

LATITUDE 40° 55'
LONGITUDE 111° 24'
ELEV. (GROUND) 5550 FEET

CLIMATOLOGICAL SUMMARY

STATION

COALVILLE, UTAH

MEANS AND EXTREMES FOR PERIOD 1930 - 1955

Month	Temperature (°F)							Mean degree days Base 65°	Precipitation Totals (Inches)						Mean number of days						Month			
	Means			Extremes					Mean	Greatest daily	Year	Snow, Sleet			Precip. .10 inch or more	Temperatures								
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year					Mean	Maximum monthly	Year		Greatest daily	Year	90° and above	Max.			Min.		
																			32° and below	32° and below		0° and below	0° and below	
(a)	25	25	25	25	1932	-29	1937	1305	1.25	0.85	1955	16.3	37.0	1950	10.0	1955+	25	25	25	25	25			
Jan.	36.6	8.2	22.2	61	1932	-29	1937	1305	1.25	0.85	1955	16.3	37.0	1950	10.0	1955+	4	25	25	25	25	8	Jan.	
Feb.	41.0	13.7	27.1	61	1931	-29	1933	1052	1.23	1.15	1943	13.8	48.5	1936	13.0	1943	4	0	5	9	30	27	5	Feb.
Mar.	47.7	19.9	32.8	71	1943	-18	1948	967	1.57	0.92	1944	11.9	44.0	1932	10.0	1952	5	0	1	29	1	29	1	Mar.
Apr.	60.1	27.5	43.8	82	1949+	5	1936	636	1.19	1.30	1931	2.5	14.0	1931	11.0	1931	4	0	*	23	0	23	0	Apr.
May	69.0	33.3	51.2	87	1951	13	1946	435	1.29	1.51	1937	0.9	8.0	1950	8.0	1950	4	0	0	14	0	14	0	May
June	77.5	38.4	58.0	99	1954	25	1947	245	1.09	1.41	1941	T	T	1950+	T	1950+	3	2	0	4	0	4	0	June
July	87.2	45.1	66.2	101	1931	29	1932+	65	0.92	1.50	1937	0	0	0	0	0	3	13	0	*	0	0	0	July
Aug.	85.0	43.2	64.1	96	1949+	25	1932	65	1.18	1.76	1945	0	0	0	0	0	3	6	0	2	0	0	0	Aug.
Sept.	77.7	34.4	56.1	95	1950	16	1945	285	0.68	0.98	1944	T	T	1945+	T	1945+	2	1	0	14	0	14	0	Sept.
Oct.	65.9	27.2	46.5	85	1950	5	1935	570	1.16	1.24	1946	0.4	3.3	1942	3.3	1942	3	0	0	24	0	24	0	Oct.
Nov.	49.5	17.5	33.5	72	1949-	-17	1955	945	1.29	1.14	1951	7.1	26.1	1947	10.0	1931	4	0	2	28	2	28	2	Nov.
Dec.	39.3	12.5	25.9	68	1939	-40	1932	1212	1.18	0.97	1932	10.3	26.2	1932	9.5	1932	4	0	7	30	6	30	6	Dec.
Year	61.4	26.8	44.1	101	July 1931	-40	Dec. 1932	7782	14.03	1.76	Aug. 1945	63.2	48.5	Feb. 1936	13.0	Feb. 1943	43	22	24	225	22	22	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 COALVILLE, UTAH

Coalville is located in a rather narrow valley in the mountains of north-central Utah. To the west is the Wasatch Range, and to the east lie the Uintas, highest mountains in the State. The station is in the Weber Basin, and drainage is toward the north. Immediately to the west is the Weber River, one of the larger streams in Utah. Chalk Creek, an east-west brook, with headwaters in the Uinta Mountains, runs through the town and joins the Weber River just northwest of Coalville. A short distance down-stream from the junction of the streams lies the Echo Reservoir. This large man-made body of water no doubt has a modifying effect on temperatures at Coalville, especially during Spring and early Summer months when the reservoir is more nearly full than at other months of the year.

At an elevation of 5,550 feet, the station is situated in the gently sloping valley running north-northwest to south-southeast. The valley is approximately 20 miles in length, 1 to 2 miles in width. Coalville is almost completely surrounded by mountains. A short distance in every direction, except south, are mountain peaks rising to above eight or nine thousand feet.

Precipitation is rather evenly distributed throughout the year, averaging over an inch in every month except July and September. Snowfall is moderately heavy during the winter season with January ordinarily receiving the heaviest amount. Thunderstorms account for most of the rainfall during summer months.

Winters are quite cold and occasionally severe. Drainage of cold air from nearby mountains results in extremely low temperatures at times during the months of December, January and February. These low readings are usually associated with relatively dry air and very light winds, so that to inhabitants of the valley it does not seem as cold as the thermometer indicates.

Summers are delightfully cool. Maximum temperatures have reached 100 degrees or more only twice during the period of record. In July and August most high readings are in the 80's and lows in the 40's.

