U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
IN COOPERATION WITH THE ALPINE SUN
CLIMATOGRAPHY OF THE UNITED STATES NO. 20 – 4.

CLIMATOLOGICAL SUMMARY

LATITUDE 32° 50' N
LONGITUDE 116° 47' W
ELEV. (GROUND) 1735 feet.

STATION Alpine, California.

MEANS AND EXTREMES FOR PERIOD 1935-1945, 1952-1959

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. .01 inch or more	Temperatures Max.: 90° and above	32° and below	Min.: 32° and below	0° and below	Month
(a)	17	17	17	17		17		17	18	18	18	18	18		18		18	17	17	17	17	
Jan.	63.1	37.2	50.2	86	1959	18	1937	460	3.09	3.03	1943	T	T	1937	T	1937	6	0	0	8	0	Jan.
Feb.	63.3	37.5	50.4	85	1957+	20	1939	410	4.29	6.03	1937	T	T	1944+	T	1944+	6	0	0	7	0	Feb.
Mar.	66.3	39.0	52.7	95	1953	26	1942+	380	3.78	2.50	1943	0	0		0		5	*	0	5	0	Mar.
Apr.	69.5	42.3	55.9	95	1958	28	1942	270	2.13	2.46	1940	T	T	1938	T	1938	4	*	0	1	0	Apr.
May	75.1	45.8	60.5	102	1956	32	1942	160	0.58	1.15	1955	0	0		0		2	1	0	*	0	May
Jun.	82.4	48.7	65.6	105	1957	33	1944	50	0.12	0.53	1937	0	0		0		*	6	0	0	0	Jun.
Jul.	90.7	55.6	73.2	109	1957	37	1940	0	0.07	0.21	1937	0	0		0		*	18	0	0	0	Jul.
Aug.	89.7	56.1	72.9	107	1956	38	1941	0	0.19	1.25	1945	0	0		0		*	16	0	0	0	Aug.
Sep.	88.1	53.7	70.9	110	1955	33	1942	20	0.43	1.79	1939	0	0		0		*	14	0	0	0	Sep.
Oct.	79.9	47.7	63.8	103	1958+	31	1935	70	0.81	1.24	1957	0	0		0		2	5	0	*	0	Oct.
Nov.	73.2	41.7	57.5	92	1956	26	1938	240	1.03	3.02	1944	0	0		0		2	*	0	2	0	Nov.
Dec.	67.0	39.3	53.2	90	1938	22	1954	370	3.30	4.43	1940	T	T	1959	T	1959	5	*	0	4	0	Dec.
Year	75.7	45.4	60.6	110	Sept. 1955	18	Jan. 1937	2430	19.82	6.03	Feb. 1937	T	T	Dec. 1959+	T	Dec. 1959+	32	60	0	27	0	Year

(a) Average length of record, years.

T Trace, an amount too small to measure.

+ Also on earlier dates, months, or years.

* Less than one half.

