



## **NOAA TECHNICAL MEMORANDUM NWS WR-276**

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### **CLIMATE OF RENO, NEVADA**

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Reno, Nevada**

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- 256 Climate of San Diego, California. Thomas E. Evans, III and Donald A. Halvorson, October 1998. (PB99-109381)
- 257 Climate of Seattle, Washington. Dana Felton, November 1998. (PB99-113482)
- 258 1985-1998 North Pacific Tropical Cyclones Impacting the Southwestern United States and Northern Mexico: An Updated Climatology. Armando L. Garza, January 1999. (PB99-130502)
- 259 Climate of San Jose, California. Miguel Miller, April 1999. (PB99-145633)
- 260 Climate of Las Vegas, Nevada. Paul H. Skrbac, December 1999

- 261 Climate of Los Angeles, California. David Bruno, Gary Ryan, with assistance from Curt Kaplan and Jonathan Slemmer. January 2000
- 262 Climate of Miles City, Montana. David A. Spector and Mark H. Strobin. April 2000
- 263 Analysis of Radiosonde Data for Spokane, Washington. Rocco D. Pelatti. November 2000
- 264 Climate of Billings, Montana. Jeffrey J. Zeltwanger and Mark H. Strobin. November 2000
- 265 Climate of Sheridan, Wyoming. Jeffrey J. Zeltwanger, Sally Springer, Mark H. Strobin. March 2001
- 266 Climate of Sacramento, California. Laura Masters-Bevan. December 2000 (7th Revision)
- 267 Sulphur Mountain Doppler Radar: A Performance Study. Los Angeles/Oxnard WFO. August 2001
- 268 Prediction of Heavy Snow Events in the Snake River Plain Using Pattern Recognition and Regression Techniques. Thomas Andretta and William Wojcik. October 2003
- 269 The Lewis and Clark Expedition 18-03-1806, Weather, Water and Climate, Vernon Preston, Pocatello Idaho, December 2004.
- 270 Climate of San Diego, California, Emmanuel M. Isla, September 2004 (2<sup>nd</sup> Edition)
- 271 Climate of Las Vegas, Nevada, Andrew S. Gorelow, January 2005, (2<sup>nd</sup> Edition)
- 272 [Climate of Sacramento, California](#), Revised by: Laura A. Bevan and George Cline, June 2005
- 273 Climate of Flagstaff, AZ 4<sup>th</sup> Revision. Mike Staudenmaier, Jr, Reginald Preston(R)  
Paul Sorenson (R) , August 2005
- 274 Climate of Prescott, AZ, Bob Fogarty, Mike Staudenmaier Jr., Flagstaff WFO, AZ, August 2005.
- 275 Climate of San Diego, CA, 3<sup>rd</sup> Revision. Noel M. Isla, Jennifer Lee, March 2006
- 276 Climate of Reno, NV, Brian Ohara, Reno, NV October 2006

# **CLIMATE OF RENO, NEVADA**

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Reno, Nevada**

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## Introduction

Reno is located in far-west central Nevada in the lee of the Sierra Nevada mountain range. Reno is on the boundary between two distinct climatic regimes. The first regime is the dry high desert climate of the western Great Basin. The second regime is that of the alpine Sierra Nevada. Both regimes greatly influence Reno's climate.

As a result of its location in the high desert of the Great Basin, Reno experiences large temperature ranges on both a diurnal and an annual scale. During the summer afternoon highs are often above 90° F, but at night the air mass can cool down into the 50s. In the last five or six years however, nighttime lows during July and early August sometimes do not make it below 65° F. As will be seen in the tables in the Temperature section below, this warming trend has been seen in summer high temperatures, but not to the extent that it is reflected in the nighttime temperatures.

These conditions may be due to an urban heat island effect. Since the early 1940s the official observation site for Reno has been the airport. When the airport became the official observation site on September 1, 1942 the airport was a few miles southeast of town in a rural area. There was a noticeable cooling in the average temperatures during the 1940s from what had been seen during the 1930s when the observation site was downtown. Average temperatures have shown a gradual warming trend over the decades. This consistent warming may be due to the fact that the city of Reno has grown in area and now surrounds the airport. The weather observation site is now in an urban area, and thus the air mass (especially during summer) has a more difficult time cooling down at night.

This warming has not been seen as much during the winter as daytime highs are usually in the 40s to lower 50s, and nighttime lows in the 30s. These winter readings have been fairly consistent throughout the decades without showing any appreciable trends.

Precipitation data clearly shows the influence of the Sierra Nevada to the west. There is a definite rain shadow effect that is seen in Reno's precipitation and snowfall data. Some locations in the Sierra receive ten times the precipitation that Reno receives. The precipitation that occurs at those higher elevation locations is mainly from snowfall. Most of Reno's precipitation falls from November through March. This is a combination of rainfall and snowfall. Reno receives an average of 7.48 inches of precipitation per calendar year (1971-2000 normals). Of this annual total, 5.01 inches (67%) falls during the six-month period from November through April. The warm half of the year is relatively dry, with a secondary precipitation maximum in May.

An average of 23.5 inches of snow falls in Reno annually, mainly from early November through March. Early-autumn and late-spring snows are rare. The precipitation shadow (or snow shadow) effect can be seen with this data as well. Where mountainous locations to the west receive up to ten times the precipitation that Reno records, they get up to 20 times the snowfall. Some locations in the higher elevations,

such as cooperative observing sites and ski resorts, can receive 400 inches or more of snow from a snowfall season that can last from mid October through late April. As with many locations in the western United States, this “white gold” in the form of a deep snowpack, provides much of the water that people use in cities, for industry, and for agriculture. However, a decrease in snowpack can adversely affect a wide range of users, from ski resorts and other tourist industries, to water and electric utilities, and the public at large (Barry, 2005).

### **Change in location of weather observing sites**

The climate record for Reno, Nevada extends back to 1870, and the official observation site has moved occasionally during that period. By referring to U. S. Weather Bureau / National Weather Service (NWS) Local Climatological Data (LCD) Annual Summaries for Reno, a chronology of weather observation station moves can be derived.

From December 1, 1870 until December 31, 1887 daily rainfall data was collected by the Southern Pacific Railroad Company agent at the rail depot in Reno. Starting on January 1, 1888 and continuing through November 10, 1905, maximum and minimum temperature data, and precipitation data, were recorded at the Administration Building (Morrill Hall) on the University of Nevada campus north of town.

The U.S. Weather Bureau took over official observations for Reno on November 11, 1905. The Weather Bureau’s first observation site was at the Thoma-Biglow Building, on the northwest corner of First and Virginia Streets, and continued here until February 28, 1910. Starting on March 1, 1910 and continuing through February 28, 1934 weather observations were taken at the I. O. O. F. (Independent Order of Odd Fellows) Building on the southeast corner of Second and North Center Streets. The final downtown location was at the Post Office Building on the northeast corner of South Virginia and Mill Streets. Weather observations were taken here from March 1, 1934 through August 31, 1942.

In order to assist the growing aviation industry, weather observing stations were opened at airports along the nation’s transcontinental air routes (Whitnah, 1961). The Weather Bureau’s station at Reno’s airport (then called Hubbard Field) opened on January 8, 1931. Twenty-four-hour duty, along with hourly weather observations and upper air observations, started at this time. However, weather observations were now being taken at two locations concurrently (Hubbard Field and the downtown Post Office). This situation continued from January 8, 1931 through August 31, 1942 (when the city Weather Bureau office at the Post Office Building was closed). On September 1, 1942 the airport became the official observation site for Reno. This airport continues to be the official weather observation site to this day.

The transfer in the official observation site to the airport constituted a change to a location a few miles outside of town (actually 3.5 miles south southeast of the Post Office). However, the airport was "farther away", so to speak, then than it is now. In the

1930s and early 1940s this area was rural. The city of Reno has expanded in area over time and the Reno-Tahoe International Airport is now surrounded by an urban area. This difference between the two locations can be seen with precipitation, and especially temperature, data for Reno. There was a continual rise in average annual temperatures from the late 19th century through the 1930s (a gradual evolution from wood structures to brick and stone buildings and paved roads in town?). During the 1940s the average temperature was conspicuously less than it had been (since the readings were now being taken in a rural area). Average temperatures then started a gradual warm-up, with impressive rises during the 1980s and 1990s (urban heat island effects). In a strongly developed heat island, the temperature in the urban area can be up to 10°F greater than it is in the surrounding rural areas (Oliver and Hidore, 2002).

## **Climate normals**

Reno experiences a fairly typical continental climate. There are four seasons, but spring and fall can sometimes be short. It might be more accurate to describe two main seasons (warm and dry, and cool and wet) with two transition seasons. In explaining the short spring seasons in middle-latitude dry climates, Trewartha and Horn (1980) state that “[b]ecause the ground is usually dry and lacks much snow, the arrival of spring is relatively sudden, and the warm season advances rapidly”.