The growing season, or freeze-free period, is short, averaging only sixty-three days in length. Freezing temperatures have occurred in every month of the year. Haying, rancing and growing of grain crops are the principal farm activities. Potatoes and peas are grown to a limited extent.

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

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

Average Dates of Occurrences of Various Temperature Values:

Temperatures Equal to or Lower Than:	Average Dates of Occurrence Last in Spring	First in Fall	Length of Period
32°	June 22	August 24	63
28°	June 1	September 15	106
24°	May 7	September 25	141
20°	April 22	October 6	167
16°	April 6	October 12	189

Precipitation extremes from autographic records November 1940 - October 1949.

1 hour	1.18 inches in August 1945
2 hours	1.20 inches in August 1945
3 hours	1.20 inches in August 1945
6 hours	1.23 inches in August 1945
12 hours	1.36 inches in August 1945
24 hours	1.76 inches in August 1945

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
Jan.	1.27	2.97	1950	0.20	1931
Feb.	1.07	4.17	1936	0.19	1931
Mar.	1.43	3.73	1952	0.71	1931
Apr.	1.17	2.19	1935	0.14	1949
May	1.19	2.57	1947	0.06	1934
June	0.87	2.84	1947	0.04	1946
July	0.84	3.57	1937	0.09	1947
August	1.10	3.74	1936	0.00	1944
Sept.	0.70	2.01	1940	T	1951
Oct.	0.96	3.65	1946	0.00	1952
Nov.	1.32	2.61	1945	0.00	1939
Dec.	1.01	2.63	1955	0.29	1939
Annual	14.27	20.52	1936	8.62	1935

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1930	-	-	-	48.6	58.4	58.1	67.2	66.6	55.0	43.9	26.3	14.2	-
1931	19.8	30.8	34.4	44.3	50.7	62.0	67.8	64.8	55.8	47.8	27.1	17.8	43.6
1932	16.0	23.4	32.3	43.3	50.9	58.4	65.7	62.6	55.0	44.4	37.4	13.6	41.9
1933	22.3	15.4	32.6	39.8	46.4	62.2	69.0	61.9	57.4	48.3	35.9	32.1	43.6
1934	27.1	36.8	42.7	48.4	57.2	58.5	66.8	65.5	54.1	48.5	37.0	26.8	47.4
1935	27.6	32.8	33.7	44.2	48.3	59.6	66.3	65.2	57.0	44.1	31.2	23.1	44.4
1936	22.0	28.4	31.6	45.0	54.2	62.3	69.2	66.5	54.5	45.7	32.9	27.9	45.0
1937	12.6	25.0	33.4	41.4	53.8	58.6	68.0	66.1	58.4	48.4	38.4	31.8	44.7
1938	29.8	31.8	35.3	45.0	49.4	61.3	64.4	64.8	59.4	47.4	28.0	30.2	45.6
1939	27.2	19.2	36.9	47.2	53.4	57.6	65.3	63.4	57.0	46.0	37.5	32.2	45.2
1940	25.4	32.7	39.1	45.1	55.3	62.2	66.8	65.6	58.3	48.0	32.0	29.2	46.6
1941	26.6	33.2	38.2	41.0	53.0	57.0	65.4	64.6	52.1	43.8	36.3	29.2	45.0
1942	20.0	20.2	29.7	43.8	47.2	56.5	67.6	63.0	54.6	45.0	34.6	28.0	42.5
1943	24.6	26.0	31.0	48.9	48.9	56.0	65.5	65.6	56.9	46.9	34.8	24.8	44.2
1944	15.2	26.1	28.8	40.1	52.2	55.5	64.8	61.6	54.7	47.7	33.0	24.4	42.0
1945	24.6	29.0	32.0	38.0	51.4	51.0	65.2	64.0	51.4	47.3	28.4	20.1	41.9
1946	18.4	24.4	37.0	46.2	47.4	57.2	66.4	64.5	53.4	39.1	30.6	31.7	43.0
1947	18.6	30.2	36.2	41.2	52.8	53.8	63.9	63.1	56.0	47.6	26.5	22.2	42.7
1948	24.1	24.1	26.7	41.2	49.8	57.4	65.1	63.3	56.9	44.6	41.0	25.9	-
1949	-	-	-	-	48.2	53.9	62.6	60.6	55.9	50.4	38.5	33.7	44.6
1950	22.0	27.3	35.1	43.7	48.6	56.3	62.6	60.6	55.9	50.4	38.5	33.7	44.6
1951	23.0	32.1	32.8	44.2	52.0	55.1	65.5	63.2	55.7	46.5	29.2	22.4	43.5
1952	20.4	19.7	26.4	44.1	53.3	59.6	64.5	65.1	59.5	50.0	30.4	27.5	43.4
1953	34.6	34.9	38.4	40.5	46.4	59.1	69.1	64.0	58.5	47.9	39.8	24.3	46.1
1954	31.4	30.8	35.3	46.4	54.5	57.5	67.7	62.0	57.9	39.5	24.4	24.4	-
1955	17.4	22.5	31.8	39.3	55.9	55.9	63.9	64.3	55.0	48.0	31.3	30.5	42.6

HISTORY OF COALVILLE, UTAH

Climatological records from Coalville prior to 1930 are very fragmentary and are not included in this summary. Beginning in April 1930, observations from maximum and minimum thermometers and a standard 8 inch rain gauge were recorded by the airway observer, Mr. E. W. Wright. The station was located at 2nd East Street, between Center and First North. Other airway observers, assisting with the reports include F. E. Wright, E. H. Wright, Louise K. Wright, Fred E. Wright, et al. A recording rain gauge was added to the station on November 22, 1940. In April 1941, the six-hourly synoptic observation at 11:30 p. m. was used for the time of observation.

