44.5	31.3	49.0
1950	27.4	35.2	40.1	48.2	53.8	65.3	72.6#	72.6	63.0	57.2	41.7	35.6	51.1
1951	27.1	35.2	37.4	51.7	58.8	63.5	74.9	72.0	63.5	50.8	37.5	27.8	50.1
1952	27.4	27.1	33.4	52.3	60.5	68.2	73.7	74.6	67.4	56.7	35.4	31.3	50.6
1953	38.6	36.7	44.0	47.2	53.8	66.3	76.7	74.8	66.8	53.6	45.2	30.1	52.8
1954	33.4	35.5	39.9	53.6	61.0	65.0	76.6	71.2	64.3	54.3	45.9	34.0	52.9
1955	19.7	23.4	34.7	44.3	57.4	64.4	73.7	75.0	63.7	53.1	35.0	35.1	48.3
1956	34.1	25.3	40.1	49.6	59.3	68.1	74.9	70.4	64.7	50.6	34.5	29.4	50.1
1957	24.3	38.9	42.8	47.4	57.1	65.4	75.0	75.1	63.1	52.0	34.3	33.2	50.7

#Interpolated

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	1.41	2.73	0.80	2.76	3.24	0.29	1.07	0.80	1.95	0.34	2.17	1.44	19.00
1927	0.86	2.81	2.33	1.72	2.13	0.40	0.35	0.14	2.40	1.46	3.77	0.84	19.21
1928	0.83	0.51	2.36	0.66	1.06	0.81	0.27	0.06	0.63	1.71	1.53	0.84	11.27
1929	3.27	2.20	3.00	3.57	0.61	1.19	0.41	0.20	3.58	0.54	0.24	0.48	19.29
1930	2.80	1.73	1.19	2.07	2.41	0.43	0.80	2.77	2.59	2.74	1.40	0.57	21.50
1931	0.85	0.78	1.16	0.96	2.08	0.01	0.52	0.17	0.81	1.37	1.69	2.77	13.17
1932	2.18	2.14	1.37	4.25	0.52	0.87	0.81	1.40	0.00	0.02	0.83	1.69	16.08
1933	3.17	0.91	0.88	1.83	2.34	T	T	0.21	0.49	0.26	0.04	1.11	11.24
1934	1.09	1.95	0.55	0.40	0.07	1.22	0.93	1.15	0.83	0.94	3.61	2.35	15.09
1935	0.37	1.14	1.64	2.39	3.34	0.05	0.01	0.35	1.12	0.61	1.60	1.35	13.97
1936	2.82	3.61	2.33	1.08	1.12	1.78	1.37	1.05	0.26	3.18	0.78	2.72	22.10
1937	2.84	3.19	1.95	1.69	1.22	0.04	1.19	0.31	0.52	1.51	1.31	2.12	17.89
1938	0.90	1.76	4.36	3.19	1.94	0.51	0.64	0.39	0.29	3.27	1.64	2.00	20.89
1939	2.13	1.42	1.16	2.72	1.51	1.41	0.30	0.29	1.77	2.73	0.01	0.80	16.25
1940	3.73	2.68	1.33	2.32	0.01	0.83	0.36	0.02	3.89	1.81	1.00	3.05	21.03
1941	2.01	1.93	2.43	5.05	1.14	1.45	1.19	1.06	1.03	3.23	1.78	2.95	25.25
1942	2.64	2.25	1.38	2.09	2.67	0.64	0.37	0.23	0.89	1.17	1.79	1.76	17.88
1943	0.65	0.77	1.05	1.79	1.05	3.03	0.99	0.87	0.00	3.29	0.17	1.64	15.30
1944	0.86	0.69	1.22	4.28	1.10#	3.81	0.35	0.00	0.60#	0.21	2.70	0.77	16.59
1945	0.09	2.95	2.13	0.73	1.29	4.36	0.60	2.59	0.30	1.35	3.07	3.38	22.84
1946	0.84	0.21	2.24	1.27	2.42	0.12	0.84	0.71	0.36	4.21	1.78	2.40	17.40
1947	1.12	1.10	1.53	1.81	1.55	2.37	0.01	2.54	1.90	2.06	1.65	1.02	18.66
1948	0.89	1.23	1.19	3.41	1.99	1.93	0.00	0.62	0.60	1.28	1.79	1.48	16.41
1949	2.11	0.63	3.13	1.83	3.29	1.78	0.29	0.71	0.69	3.88	1.33	1.62	21.29
1950	0.87	0.64	1.11	1.18	2.48	0.32	0.90	0.22	1.16	0.87	3.27	2.09	15.11
1951	1.43	1.08	0.74	3.74	1.60	0.08	0.73	2.68	0.13	1.58	2.51	2.08	18.38
1952	2.69	1.29	2.61	0.92	0.69	1.58	0.01	0.80	0.04	0.00	1.21	0.59	12.43
1953	3.38	0.36	0.84	3.38	1.71	1.01	0.39	0.25	0.12	0.97	0.73	0.95	14.09
1954	0.94	0.31	1.23	1.06	0.82	1.20	0.80	0.18	1.29	0.39	3.03	1.21	12.46
1955	2.00	1.23	0.20	0.69	0.60	2.35	0.35	0.87	1.32	1.56	1.59	1.61	14.37
1956	2.84	0.29	0.00	1.27	3.66	1.44	1.06	0.02	0.04	1.27	0.50	1.04	13.43
1957	0.73	1.56	1.85	3.35	5.06	1.23	0.23	0.52	0.48	0.85	1.73	1.30	18.89