This continentality is reflected in the diurnal temperature ranges experienced throughout the year. During winter and the period of lower sun angle and relatively higher humidity values, the normal daily temperature range can be 20 to 25 degrees, with lows in the 20s and highs in the 40s. The ranges are even higher during the warmer months due, again, to the higher sun angles and generally lower relative humidities. Daytime highs are usually in the 90s during July and August. Nighttime lows drop into the 50s to lower 60s. One caveat should be noted: the 1971-2000 climate normals for Reno list low temperatures in the lower 50s during July and August. However, during the last five or six years nighttime lows have typically been in the upper 50s to lower 60s. This may be a result of increased urbanization adjacent to the official observation site at the Reno-Tahoe International Airport.

As mentioned above, Reno experiences dry summers and wet winters. This annual precipitation regime is often referred to as a “Mediterranean climate” (Warner, 2004). In fact, at Reno 4.66 inches of precipitation (62% of the annual total of 7.48 inches) is recorded during the months of November through March (1971-2000 normals). Only 2.47 inches of precipitation is recorded during the drier half of the year (May through October).

Much of the precipitation during the colder half of the year falls as rain. But Reno does receive snow during the winter. During the snowfall season (typically November through March) Reno sees nearly two feet of snow (23.5 inches). In the foothills west of the city, however, residents may see three to four times this amount.

A study of degree days can be instructive. During a typical year Reno records 5600 heating degree days (HDDs), spread throughout the year, from highs of 987 in December and 984 in January, to a low of 12 HDDs in July. The 1971-2000 normals for cooling degree days (CDDs) clearly show the mild summer nights that Reno residents have experienced up until the last decade or so. Reno averages only 493 CDDs throughout the year (more than an order of magnitude less than the yearly total of HDDs). However, as discussed above, this may change in the future. Reno may start to record more CDDs during the year if nighttime temperatures continue their warming trend. This may be reflected in the future 1981-2010 normals.

The following tables list the monthly climate normals for Reno.

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for January  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	68	1964	-5	1975	44	20	32	33	0	0.03	0.03	719	446	1
2	59	1927	-9	1942	44	20	32	33	0	0.06	0.06	719	447	2
3	65	1927	-11	1912/71	44	21	32	33	0	0.09	0.09	719	448	3
4	67	1927	-8	1972	44	21	32	33	0	0.12	0.12	719	448	4
5	65	1948	-6	1910	44	21	33	33	0	0.15	0.15	719	449	5
6	66	1969	-8	1890	44	21	33	33	0	0.18	0.18	719	450	6
7	67	1969	-18	1890	44	21	33	33	0	0.21	0.21	719	451	7
8	64	1990	-19	1890	44	21	33	33	0	0.24	0.24	719	452	8
9	68	1990	-18	1890	45	21	33	33	0	0.27	0.27	719	453	9
10	63	1990	-6	1890	45	21	33	32	0	0.30	0.30	719	454	10
11	67	1953	-10	1949	45	21	33	32	0	0.33	0.33	718	455	11
12	63	2002	-10	1949	45	21	33	32	0	0.36	0.36	718	456	12
13	62	1912/45/2006	-16	1949	45	21	33	32	0	0.39	0.39	718	457	13
14	62	2000	-13	1888	45	22	33	32	0	0.42	0.42	718	458	14
15	70	1967	-12	1888/1949	45	22	33	32	0	0.45	0.45	717	459	15
16	64	1920	-11	1888	45	22	33	32	0	0.48	0.48	717	500	16
17	64	1971	-7	1949	45	22	33	32	0	0.51	0.51	716	501	17
18	66	1971	-4	1888/1910/49	45	22	34	32	0	0.54	0.54	716	502	18
19	67	1986	-4	1890/1952	46	22	34	32	0	0.58	0.58	715	503	19
20	65	1950	-12	1937	46	22	34	31	0	0.62	0.62	715	504	20
21	62	1994	-17	1916	46	22	34	31	0	0.66	0.66	714	506	21
22	65	1981	-9	1890	46	22	34	31	0	0.70	0.70	714	507	22
23	68	1948	-10	1962	46	23	34	31	0	0.74	0.74	713	508	23
24	67	1948	-6	1949/62	46	23	34	31	0	0.78	0.78	713	509	24
25	67	1975	-16	1949	47	23	35	31	0	0.82	0.82	712	510	25
26	67	1987	-15	1949	47	23	35	31	0	0.86	0.86	711	511	26
27	64	1987	-7	1890	47	23	35	30	0	0.90	0.90	710	512	27
28	62	1920/53	-4	1898/1949	47	23	35	30	0	0.94	0.94	710	514	28
29	64	1986	-7	1949	48	23	35	30	0	0.98	0.98	709	515	29
30	65	2003	-5	1949	48	23	36	30	0	1.02	1.02	708	516	30
31	71	2003	-13	1916	48	23	36	30	0	1.06	1.06	707	517	31

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
71 on 31	-19 on 8	45.5	21.8	33.6	984	0	1.06
					Season HDD	Season CDD	Yearly PCPN
					3283	0	1.06

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for February  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	66	1934	-8	1956	48	24	36	29	0	0.04	1.10	707	519	1
2	67	1904	-9	1956	49	24	36	29	0	0.08	1.14	706	520	2
3	70	1963	-8	1903	49	24	36	29	0	0.12	1.18	705	522	3
4	69	2001	1	1923/89	49	24	37	29	0	0.16	1.22	704	523	4
5	69	1995	-10	1989	50	24	37	29	0	0.20	1.26	703	524	5
6	67	1951	-15	1989	50	24	37	29	0	0.24	1.30	702	525	6
7	67	1951	-16	1989	50	24	37	28	0	0.28	1.34	701	526	7
8	68	1888	-12	1989	50	24	37	28	0	0.32	1.38	700	527	8
9	69	1951	-3	1929	51	25	38	28	0	0.36	1.42	659	529	9
10	70	1971	-4	1923	51	25	38	28	0	0.40	1.46	658	530	10
11	68	1921	-6	1901	51	25	38	28	0	0.44	1.50	656	531	11
12	67	1924	-5	1949	51	25	38	27	0	0.48	1.54	655	532	12
13	71	1971	-5	1949	52	25	38	27	0	0.52	1.58	654	533	13
14	68	1924	-6	1903	52	25	38	27	0	0.56	1.62	653	534	14
15	69	1977	-4	1903	52	25	39	27	0	0.60	1.66	652	536	15
16	73	1977	-1	1903	52	26	39	27	0	0.64	1.70	650	537	16
17	71	1930	0	1894	52	26	39	27	0	0.68	1.74	649	538	17
18	68	1981	1	1917	53	26	39	26	0	0.72	1.78	648	539	18
19	72	1965	-7	1990	53	26	39	26	0	0.76	1.82	646	540	19
20	72	1982	-6	1990	53	26	40	26	0	0.80	1.86	645	541	20
21	74	1965	0	1897	53	26	40	26	0	0.84	1.90	644	542	21
22	73	2002	-12	1897	53	26	40	26	0	0.88	1.94	642	544	22
23	71	1995	-11	1897	54	27	40	25	0	0.91	1.97	641	545	23
24	71	1986/95	-3	1897	54	27	40	25	0	0.94	2.00	640	546	24
25	73	1963	4	1897	54	27	40	25	0	0.97	2.03	638	547	25
26	74	1888	-10	1962	54	27	40	25	0	1.00	2.06	637	548	26
27	74	1986	-12	1962	54	27	41	25	0	1.03	2.09	635	549	27
28	76	1888	-7	1955	54	27	41	25	0	1.06	2.12	634	550	28
29	68	1968	9	1948	54	27	41	25	0	1.06	2.12	633	551	29

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
76 on 28	-16 on 7	51.7	25.4	38.5	756	0	1.06