On June 18, 1945 the station was relocated 3 blocks south at the Clara J. Wright residence. Mr. Paul W. Sorenson, full-time Weather Bureau employee was placed in charge of the station. Hourly observations were taken and teletype service installed. The station was closed June 9, 1948.

The recording rain gauge remained at this location until October 28, 1949 but was unattended except during October and November 1948. In October 1949 it was moved four miles northwest to Echo Dam.

The climatological station was reestablished at the residence of Mr. C. B. Copley, one block west of the Post Office on March 15, 1949. Mr. Copley, an instructor in the local schools, has done a commendable job of keeping the weather records to the present time.

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1930	-	-	-	1.00	1.59	0.40	0.91	1.35	1.72	0.93	1.65	0.62	-
1931	0.20	0.19	0.71	1.78	1.18	0.10	0.63	0.87	0.60	0.99	1.88	0.82	9.95
1932	1.38	1.49	2.00	1.46	0.50	1.17	0.94	1.67	0.04	0.69	0.58	1.70	13.62
1933	1.18	0.88	1.29	1.19	1.88	0.07	0.50	0.24	0.29	0.20	0.18	0.83	8.73
1934	0.98	1.54	0.76	0.30	0.06	0.79	0.33	0.85	0.53	1.06	2.04	1.18	10.42
1935	0.28	0.32	1.27	2.19	2.26	0.11	0.21	0.46	0.37	0.23	0.40	0.52	8.62
1936	2.48	4.17	1.43	0.73	0.55	0.69	2.03	3.74	0.71	2.05	0.59	1.35	20.52
1937	1.99	2.48	0.93	0.86	2.20	0.82	3.57	6.02	1.58	1.30	1.05	0.97	18.37
1938	0.94	1.68	2.23	0.71	1.91	0.88	1.57	2.07	0.74	1.57	1.98	0.89	17.17
1939	0.57	1.40	0.87	0.93	1.19	1.02	0.45	0.63	0.71	0.79	0.00	0.29	8.85
1940	1.81	1.63	1.56	1.58	0.39	0.78	0.64	1.39	2.01	1.78	1.26	0.78	15.61
1941	0.49	1.17	0.89	1.35	1.50	2.48	0.83	0.73	0.54	2.43	1.37	1.71	15.49
1942	1.09	0.91	1.20	0.78	0.61	0.39	0.97	0.46	0.81	0.51	2.35	1.56	11.64
1943	1.35	1.64	1.53	1.15	0.76	2.24	0.67	1.47	0.09	2.10	0.14	0.50	13.64
1944	1.04	0.50	3.29	2.07	1.09	2.62	0.21	0.00	1.11	0.35	0.68	0.58	13.54
1945	0.38	2.34	1.48	1.30	0.73	2.46	0.38	2.87	0.68	1.15	2.61	1.35	17.73
1946	1.35	0.48	1.62	1.37	1.69	0.04	0.36	0.92	0.17	3.65	1.60	1.04	14.29
1947	1.07	0.61	1.41	1.71	2.57	2.84	0.09	1.49	0.64	1.10	1.27	0.98	15.78
1948	0.65	1.20	1.82	1.30	0.51	1.35	# 1.35	# 1.85	0.77	1.65	1.65	# 2.40	14.40
1949	1.40	0.85	1.55	0.14	1.93	1.67	0.38	1.11	0.47	2.78	0.87	1.56	14.71
1950	2.97	1.81	2.90	1.43	1.66	0.67	1.41	0.02	1.01	0.29	2.31	1.76	18.24
1951	1.83	0.58	1.37	1.74	1.23	0.86	1.03	1.46	T	1.70	2.18	2.27	16.25
1952	1.74	1.07	3.73	1.22	1.22	1.22	1.65	1.40	0.29	0.00	0.41	0.34	14.24
1953	1.30	0.34	1.35	0.87	2.47	0.46	0.74	1.35	0.03	0.69	0.86	0.93	11.39
1954	1.27	0.51	1.24	0.91	0.81	1.61	1.34	1.54	1.08	0.58	1.39	1.09	12.37
1955	1.45	0.95	0.91	0.80	1.03	0.65	1.54	1.09	1.07	0.59	2.20	1.63	14.91

COALVILLE CLIMATOLOGICAL SUMMARY
Monthly Averages 1930 - 1955