** Base 65°F (Estimated).

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1935	4.05	5.10	3.01	2.24	0.23	0.0	T	0.82	0.95	0.21	0.22	1.34	18.17
1936	0.52	9.02	3.53	1.56	0.44	T	0.33	0.19	0	1.94	0.17	8.27	25.97
1937	5.30	11.66	4.84	1.27	1.05	0.54	0.21	T	0	0	0.19	2.22	27.28
1938	3.15	4.91	8.25	1.52	1.04	0	0.02	0.02	0	0.86	0.04	7.16	26.97
1939	3.60	3.28	2.87	0.85	0.29	0	T	0.02	4.91	0.91	0.78	0.77	18.28
1940	4.39	4.83	1.26	3.24	T	0	0	0	0.11	1.98	0.91	10.31	27.03
1941	1.78	4.76	8.66	8.01	0.62	0.05	0.12	0.08	0.50	3.19	1.45	4.70	33.92
1942	0.36	2.22	2.78	3.18	0.06	0	0	T	0	0.67	0.58	1.95	11.80
1943	6.82	2.51	4.72	3.35	0.11	0.45	0	0.01	0.06	0.72	0.05	5.51	24.31
1944	2.01	7.31	2.02	1.53	0.30	0.17	0	T	0	0.03	6.78	1.35	21.50
1945	0.76	3.86	6.88	0.49	0.07	0.34	0.04	1.98	0.80	0.15	0.75	8.25	24.37
1952	----	----	----	----	----	----	----	----	----	0	3.70	3.02	----
1953	1.13	1.50	1.98	1.25	0.91	T	0.04	0	0	0	0.96	0.24	8.01
1954	5.40	1.95	7.66	0.18	0.19	0.09	0.30	T	0	0	0.46	0.94	17.17
1955	4.29	1.96	0.80	0.47	2.52	0	0.11	0.16	0	0.03	1.07	1.81	13.22
1956	3.19	1.19	0	2.88	0.12	0	0.06	0	0	0.39	0	0.44	8.27
1957	7.18	0.82	1.46	1.59	2.13	0.43	0	0.02	0	3.86	0.91	1.72	20.12
1958	1.33	3.89	7.23	4.27	0.36	T	0	0.15	0.33	0.05	0.50	0.07	18.18
1959	0.35	6.39	0.03	0.47	0.02	0	T	T	T	0.34	0.07	2.60	10.27
Means	3.09	4.29	3.78	2.13	0.58	0.12	0.07	0.19	0.43	0.81	1.03	3.30	19.82

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1935	----	52.7	49.6	57.4	59.4	66.0	72.8	75.0	71.0	62.2	55.0	53.4	----
1936	53.0	50.7	55.0	57.4	62.3	68.4	75.2	74.6	70.6	64.4	60.4	52.0	62.0
1937	49.0	49.0	57.8	55.1	60.2	64.6	72.6	73.8	73.4	66.2	56.7	54.4	59.9
1938	52.5	49.9	50.0	55.2	59.4	64.4	70.7	73.0	73.7	61.6	55.1	53.6	59.9
1939	48.2	43.8	50.7	57.2	58.9	64.2	70.2	72.4	69.4	61.8	57.6	55.5	59.2
1940	50.9	50.2	53.1	55.4	61.4	63.8	69.6	69.3	66.0	63.7	54.8	54.4	59.4
1941	48.2	51.0	51.6	51.5	61.5	61.0	69.8	67.5	62.0	59.5	56.5	48.2	57.2
1942	49.6	46.2	49.2	50.8	56.1	62.5	71.2	69.6	65.2	59.6	55.6	50.8	57.2
1943	48.6	50.2	50.6	53.2	60.0	61.8	68.6	69.6	71.3	61.6	57.5	48.0	58.4
1944	47.1	44.1	48.2	49.8	56.3	57.0	----	----	----	----	----	----	----
1952	----	----	----	----	----	----	----	----	----	68.8	54.2	50.8	----
1953	56.1	52.0	54.1	55.1	58.9	65.6	75.7	72.6	70.9	65.5	59.3	51.8	61.5
1954	48.7	57.3	51.5	58.4	62.3	66.6	77.6	71.4	72.4	65.5	60.9	52.2	62.0
1955	47.5	50.6	55.9	56.8	60.3	66.4	78.0	78.0	75.0	63.6	57.3	52.0	61.3
1956	52.2	47.4	55.3	55.7	63.2	69.6	71.0	71.0	76.8	61.6	60.6	54.1	61.8
1957	49.1	55.7	55.0	57.4	59.7	72.3	76.5	75.9	72.0	61.3	53.9	55.2	62.0
1958	52.3	54.7	51.6	59.2	65.8	68.1	72.0	76.6	75.1	70.1	58.2	60.6	63.7
1959	57.7	51.9	61.7	64.5	61.9	72.1	79.5	76.2	71.9	69.2	64.1	56.4	65.6
Means	50.2	50.4	52.7	55.9	60.5	65.6	73.2	72.9	70.9	63.8	57.5	53.2	60.6
											Annual	. . .	60.46

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STATION HISTORY

The first Weather Bureau records for Alpine were taken between February 1, 1935, and August 31, 1945, by Harold L. Flegal, at his vineyard about ¼ mile southwest of the postoffice. The elevation was given as 1900. The instruments for this station were furnished by the Chamber of Commerce. The more recent data used in this summary were obtained from a point ¾ mile west of the postoffice at an elevation of 1700. The records at this location were started on October 2, 1952, by Ernest W. Wright and were continued to December 1958. Here the shelter was still the property of the Chamber of Commerce, but the thermometers and rain gage were furnished by the Weather Bureau.