Season HDD	Season CDD	Yearly PCPN
4039	0	2.12

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for March  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Record Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	72	1934	3	1971	55	27	41	24	0	0.04	2.16	632	551	1
2	76	1921	11	1971	55	28	41	24	0	0.08	2.20	631	552	2
3	71	1910/31	5	1951	55	28	41	24	0	0.12	2.24	629	553	3
4	74	1925	7	1902	55	28	41	24	0	0.15	2.27	628	554	4
5	79	1972	0	1971	55	28	42	24	0	0.18	2.30	626	555	5
6	75	1972	11	1971	55	28	42	24	0	0.21	2.33	625	557	6
7	72	1979	4	1998	55	28	42	23	0	0.24	2.36	623	558	7
8	79	1972	1	1964	56	28	42	23	0	0.27	2.39	622	559	8
9	79	1916	13	1935	56	28	42	23	0	0.30	2.42	620	600	9
10	74	1997	14	1935	56	29	42	23	0	0.33	2.45	618	601	10
11	76	1916	11	1948	56	29	43	23	0	0.36	2.48	617	602	11
12	75	1888	7	1922	56	29	43	23	0	0.39	2.51	615	603	12
13	76	1888	13	1893/1907/54	57	29	43	23	0	0.42	2.54	614	604	13
14	80	1994	5	1944	57	29	43	22	0	0.45	2.57	612	605	14
15	76	1934	11	1944	57	29	43	22	0	0.48	2.60	611	606	15
16	76	1916	3	1952	57	29	43	22	0	0.51	2.63	609	607	16
17	78	1972	9	1952	57	29	43	22	0	0.54	2.66	607	608	17
18	77	1947	-2	1945	57	30	44	22	0	0.57	2.69	606	609	18
19	77	1997	14	1970	58	30	44	22	0	0.60	2.72	604	610	19
20	81	2004	6	1952	58	30	44	21	0	0.63	2.75	603	611	20
21	80	2004	1	1952	58	30	44	21	0	0.66	2.78	601	612	21
22	77	2004	5	1952	58	30	44	21	0	0.68	2.80	559	613	22
23	76	1960	12	1898	58	30	44	21	0	0.70	2.82	558	614	23
24	75	1960	12	1902	59	30	45	21	0	0.72	2.84	556	615	24
25	78	1960	12	1902	59	30	45	21	0	0.74	2.86	555	616	25
26	77	1988	11	1902	59	30	45	20	0	0.76	2.88	553	617	26
27	75	1966/86	13	1902	59	31	45	20	0	0.78	2.90	552	618	27
28	76	1966	11	1977	60	31	45	20	0	0.80	2.92	550	619	28
29	78	1966/2004	-3	1897	60	31	45	20	0	0.82	2.94	548	620	29
30	82	1966	15	1896/1897	60	31	45	20	0	0.84	2.96	547	621	30
31	83	1966	12	1905	60	31	46	20	0	0.86	2.98	545	622	31

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
83 on 31	-3 on 29	57.2	29.3	43.3	683	0	0.86
					Season HDD	Season CDD	Yearly PCPN
					4722	0	2.98



RENO TAHOE AIRPORT  
 Monthly Climatic Summary for April  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	88	1966	15	1970	61	31	46	20	0	0.02	3.00	544	623	1
2	83	1961	17	1963	61	31	46	19	0	0.04	3.02	542	624	2
3	86	1961	13	1956	61	31	46	19	0	0.06	3.04	541	625	3
4	80	1959/60/2002	15	1945	61	31	46	19	0	0.08	3.06	539	626	4
5	82	1982/89	17	1955/97	61	31	46	19	0	0.09	3.07	538	627	5
6	85	1989	19	1929/55/97	62	32	47	19	0	0.10	3.08	536	628	6
7	85	1989	13	1953	62	32	47	19	0	0.11	3.09	534	629	7
8	82	1989	17	1948	62	32	47	18	0	0.12	3.10	533	630	8
9	83	1989	15	1953/76	62	32	47	18	0	0.13	3.11	531	631	9
10	83	1989	17	1927	63	32	47	18	0	0.14	3.12	530	632	10
11	84	1888	18	1954/55	63	32	48	18	0	0.15	3.13	528	633	11
12	86	1888	18	1948/53/70	63	32	48	18	0	0.16	3.14	527	734	12
13	88	1888	13	1945	63	33	48	17	0	0.17	3.15	525	635	13
14	85	1888	15	1896	64	33	48	17	0	0.18	3.16	524	636	14
15	83	1936/47/90	14	1896	64	33	48	17	0	0.19	3.17	522	637	15
16	83	1947/87	17	1896	64	33	49	17	0	0.20	3.18	521	638	16
17	83	1962	14	1944	64	33	49	17	0	0.21	3.19	519	639	17
18	83	1989	18	1968	65	33	49	16	0	0.22	3.20	518	640	18
19	83	1888	20	1955	65	34	49	16	0	0.23	3.21	516	641	19
20	86	1888	16	1896	65	34	49	16	0	0.24	3.22	515	642	20
21	86	1888	14	1896/1963	65	34	50	16	0	0.25	3.23	514	643	21
22	84	1888	16	1896/1968	66	34	50	15	0	0.26	3.24	512	644	22
23	84	1910	19	1958/63	66	35	50	15	0	0.27	3.25	511	645	23
24	87	1946	18	1958	66	35	50	15	0	0.28	3.26	510	646	24
25	84	1927	19	1944	67	35	51	15	0	0.29	3.27	508	647	25
26	87	1987	21	1985	67	35	51	14	0	0.30	3.28	507	648	26
27	84	1987/2004	17	1955	67	35	51	14	0	0.31	3.29	506	649	27
28	84	1992	20	1968	67	36	51	14	0	0.32	3.30	504	650	28
29	86	1981	21	1975	68	36	52	14	0	0.33	3.31	503	651	29
30	89	1981	20	1962	68	36	52	13	0	0.35	3.33	502	652	30

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
89 on 30	13 on 3,7,13	64.1	33.2	48.6	502	0	0.35

Season HDD	Season CDD	Yearly PCPN
5224	0	3.33

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for May  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Year	Record Low	Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	90	1947	19	1973	68	37	52	13	0	0.02	3.35	500	653	1
2	88	2004	18	1964	68	37	53	13	0	0.04	3.37	459	654	2
3	89	2004	20	1965	69	37	53	12	0	0.06	3.39	458	655	3
4	87	1992	24	1959	69	37	53	12	0	0.08	3.41	457	656	4
5	87	1947/89/90/92	22	1960	69	38	53	12	0	0.10	3.43	456	657	5
6	87	1987/89	19	1896	70	38	54	12	0	0.12	3.45	455	657	6
7	89	1954	20	1950	70	38	54	11	0	0.14	3.47	453	658	7
8	88	2001	24	1943	70	38	54	11	0	0.16	3.49	452	659	8
9	87	2001	17	1896	70	39	54	11	0	0.18	3.51	451	700	9
10	88	1934	16	1896	71	39	55	11	0	0.20	3.53	450	701	10
11	90	2001	23	1953	71	39	55	10	0	0.22	3.55	449	702	11
12	89	1959	24	1943/53	71	39	55	10	0	0.24	3.57	448	703	12
13	97	1976	24	1943/61	72	40	56	10	0	0.26	3.59	447	704	13
14	90	1987	25	1968	72	40	56	10	0	0.28	3.61	446	705	14
15	92	1927	26	1968	72	40	56	9	0	0.30	3.63	445	706	15
16	95	1970	25	1943	73	40	56	9	0	0.32	3.65	444	707	16
17	90	1954/70/ 73/2006	26	1978	73	41	57	9	0	0.34	3.67	444	708	17
18	94	1954	19	1974	73	41	57	9	0	0.36	3.69	443	709	18
19	93	1954	23	1960	74	41	57	8	0	0.38	3.71	442	710	19
20	89	1966/79	24	1974	74	41	58	8	0	0.40	3.73	441	711	20
21	94	1967	28	1893	74	41	58	8	1	0.42	3.75	440	711	21
22	95	1967	19	1960	74	42	58	8	1	0.44	3.77	440	712	22
23	94	2001	26	1960/68	75	42	58	7	1	0.46	3.79	439	713	23
24	94	2001	27	1968	75	42	59	7	1	0.48	3.81	438	714	24
25	92	1943/2001	26	1978	75	42	59	7	1	0.50	3.83	438	715	25
26	91	1949/66/74/83	25	1899	76	42	59	7	1	0.52	3.85	437	716	26
27	95	2003	30	1893	76	43	59	7	1	0.54	3.87	436	716	27
28	97	2003	31	1895/1977/82	76	43	60	6	1	0.56	3.89	436	717	28
29	96	1986	28	1895	77	43	60	6	1	0.58	3.91	435	718	29
30	96	1986	29	1979	77	43	60	6	1	0.60	3.93	435	719	30
31	98	1910	30	1951	77	43	60	6	1	0.62	3.95	434	719	31
Highest Temperature		Lowest Temperature		Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN				
98 on 31		16 on 10		72.6	40.2	56.4	285	11	0.62					
							Season HDD	Season CDD	Yearly PCPN					
							5509	11	3.95					