#Interpolated

STATION HISTORY - OGDEN, UTAH

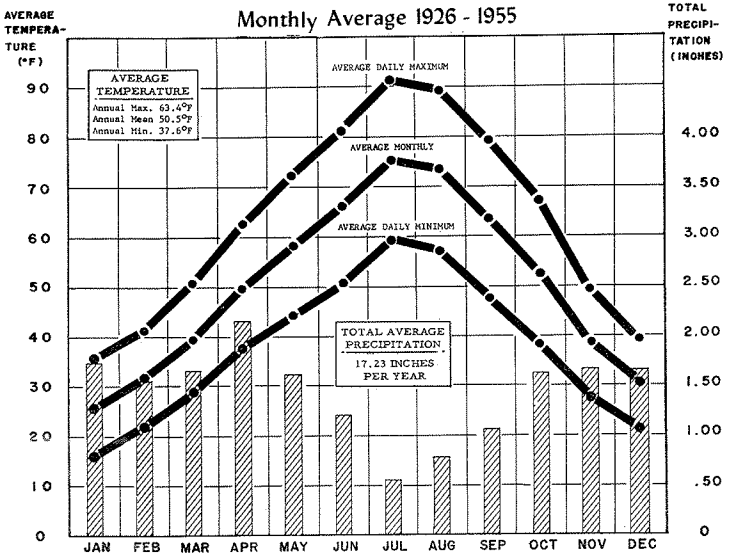
Earliest weather observations of maximum and minimum temperatures and precipitation at Ogden Sugar Factory (3 miles west of Ogden), date back to September 1924. The station has always been located on level ground at an elevation of 4,280 feet above sea level. The only move occurred in September 1942 when the equipment was relocated 140 feet south-southeast of the original location, but this move did not have any significant effect on the compatibility of the records.

In June 1953 a recording rain gage was added to the list of station instruments and has continued in operation to the present.

Employees of the sugar factory are to be commended for their excellent contribution to the weather records for the Ogden community.

At the present time there is an hourly aviation weather reporting station, operated by the Civil Aeronautics Administration, at the Ogden Municipal Airport, 2.5 miles south-southwest of the Ogden Post Office. Also, there is a cooperative weather station located at the Ogden Pioneer Power House, 2.0 miles northeast of Ogden. This latter station was established in January 1902 but was inoperative from January 1911 to May 1940.

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

OGDEN CLIMATOLOGICAL SUMMARY

Monthly Average 1926 - 1955