Beginning in December 1958 the station has been operated by the Fire Department, with Robert Fey as the observer. The location is ½ mile west of the postoffice at an elevation of 1735 feet.

There are also records available from two other locations in the area. From May 1951 to Oct. 1952 observers were H.E. Aston and Marion C. Aston. Their station was about 1.2 miles north northeast of the postoffice, at 2260 feet. R.E. Gastil took observations from January 1950 to May 1951, but we have no information concerning the location and exposure of this station. Because of the higher elevation of the Aston station and doubt about the location of Gastil's we have not included these records in this summary. The wisdom of combining the Flegal and Wright records might be debated, but it has been done in order to provide a long enough record to make a useful summary.

Most of the Alpine records have been published currently in the California section of the Weather Bureau's Climatological Data. The original manuscript copies, for the most part, are on file in the Weather Bureau Office in San Francisco.

More about Alpine Climate from Page One.

during the summer would drop into the 30's most afternoons and rise to the 60's at night. Winter readings are somewhat higher. Occasionally very dry conditions are reported when east and northeast winds prevail over southern California. These situations may develop at any time, dropping humidities to 10% or lower, but they are most likely during the late fall or early winter months.

The prevailing wind direction is from the southwest, northwest and west winds are also quite common. While the average speed is probably quite light there may be occasional strong winds associated with thunderstorms or with the more widespread storms of winter. Also, the infrequent east winds may at times reach great enough speeds to cause slight local damage.

The last 32° temperature of the spring occurs early in April, on the average, while the first freezing temperature in the fall can be expected near the end of November, giving the average length of the growing season of about 235 days.

Alpine Weather Records

Climate, Temperature and Rainfall

Prepared by C. Robert Elford
Weather Bureau Office, San Francisco, California.

Presented as a Public Service by the Alpine Sun

CLIMATE OF ALPINE, CALIFORNIA

Alpine is about 25 miles from the ocean in hilly country sloping gradually upward to the east. The elevation ranges from around 1400 to 2000 feet. Viejas Mountain, 4224 feet, rises about 5 miles northeast of the city. The crest of the mountains, around 6000 feet, is 15 to 20 miles farther east. El Capitan reservoir is about 5 miles northwest and 1000 feet lower.

The southerly latitude of Alpine, combined with its relative proximity to the ocean, results in an equable temperature regime. The average maximum during July, the warmest month, is just over 90°, while the average minimum during January, the coldest month is about 37°. High temperatures during the summer, however, occasionally reach well above 100°, a record 110° having been recorded in September, 1955. Even in winter it is possible to have maximums in the 80s. Readings of 90° or higher have been recorded 60 days per year, on the average. The minimum has dropped to as low as 18° in January of 1937, and subfreezing temperatures have been reported at one time or another during each month from October through April. On the average there are 27 days per year with temperatures of 32° or below. There have been occasions when extreme temperature conditions have persisted for long periods. In July, 1959, for example, the maximum reached 90° or higher on 28 days. At the other extreme was January, 1937, when freezing temperatures were recorded on 22 days.

The average annual precipitation amounts to 19.82 inches, but only 0.38 inch of this falls during the months of June, July, and August. More than 16 inches falls from December through April. A total of more than 6 inches of rainfall in a 24-hour period has been reported. This fell within a 13-hour period, and consideration of other available data indicates that amounts up to 7.50 inches in 24 hours might be expected as often as once in 100 years. Snow is infrequent, although it has been reported on several occasions. Hail falls at times in connection with thundershowers.

Clear skies are the rule during much of the year. Averages show about 254 days to be clear, 51 partly cloudy, and only 60 cloudy.

While relative humidity records are not available, a study of other nearby reports would suggest that readings

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