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for June  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	93	1992	30	1955	78	44	61	5	1	0.02	3.97	434	720	1
2	96	1970	29	1966/71	78	44	61	5	1	0.04	3.99	433	721	2
3	95	1970	30	1890	78	44	61	5	1	0.06	4.01	433	722	3
4	94	1970/77	30	1962	79	44	62	5	1	0.08	4.03	433	722	4
5	99	1977	32	1954/62	79	44	62	5	1	0.10	4.05	433	723	5
6	95	1977	25	1954	80	45	62	4	1	0.12	4.07	432	723	6
7	96	1955	32	1906/46/62	80	45	62	4	1	0.14	4.09	432	724	7
8	98	1955	27	1950	80	45	63	4	1	0.16	4.11	432	725	8
9	98	1955	30	1892	81	45	63	4	1	0.18	4.13	432	725	9
10	96	1918	28	1892	81	45	63	4	2	0.20	4.15	431	726	10
11	99	1940	32	1892	81	46	63	4	2	0.22	4.17	431	726	11
12	99	1940	27	1952	82	46	64	3	2	0.24	4.19	431	727	12
13	101	1940	30	1923/52/53	82	46	64	3	2	0.26	4.21	431	727	13
14	101	1940	33	1907	82	46	64	3	2	0.28	4.23	431	728	14
15	101	1940	30	1945	83	46	65	3	2	0.30	4.25	431	728	15
16	104	1940	31	1944/45	83	47	65	3	2	0.32	4.27	431	728	16
17	100	1940	33	1897/1939	83	47	65	3	2	0.34	4.29	431	729	17
18	101	1985	33	1973	84	47	65	3	3	0.35	4.30	431	729	18
19	99	1961	33	1978	84	47	66	2	3	0.36	4.31	432	729	19
20	101	1961	33	1974	84	47	66	2	3	0.37	4.32	432	729	20
21	100	2001	31	1960	85	48	66	2	3	0.38	4.33	432	730	21
22	100	1961/70	31	1943	85	48	66	2	3	0.39	4.34	432	730	22
23	99	1981/2006	31	1943	85	48	67	2	3	0.40	4.35	432	730	23
24	103	1988	32	1943	86	48	67	2	4	0.41	4.36	433	730	24
25	102	2006	31	1943	86	48	67	2	4	0.42	4.37	433	730	25
26	100	1968	29	1974	86	49	68	2	4	0.43	4.38	433	730	26
27	100	1937	32	1974	87	49	68	2	4	0.44	4.39	434	730	27
28	99	1956	35	1969/75	87	49	68	1	4	0.45	4.40	434	730	28
29	100	1924/72	29	1963	87	49	68	1	4	0.46	4.41	434	730	29
30	100	1932/50/72	34	1952/63	88	49	69	1	5	0.47	4.42	435	730	30

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
104 on 16	25 on 6	82.8	46.5	64.7	91	72	0.47
					Season HDD	Season CDD	Yearly PCPN
					5600	83	4.42

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for July  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Year	Record Low	Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	100	1967/72/2002	33	1976	88	50	69	1	5	0.01	4.43	435	730	1
2	102	2001	35	1902/63/75	89	50	69	1	5	0.02	4.44	436	730	2
3	101	1937	35	1966	89	50	70	1	5	0.03	4.45	436	730	3
4	102	1991	35	1963	89	50	70	1	6	0.04	4.46	437	730	4
5	100	1970	35	1955	90	50	70	1	6	0.05	4.47	437	730	5
6	100	1945/2004	34	1961	90	50	70	1	6	0.06	4.48	438	729	6
7	100	1964	36	1903	90	51	70	1	6	0.07	4.49	439	729	7
8	99	1985	38	1959/65/79/83	90	51	71	1	6	0.08	4.50	440	729	8
9	102	2002	36	1944	91	51	71	1	6	0.09	4.51	440	728	9
10	108	2002	33	1965	91	51	71	1	6	0.10	4.52	441	728	10
11	108	2002	33	1960/74	91	51	71	1	7	0.11	4.53	442	728	11
12	104	2005	36	1965	91	51	71	1	7	0.12	4.54	442	727	12
13	102	1972	35	1981	91	51	71	0	7	0.13	4.55	443	727	13
14	103	1972	37	1966	92	52	72	0	7	0.14	4.56	443	726	14
15	103	1970/2005	38	1966	92	52	72	0	7	0.15	4.57	444	726	15
16	104	2005	38	1966/74	92	52	72	0	7	0.16	4.58	445	725	16
17	104	1998	39	1966/74	92	52	72	0	7	0.17	4.59	446	724	17
18	104	2006	38	1966/83	92	52	72	0	7	0.18	4.60	446	724	18
19	105	1931	37	1967	92	52	72	0	7	0.19	4.61	447	723	19
20	106	1931	37	1983	92	52	72	0	7	0.20	4.62	448	722	20
21	104	2003	39	1967	92	52	72	0	7	0.21	4.63	449	722	21
22	104	2003	37	1987	92	52	72	0	7	0.22	4.64	450	721	22
23	103	1942	38	1947/65	92	52	72	0	7	0.23	4.65	450	720	23
24	102	1928	38	1947	92	52	72	0	7	0.24	4.66	451	719	24
25	104	1980	38	1947	92	52	72	0	7	0.24	4.66	452	718	25
26	104	1945/80	39	1966/67	93	52	72	0	7	0.24	4.66	453	718	26
27	103	1945/80	39	1965	92	52	72	0	7	0.24	4.66	454	717	27
28	102	1971	38	1965	92	52	72	0	7	0.24	4.66	455	716	28
29	103	1943	39	1896/1948	92	52	72	0	7	0.24	4.66	456	715	29
30	104	2003	36	1942	92	52	72	0	7	0.24	4.66	457	714	30
31	103	2000	37	1964	92	52	72	0	7	0.24	4.66	457	713	31

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
108 on 10,11	33 on 1,10,11	91.2	51.4	71.3	12	204	0.24
					Season HDD	Season CDD	Yearly PCPN
					12	287	4.66

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for August  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	103	2000	36	1942	92	52	72	0	7	0.00	4.66	458	712	1
2	101	1946	37	1956/62/81	92	52	72	0	7	0.00	4.66	459	711	2
3	102	1946	37	1956/81	92	52	72	0	7	0.00	4.66	500	710	3
4	102	1978	36	1963	92	52	72	0	7	0.00	4.66	501	709	4
5	102	1990	38	1950	92	51	72	0	7	0.01	4.67	502	708	5
6	105	1983	37	1891/1954/57	92	51	72	0	6	0.02	4.68	503	706	6
7	102	1990	35	1975	92	51	71	0	6	0.03	4.69	504	705	7
8	103	1972	38	1944	91	51	71	0	6	0.04	4.70	505	704	8
9	103	1969	35	1895	91	51	71	0	6	0.05	4.71	506	703	9
10	103	1970	30	1962	91	51	71	0	6	0.06	4.72	507	702	10
11	105	1940	35	1962	91	51	71	0	6	0.07	4.73	508	700	11
12	102	1933/44/70	34	1962	91	51	71	0	6	0.08	4.74	508	659	12
13	103	1933/98	36	1962	91	51	71	1	6	0.09	4.75	509	658	13
14	102	1920/33/2002	33	1974	91	50	70	1	6	0.10	4.76	510	657	14
15	102	1933	35	1954	90	50	70	1	6	0.11	4.77	511	655	15
16	100	2001	35	1976	90	50	70	1	5	0.12	4.78	512	654	16
17	99	1942/2001	35	1968	90	50	70	1	5	0.13	4.79	513	653	17
18	99	1946/50/2003	33	1978	90	50	70	1	5	0.14	4.80	514	651	18
19	99	2003	34	1974	90	50	70	1	5	0.15	4.81	515	650	19
20	99	1919	36	1963/74	89	49	69	1	5	0.16	4.82	516	648	20
21	100	1982	34	1968	89	49	69	1	5	0.17	4.83	517	647	21
22	101	1982	29	1968	89	49	69	1	5	0.18	4.84	518	645	22
23	98	1931/69	30	1960	89	49	69	1	4	0.19	4.85	519	644	23
24	98	1985	33	1944/62	88	49	69	1	4	0.20	4.86	520	643	24
25	99	1924	31	1963	88	49	68	1	4	0.21	4.87	521	641	25
26	99	1924	33	1960	88	48	68	1	4	0.22	4.88	522	640	26
27	100	1924	34	1960/66	88	48	68	1	4	0.23	4.89	522	638	27
28	99	2001	28	1962	87	48	68	1	4	0.24	4.90	523	637	28
29	100	1915/98	24	1962	87	48	67	2	4	0.25	4.91	524	635	29
30	99	1950	31	1962	87	47	67	2	3	0.26	4.92	525	634	30
31	100	1976	31	1966	87	47	67	2	3	0.27	4.93	526	632	31

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
105 on 6,11	24 on 29	89.9	49.9	69.9	22	164	0.27
					Season HDD	Season CDD	Yearly PCPN
					34	451	4.93

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for September  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Record Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	99	1950	32	1960/64/66	86	47	67	2	3	0.01	4.94	527	630	1
2	101	1950	29	1964	86	47	66	2	3	0.02	4.95	528	629	2
3	100	1988	31	1971	86	47	66	2	3	0.03	4.96	529	627	3
4	100	1988	31	1961	85	46	66	2	3	0.04	4.97	530	626	4
5	98	1955/88	33	1893/1964	85	46	66	2	2	0.05	4.98	531	624	5
6	96	1944/88	31	1964	85	46	65	2	2	0.06	4.99	532	623	6
7	95	1923/44/57/ 79/88	33	1901/60/64	84	46	65	2	2	0.07	5.00	533	621	7
8	96	1944	31	1966	84	45	65	3	2	0.08	5.01	534	619	8
9	96	1944/93	30	1962	84	45	64	3	2	0.10	5.03	534	618	9
10	97	1944/48/90/93	33	1927/62	84	45	64	3	2	0.12	5.05	535	616	10
11	96	1944/45/48	29	1982	83	44	64	3	2	0.14	5.07	536	615	11
12	95	1945/83	26	1972	83	44	64	3	2	0.16	5.09	537	613	12
13	96	1947/71	29	1894/1972	83	44	63	4	1	0.18	5.11	538	611	13
14	96	1937	26	1970	82	44	63	4	1	0.20	5.13	539	610	14
15	95	1947/83	28	1970	82	43	63	4	1	0.22	5.15	540	608	15
16	95	1983	28	1970	82	43	62	4	1	0.24	5.17	541	606	16
17	96	1929	23	1965	81	43	62	4	1	0.26	5.19	542	605	17
18	93	1929/91	20	1965	81	42	62	5	1	0.28	5.21	543	603	18
19	94	1991	20	1965	81	42	61	5	1	0.30	5.23	544	602	19
20	92	1943/91	24	1965	80	42	61	5	1	0.32	5.25	545	600	20
21	90	1935/43/49/ 74/87	24	1895	80	42	61	5	1	0.34	5.27	546	558	21
22	91	1943/74/87/92/ 2001/02/03	23	1968	80	41	60	6	1	0.36	5.29	546	557	22
23	93	2003	26	1895	79	41	60	6	1	0.38	5.31	547	555	23
24	94	2003	21	1958	79	41	60	6	1	0.39	5.32	548	553	24
25	94	1964	25	1972	79	40	60	6	1	0.40	5.33	549	552	25
26	91	1963	23	1970	78	40	59	7	0	0.41	5.34	550	550	26
27	92	2003	25	1945	78	40	59	7	0	0.42	5.35	551	548	27
28	94	2003	25	1959	77	39	58	7	0	0.43	5.36	552	547	28
29	91	1963	23	1965	77	39	58	8	0	0.44	5.37	553	545	29
30	92	1980	21	1950	77	39	58	8	0	0.45	5.38	554	544	30

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
101 on 2	20 on 18,19	81.7	43.1	62.4	130	41	0.45
					Season HDD	Season CDD	Yearly PCPN
					164	492	5.38

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for October  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Record Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	91	1980	21	1950	76	38	57	8	0	0.01	5.39	555	542	1
2	90	1963	22	1971	76	38	57	9	0	0.02	5.40	556	540	2
3	90	1980	20	1973	76	38	57	9	0	0.03	5.41	557	539	3
4	89	1987	20	1973	75	37	56	9	0	0.04	5.42	558	537	4
5	89	1979/80	20	1969	75	37	56	9	0	0.05	5.43	559	536	5
6	88	1942/80/91/96	18	1969	74	37	56	10	0	0.06	5.44	600	534	6
7	87	1915/64/80/96	22	1962	74	37	55	10	0	0.07	5.45	601	533	7
8	91	1965	21	1968	74	36	55	11	0	0.08	5.46	602	531	8
9	90	1996	19	1961	73	36	55	11	0	0.09	5.47	603	529	9
10	87	1917	16	1973	73	36	54	11	0	0.10	5.48	604	528	10
11	86	1991	21	1973	72	35	54	12	0	0.11	5.49	605	526	11
12	86	1991/92	19	1969	72	35	54	12	0	0.12	5.50	606	525	12
13	87	1971	22	1942	71	35	53	12	0	0.13	5.51	607	523	13
14	86	1940	18	1960	71	34	53	13	0	0.14	5.52	608	522	14
15	89	1991	21	1968	71	34	52	13	0	0.15	5.53	609	520	15
16	85	1991	18	1965	70	34	52	13	0	0.16	5.54	610	519	16
17	87	1973	16	1893	70	34	52	14	0	0.17	5.55	611	518	17
18	86	1988	19	1946/66	69	33	51	14	0	0.18	5.56	612	516	18
19	85	1921	19	1966	69	33	51	14	0	0.19	5.57	613	515	19
20	85	2003	18	1996	68	33	51	15	0	0.20	5.58	614	513	20
21	84	2003	18	1996	68	33	50	15	0	0.22	5.60	615	512	21
22	83	2003	14	1961	67	32	50	15	0	0.24	5.62	616	511	22
23	83	1937	16	1961	67	32	49	16	0	0.26	5.64	617	509	23
24	89	1959	18	1945/56	66	32	49	16	0	0.28	5.66	618	508	24
25	83	1959	18	1971	66	31	49	17	0	0.30	5.68	619	507	25
26	82	1959	16	1939	65	31	48	17	0	0.32	5.70	621	505	26
27	84	1937	16	1960	65	31	48	17	0	0.34	5.72	622	504	27
28	82	1937	14	1948	64	31	48	18	0	0.36	5.74	623	503	28
29	79	1937	8	1971	64	31	47	18	0	0.38	5.76	624	501	29
30	78	1965	13	1972	63	30	47	19	0	0.40	5.78	625	500	30
31	76	1931/65	13	1946/61	63	30	46	19	0	0.42	5.80	626	459	31

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
91 on 1,8	8 on 29	69.9	34.0	52.0	416	0	0.42
					Season HDD	Season CDD	Yearly PCPN
					580	492	5.80

RENO TAHOE AIRPORT  
 Monthly Climatic Summary for November  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Record Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	77	1960	15	1953/71	62	30	46	19	0	0.02	5.82	627	500	1
2	76	1916	13	1961	62	30	46	20	0	0.04	5.84	628	458	2
3	77	1931/49	9	1935	61	29	45	20	0	0.06	5.86	629	457	3
4	76	1914/45/69	7	1935	60	29	45	20	0	0.08	5.88	630	456	4
5	77	1980	9	1935	60	29	44	21	0	0.10	5.90	631	455	5
6	75	1931/91	9	1961	59	29	44	21	0	0.12	5.92	632	454	6
7	76	1991	12	1961	59	28	44	22	0	0.14	5.94	633	453	7
8	73	1958	14	1961/71	58	28	43	22	0	0.16	5.96	635	452	8
9	73	1913/90	12	1946/48/75	58	28	43	22	0	0.18	5.98	636	451	9
10	74	1941	12	1985	57	28	43	23	0	0.20	6.00	637	448	10
11	75	1995	8	1985	57	27	42	23	0	0.23	6.03	637	450	11
12	73	1990	5	1938	57	27	42	23	0	0.26	6.06	638	449	12
13	75	1990	7	1898	56	27	42	24	0	0.29	6.09	639	448	13
14	74	1906	4	1985	56	27	41	24	0	0.32	6.12	640	447	14
15	69	1941	7	1958/85	55	27	41	24	0	0.35	6.15	641	446	15
16	69	1995	5	1909	55	26	41	25	0	0.38	6.18	642	446	16
17	73	1995	1	1958	54	26	40	25	0	0.41	6.21	644	445	17
18	69	1897/1995	8	1964/75	54	26	40	25	0	0.44	6.24	645	444	18
19	72	1932	3	1994	54	26	40	26	0	0.47	6.27	646	443	19
20	72	1932	7	1977	53	25	39	26	0	0.50	6.30	647	443	20
21	74	1924	7	1979	53	25	39	26	0	0.53	6.33	648	442	21
22	69	1915	7	1975	52	25	39	27	0	0.56	6.36	649	441	22
23	69	1970	9	1947	52	25	38	27	0	0.59	6.39	650	441	23
24	75	1970	7	1938	52	24	38	27	0	0.62	6.42	651	440	24
25	75	1970	9	1952	51	24	38	28	0	0.65	6.45	652	440	25
26	69	1949	7	1896	51	24	37	28	0	0.68	6.48	653	439	26
27	70	1946	7	1948	51	24	37	28	0	0.71	6.51	654	439	27
28	69	1949	6	1919	50	23	37	28	0	0.74	6.54	656	438	28
29	68	1940/95	4	2004	50	23	37	29	0	0.77	6.57	657	438	29
30	68	1940	8	1922/2004	50	23	36	29	0	0.80	6.60	659	437	30

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
77 on 1,3,5	1 on 17	55.3	26.4	40.9	732	0	0.80

Season HDD	Season CDD	Yearly PCPN
1312	492	6.60



RENO TAHOE AIRPORT  
 Monthly Climatic Summary for December  
 (based on 1971-2000 normals)

Local standard times are listed. Add 1 hour to convert to daylight savings time when in use.

Day	Record High	Record Year	Record Low	Record Year	Nrm High	Nrm Low	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN	Yearly PCPN	Sun Rise	Sun Set	Day
1	66	1903	9	1976	49	23	36	29	0	0.03	6.63	700	437	1
2	68	1977	5	1922	49	23	36	30	0	0.06	6.66	701	437	2
3	71	1940	6	1948	49	22	36	30	0	0.09	6.69	702	436	3
4	69	1958	-2	1972	49	22	35	30	0	0.12	6.72	702	436	4
5	67	1958	-12	1972	48	22	35	30	0	0.15	6.75	703	436	5
6	67	1939	6	1891	48	22	35	30	0	0.18	6.78	704	436	6
7	65	1940	4	1956	48	21	35	31	0	0.21	6.81	705	436	7
8	66	1915/89	-12	1972	48	21	35	31	0	0.24	6.84	707	436	8
9	65	1939/79	-16	1972	47	21	34	31	0	0.27	6.87	708	436	9
10	67	1993	-11	1972	47	21	34	31	0	0.30	6.90	709	436	10
11	63	1958	-15	1972	47	21	34	31	0	0.32	6.92	709	436	11
12	69	1921	-5	1932	47	21	34	32	0	0.34	6.94	710	436	12
13	70	1969	-7	1932	47	21	34	32	0	0.36	6.96	710	436	13
14	67	1969	-6	1932	46	21	34	32	0	0.38	6.98	712	436	14
15	65	1962	0	1932/48/67	46	20	33	32	0	0.40	7.00	711	437	15
16	70	1939	4	1931	46	20	33	32	0	0.43	7.03	712	437	16
17	65	1939	5	1965	46	20	33	32	0	0.46	7.06	713	437	17
18	64	1917	-1	1908	46	20	33	32	0	0.49	7.09	713	438	18
19	67	1917	-3	1978	46	20	33	33	0	0.52	7.12	714	438	19
20	63	2005	-7	1978	45	20	33	33	0	0.55	7.15	715	438	20
21	63	2000	-8	1990	45	20	33	33	0	0.58	7.18	715	439	21
22	60	1915/2005	-13	1990	45	20	33	33	0	0.61	7.21	716	439	22
23	62	2005	-9	1990	45	20	33	33	0	0.64	7.24	716	440	23
24	67	1902	-11	1990	45	20	33	33	0	0.67	7.27	717	440	24
25	68	1902	0	1891/1924	45	20	32	33	0	0.70	7.30	717	441	25
26	63	1928/75	-1	1988	45	20	32	33	0	0.73	7.33	717	442	26
27	65	1980	-4	1988	45	20	32	33	0	0.76	7.36	718	442	27
28	63	1998	0	1988	45	20	32	33	0	0.79	7.39	718	443	28
29	62	1917	-7	1889	45	20	32	33	0	0.82	7.42	718	444	29
30	62	1917	-6	1911	45	20	32	33	0	0.85	7.45	718	444	30
31	62	1945	-7	1891	44	20	32	33	0	0.88	7.48	719	445	31

Highest Temperature	Lowest Temperature	Nrm Max	Nrm Min	Nrm Mean	Monthly HDD	Monthly CDD	Monthly PCPN
71 on 3	-16 on 9	46.4	20.7	33.6	987	0	0.88
					Season HDD	Season CDD	Yearly PCPN
					2299	492	7.48

## Temperature

### Daily temperature records

As mentioned in the discussion on normal temperatures above, Reno typically experiences a normal temperature range of 20 to 25 degrees during the winter. The daily temperature ranges are even greater during the summer, with ranges of 30 to 35 degrees.

Extreme temperatures also show the influence of Reno's continental location. Record high temperatures of 100°F to 108°F have been recorded from mid June through early September. The record high of 108 occurred on back-to-back dates (July 10 and 11, 2002). Of course there have been anomalously warm conditions during other years also. The next highest temperatures, 106 degrees and 105 degrees, occurred during the warm July of 1931. This July is the warmest of the twentieth century in Reno. However, it is only the sixth warmest on record. As can be seen below in the list of warmest Julys at Reno (p. 41), the five warmest Julys have all occurred during the twenty-first century.

Records that are not followed as much by the public are maximum nighttime low temperatures. Reno has seen an increase in warm nighttime temperatures through the 1990s, and especially during the twenty-first century. Of temperature data for the 31 dates in July, the record warm minimum readings on fully 18 of those dates have occurred from 2001 through 2006. The highest minimum temperature ever recorded at Reno occurred during the impressive warm spell in July 2006. On the morning of July 23<sup>rd</sup> the temperature only dropped to 77 degrees. With so many warm nighttime readings during the last few years, this seems to be a trend that residents may have to expect in the future.

These warm nighttime temperatures contribute to these months being some of the warmest on record. For ten straight days during the last half of July 2006 the nighttime temperature did not drop below 65°F. During both July 2003 and July 2005, the temperature remained above 65 degrees for eight straight days. July 2005 also saw ten straight days when the temperature rose above 100°F. With an average monthly temperature of 80.0°F, it is easy to see why July 2005 is the warmest month on record at Reno.

Extreme temperatures during the winter are also indicative of a high desert location. The lowest temperature ever recorded at Reno is -19°F which occurred on January 8, 1890, during one of the coldest winters in Reno's history. The temperature dropped to -18 on either side of this date, on both the 7<sup>th</sup> and the 9<sup>th</sup>. It was extremely cold during the day also with the temperature only rising to 6 degrees above zero on January 7 and up to +7°F on January 8.

Another cold period occurred during late January 1949. On ten consecutive days the temperature dropped to below zero, the longest such period in Reno's history. Another cold period was during January 1937 when the temperature dropped to below

zero seven days in a row. January 1949 and January 1937 are the coldest and second coldest Januaries, respectively, in Reno's history. January 1890 is the third coldest on record. These are not only the coldest Januaries, but they are also the three coldest months on record. In fact, they are the only three months in Reno's history that have monthly average temperatures of less than 20°F.

Because of the relatively dry air over the region, record highs during the winter are mainly in the upper 60s. The record high for January in Reno is 71° which occurred on January 31, 2003. January 2003 is the warmest January on record at Reno.

The following tables list daily temperature records for Reno from January 1888 through August 2006. These tables include the record high and record low temperatures for each month, along with the record cool maximum and record warm minimum temperatures. Other tables include information on warmest and coolest months, calendar years, and seasons.

DAILY TEMPERATURE RECORDS FOR

**JANUARY**

FOR RENO/TAHOE INTERNATIONAL AIRPORT

	HIGHEST MAX/YEAR(S)	LOWEST MAX/YEAR(S)	HIGHEST MIN/YEAR(S)	LOWEST MIN/YEAR(S)
01	68/1964	17/1965	53/1997	-5/1975
02	59/1927	18/1942	43/1939	-9/1942
03	65/1927	17/1971	43/1921	-11/1912,71
04	67/1927	17/1971	42/1948	-8/1972
05	65/1948	17/1913	40/1909	-6/1910
06	66/1969	11/1890	42/1909	-8/1890
07	67/1969	<b>6/1890</b>	43/1909,48	-18/1890
08	64/1990	<b>6/1937</b>	40/1953,95	<b>-19/1890 \$</b>
09	68/1990	7/1937	49/1995	-18/1890
10	63/1990	17/1937	42/2000	-6/1890
11	67/1953	20/1898,1993	43/1979	-10/1949
12	63/2002	19/1993	46/1980	-10/1949
13	62/1912,45,2006	17/1997	44/1980	-16/1949
14	62/2000	10/1888	48/2000	-13/1888
15	70/1967	16/1888	<b>54/1974</b>	-12/1888,1949
16	64/1920	17/1917	42/1974	-11/1888
17	64/1971	18/1917	43/1971	-7/1949
18	66/1971	16/1922	41/1953	-4/1888,1910,49
19	67/1986	16/1922	42/1909	-4/1890,1952
20	65/1950	7/1937	46/1967	-12/1937
21	62/1994	10/1937	46/1950	-17/1916
22	65/1981	14/1962	44/1950	-9/1890
23	68/1948	19/1962	44/1943,70	-10/1962
24	67/1948	21/1898	47/1903	-6/1949,62
25	67/1975	26/1898	40/1953	-16/1949
26	67/1987	23/1898,1902,57	38/1942	-15/1949
27	64/1987	22/1890,1957	39/2003	-7/1890
28	62/1920/53	20/1902	38/1917	-4/1898,1949
29	64/1986	19/1903	38/1917,67	-7/1949
30	65/2003	20/1916	41/1888	-5/1949
31	<b>71/2003 #</b>	18/1916	44/1995	-13/1916

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **71** on the 31<sup>st</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **-19** on the 8<sup>th</sup> (all-time record low)

**DAILY TEMPERATURE RECORDS FOR**

**FEBRUARY**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	66/1934	21/1923	43/1907	-8/1956
02	67/1904	20/1903	45/1907	-9/1956
03	70/1963	19/1903	46/1907	-8/1903
04	69/2001	20/1903	50/1890	+1/1923,89
05	69/1995	13/1903	42/1907,96	-10/1989
06	67/1951	<b>12/1902</b>	40/1898	-15/1989
07	67/1951	14/1989	42/1924	<b>-16/1989 \$</b>
08	68/1888	17/1989	38/1999	-12/1989
09	69/1951	18/1901	41/2000	-3/1929
10	70/1971	20/1933	<b>54/1961</b>	-4/1923
11	68/1921	24/1901	41/1902,41	-6/1901
12	67/1924	25/1949	42/1900	-5/1949
13	71/1971	15/1903	42/1979	-5/1949
14	68/1924	19/1903	44/1982	-6/1903
15	69/1977	20/1903	42/1904,82	-4/1903
16	73/1977	23/1903	45/1912	-1/1903
17	71/1930	27/1903	46/1912	0/1894
18	68/1981	25/1897	41/1899	+1/1917
19	72/1965	26/1990	39/1930	-7/1990
20	72/1982	26/1990	46/1901	-6/1990
21	74/1965	22/1897	45/1968	0/1897
22	73/2002	20/1897	45/1904	-12/1897
23	71/1995	19/1897	41/1895	-11/1897
24	71/1986,95	21/1897	42/1957	-3/1897
25	73/1963	30/1897,1996	40/1989	+4/1897
26	74/1888	17/1962	43/1994	-10/1962
27	74/1986	24/1890,1962	47/1976	-12/1962
28	<b>76/1888 #</b>	29/1890	47/1910	-7/1955
29	68/1968	40/1944	35/1892,1976	+9/1948

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **76** on the 28<sup>th</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **-16** on the 7<sup>th</sup>

**DAILY TEMPERATURE RECORDS FOR**

**MARCH**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	72/1934	28/1953	43/1992	3/1971
02	76/1921	26/1896	44/1904	11/1971
03	71/1910,31	32/1902	42/1909	5/1951
04	74/1925	<b>23/1894</b>	42/1921,57	7/1902
05	79/1972	33/1918	46/1929	0/1971
06	75/1972	32/1918	43/1989	11/1971
07	72/1979	32/1897	50/1899	4/1998
08	79/1972	36/1897,1936	44/1954	1/1964
09	79/1916	34/1890	50/1989	13/1935
10	74/1997	30/1901	51/1989	14/1935
11	76/1916	30/1901	42/1903	11/1948
12	75/1888	33/1897	45/1889	7/1922
13	76/1888	35/1898	45/1993	13/1893,1907,54
14	80/1994	30/1944	44/1993	5/1944
15	76/1934	32/1898	43/1994	11/1944
16	76/1916	32/1906	49/1895	3/1952
17	78/1972	38/1898,1924	46/1936	9/1952
18	77/1947	36/1897	48/1904	-2/1945
19	77/1997	35/1894	46/1916	14/1970
20	81/2004	29/1897	44/2001	6/1952
21	80/2004	34/1897	45/1929	1/1952
22	77/2004	32/1898	49/2004	5/1952
23	76/1960	32/1929	46/2000	12/1898
24	75/1960	35/1904	45/2006	12/1902
25	78/1960	36/1936	<b>52/1893</b>	12/1902
26	77/1988	32/1899	43/1916	11/1902
27	75/1966,86	34/1975	46/1895	13/1902
28	76/1966	38/1891,1901,75	51/2001	11/1977
29	78/1966,2004	35/1897	47/2001	<b>-3/1897 \$</b>
30	82/1966	36/1905	47/1978,2004	15/1896,1897
31	<b>83/1966 #</b>	38/1982	44/1989	12/1905

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **83** on the 31<sup>st</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **-3** on the 29<sup>th</sup>

**DAILY TEMPERATURE RECORDS FOR**

**APRIL**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	88/1966	<b>32/1906</b>	48/1931	15/1970
02	83/1961	39/1928	49/1939	17/1963
03	86/1961	36/1918	48/1988	<b>13/1956 \$</b>
04	80/1959,60,2002	38/1921	45/1972	15/1945
05	82/1982,89	33/1929	42/1889,1995	17/1955,97
06	85/1989	38/1929	45/1902	19/1929,55,97
07	85/1989	38/1975	48/1894	<b>13/1953 \$</b>
08	82/1989	36/1950	47/1889	17/1948
09	83/1989	35/1927	47/1899,1942	15/1953,76
10	83/1989	41/1893,1903	51/1992	17/1927
11	84/1888	38/1922	45/1915,90	18/1954,55
12	86/1888	41/1922	47/1992,2000	18/1948,53,70
13	88/1888	43/1972	51/1937	<b>13/1945 \$</b>
14	85/1888	40/1917	49/1937	15/1896
15	83/1936,47,90	38/1917	51/1925	14/1896
16	83/1947,87	39/1896,1922	50/1899	17/1896
17	83/1962	40/1933	55/1994	14/1944
18	83/1989	39/2002	50/1990	18/1968
19	83/1888	40/1896,1904	49/1900,02,89	20/1955
20	86/1888	35/1963	51/1965,89	16/1896
21	86/1888	43/1923	52/1936,97	14/1896,1963
22	84/1888	40/1896	48/1934	16/1896,1968
23	84/1910	36/1964	49/1949	19/1958,63
24	87/1946	43/1971	51/1981	18/1958
25	84/1927	41/1932	49/1999	19/1944
26	87/1987	42/1904,55	57/1910	21/1985
27	84/1987,2004	39/1894	56/1926	17/1955
28	84/1992	43/1942	48/1980	20/1968
29	86/1981	44/1913	<b>58/1992</b>	21/1975
30	<b>89/1981 #</b>	35/1915	52/1959	20/1962

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **89** on the 30<sup>th</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **13** on the 3<sup>rd</sup>, 7<sup>th</sup>, and 13<sup>th</sup>

## DAILY TEMPERATURE RECORDS FOR

# MAY

### FOR RENO/TAHOE INTERNATIONAL AIRPORT

	HIGHEST MAX/YEAR(S)	LOWEST MAX/YEAR(S)	HIGHEST MIN/YEAR(S)	LOWEST MIN/YEAR(S)
01	90/1947	44/1915	49/1908	19/1973
02	88/2004	<b>39/1938</b>	52/1940	18/1964
03	89/2004	43/1964	53/1925	20/1965
04	87/1992	47/1892	52/2005	24/1959
05	87/1947,89,90,92	44/1933	62/2004	22/1960
06	87/1987,89	42/1950	56/2004	19/1896
07	89/1954	<b>39/1896</b>	58/1989	20/1950
08	88/2001	47/1892,1933	54/1989	24/1943
09	87/2001	40/1896	54/1910	17/1896
10	88/1934	<b>39/1896</b>	53/1990	<b>16/1896 \$</b>
11	90/2001	46/1942	53/1987	23/1953
12	89/1959	47/1892	54/2001	24/1943,53
13	97/1976	49/1951	56/2001	24/1943,61
14	90/1987	49/1955,62	53/1996	25/1968
15	92/1927	45/1894	58/2005	26/1968
16	95/1970	47/1977	56/2006	25/1943
17	90/1954,70,73,2006	47/1893	57/2006	26/1978
18	94/1954	46/1948	60/2006	19/1974
19	93/1954	51/1908	56/2005	23/1960
20	89/1966,79	49/1948	55/1929	24/1974
21	94/1967	45/1971	54/1942	28/1893
22	95/1967	50/1907,12	56/2000	19/1960
23	94/2001	47/1980	59/2000	26/1960,68
24	94/2001	47/1916	62/2000	27/1968
25	92/1943,2001	50/1917	57/1924	26/1978
26	91/1949,66,74,83	49/1929	57/2001	25/1899
27	95/2003	52/1971	57/1928	30/1893
28	97/2003	48/1895	59/1937,2003	31/1895,1977,82
29	96/1986	52/1988	<b>63/2003</b>	28/1895
30	96/1986	46/1921	<b>63/2003</b>	29/1979
31	<b>98/1910 #</b>	51/1967	59/1986	30/1951

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **98** on the 31<sup>st</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **16** on the 10<sup>th</sup>



**DAILY TEMPERATURE RECORDS FOR**

**JUNE**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	93/1992	50/1971	60/2001	30/1955
02	96/1970	52/1908	60/2006	29/1966,71
03	95/1970	50/1999	59/1992	30/1890
04	94/1970,77	57/1925,48	59/1899,2006	30/1962
05	99/1977	52/1906,93	60/2000	32/1954,62
06	95/1977	51/1993	61/1977	<b>25/1954 \$</b>
07	96/1955	53/1914	64/1926	32/1906,46,62
08	98/1955	53/1964	69/1902	27/1950
09	98/1955	57/1892,1954	67/1902	30/1892
10	96/1918	51/1894	55/1918,23,55	28/1892
11	99/1940	52/1894	60/1918	32/1892
12	99/1940	51/1907,58	63/1918	27/1952
13	101/1940	<b>42/1907</b>	61/1897	30/1923,52,53
14	101/1940	53/1907	59/1933	33/1907
15	101/1940	51/1897	60/1933	30/1945
16	<b>104/1940 #</b>	53/1929	60/1940,41	31/1944,45
17	100/1940	55/1965	62/1940	33/1897,1939
18	101/1985	56/1909	66/2003	33/1973
19	99/1961	55/1938	63/1940	33/1978
20	101/1961	63/1916	63/1918,88	33/1974
21	100/2001	60/1912	66/1999	31/1960
22	100/1961,70	48/1912	59/1936,99	31/1943
23	99/1981,2006	61/1911	64/2006	31/1943
24	103/1988	58/1975	62/1926,88	32/1943
25	102/2006	52/1996	64/2006	31/1943
26	100/1968	58/1913	67/2006	29/1974
27	100/1937	62/1941	72/1899	32/1974
28	99/1956	61/1991	<b>75/1899</b>	35/1969,75
29	100/1924,72	61/1982	<b>75/1899</b>	29/1963
30	100/1932,50,72	63/1997	72/1899	34/1952,63

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **104** on the 16<sup>th</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **25** on the 6<sup>th</sup>

## DAILY TEMPERATURE RECORDS FOR

# JULY

### FOR RENO/TAHOE INTERNATIONAL AIRPORT

	HIGHEST MAX/YEAR(S)	LOWEST MAX/YEAR(S)	HIGHEST MIN/YEAR(S)	LOWEST MIN/YEAR(S)
01	100/1967,72,2002	67/1935	64/1932	<b>33/1976 \$</b>
02	102/2001	59/1902	65/1934	35/1902,63,75
03	101/1937	62/1902	64/2001	35/1966
04	102/1991	68/1902	66/2001	35/1963
05	100/1970	62/1909	69/2001	35/1955
06	100/1945,2004	67/1903,15	67/1936	34/1961
07	100/1964	62/1897	68/2001,04	36/1903
08	99/1985	67/1974	64/1896	38/1959,65,79,83
09	102/2002	<b>57/1974</b>	65/1924	36/1944
10	<b>108/2002 #</b>	65/1974	64/1939,2002	<b>33/1965 \$</b>
11	<b>108/2002 #</b>	66/1888	66/2002	<b>33/1960,74 \$</b>
12	104/2005	71/1995	74/2002	36/1965
13	102/1972	73/1932	66/1935,99	35/1981
14	103/1972	77/1907	69/2005	37/1966
15	103/1970,2005	67/1904	71/2005	38/1966
16	104/2005	75/1967	68/1930	38/1966,74
17	104/1998	64/1987	67/2004	39/1966,74
18	104/2006	63/1987	70/2006	38/1966,83
19	105/1931	72/1922	74/2006	37/1967
20	106/1931	73/1972	73/2003	37/1983
21	104/2003	68/1979	71/2005	39/1967
22	104/2003	73/1897	73/1998	37/1987
23	103/1942	70/1913	<b>77/2006</b>	38/1947,65
24	102/1928	77/1918	73/2006	38/1947
25	104/1980	68/1946	72/2006	38/1947
26	104/1945,80	74/1909	69/1931	39/1966,67
27	103/1945,80	64/1941	69/2003	39/1965
28	102/1971	78/1915,16,41	69/1931	38/1965
29	103/1943	69/1896	67/1929,68	39/1896,1948
30	104/2003	76/1915	69/1994	36/1942
31	103/2000	77/1976	70/1901	37/1964

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **108** on the 10<sup>th</sup> and 11<sup>th</sup> (all-time record high)

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **33** on the 1<sup>st</sup>, 10<sup>th</sup>, and 11<sup>th</sup>

**DAILY TEMPERATURE RECORDS FOR**

**AUGUST**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	103/2000	78/1888,1918,76	69/1908	36/1942
02	101/1946	74/2003	65/2000	37/1956,62,81
03	102/1946	76/1896,1976	65/2006	37/1956,81
04	102/1978	76/1976	67/1978	36/1963
05	102/1990	73/1891	65/1988,2006	38/1950
06	<b>105/1983 #</b>	68/1891,1999	66/1890	37/1891,1954,57
07	102/1990	75/1989	67/2005	35/1975
08	103/1972	75/1989	63/1990	38/1944
09	103/1969	71/1907	67/1936	35/1895
10	103/1970	72/1999	66/1965	30/1962
11	<b>105/1940 #</b>	67/1925	61/1939	35/1962
12	102/1933,44,70	75/1931	<b>72/1992</b>	34/1962
13	103/1933,98	73/1899	71/2004	36/1962
14	102/1920,33,2002	64/1976	68/1898	33/1974
15	102/1933	65/1976	66/1992	35/1954
16	100/2001	69/1918	<b>72/1933</b>	35/1976
17	99/1942,2001	66/1916	61/1933	35/1968
18	99/1946,50,2003	63/1976	63/1896	33/1978
19	99/2003	61/1975	64/1897,2003	34/1974
20	99/1919	66/1968	66/1939	36/1963,74
21	100/1982	64/1968,75	63/1939	34/1968
22	101/1982	65/1960	64/1995	29/1968
23	98/1931,69	71/1904	63/2006	30/1960
24	98/1985	74/1989	65/1897	33/1944,62
25	99/1924	64/1920	61/1931	31/1963
26	99/1924	<b>58/1920</b>	67/2003	33/1960
27	100/1924	60/1895	62/1935	34/1960,66
28	99/2001	62/1895	59/1924,39,82	28/1962
29	100/1915,98	66/1895,1942,53	65/1936	<b>24/1962 \$</b>
30	99/1950	63/1953	63/2000	31/1962
31	100/1976	48/1907	61/1919	31/1966

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **105** on the 6<sup>th</sup> and 11<sup>th</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **24** on the 29<sup>th</sup>

**DAILY TEMPERATURE RECORDS FOR**

**SEPTEMBER**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	99/1950	64/1964	61/1915	32/1960,64,66
02	<b>101/1950 #</b>	64/1912,2000	57/1988	29/1964
03	100/1988	55/1912	58/1930	31/1971
04	100/1988	59/1912	65/1931	31/1961
05	98/1955,88	64/1970	65/1998	33/1893,1964
06	96/1944,88	61/1893	62/1998	31/1964
07	95/1923,44,57,79,88	61/1912	61/1998	33/1901,60,64
08	96/1944	57/1927	58/1896	31/1966
09	96/1944,93	52/1897	58/1898,1975	30/1962
10	97/1944,48,90,93	52/1897	57/1939	33/1927,62
11	96/1944,45,48	57/1952	60/1904	29/1982
12	95/1945,83	53/1897	60/1888	26/1972
13	96/1947,71	55/1939	59/1981	29/1894,1972
14	96/1937	61/1906	55/1990	26/1970
15	95/1947,83	<b>46/1982</b>	58/1998	28/1970
16	95/1983	56/1908	57/1937	28/1970
17	96/1929	55/1965	58/1920,32	23/1965
18	93/1929,91	52/1989	<b>67/1899</b>	<b>20/1965 \$</b>
19	94/1991	56/1896	57/1934	<b>20/1965 \$</b>
20	92/1943,91	55/1895	57/1939	24/1965
21	90/1935,43,49, 74,87	50/1895	60/2000	24/1895
22	91/1943,74,87,92, 2001,02,03	51/1923	56/1935	23/1968
23	93/2003	52/1958	58/1992	26/1895
24	94/2003	51/1934	54/1939	21/1958
25	94/1964	55/1900,48	57/1894	25/1972
26	91/1963	52/1923	57/1888	23/1970
27	92/2003	54/1982,86	56/1905	25/1945
28	94/2003	53/1905	56/1927	25/1959
29	91/1963	48/1982	52/1892	23/1965
30	92/1980	50/1930,71	54/1888	21/1950

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **101** on the 2<sup>nd</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **20** on the 18<sup>th</sup> and 19<sup>th</sup>

## DAILY TEMPERATURE RECORDS FOR

# OCTOBER

### FOR RENO/TAHOE INTERNATIONAL AIRPORT

	HIGHEST MAX/YEAR(S)	LOWEST MAX/YEAR(S)	HIGHEST MIN/YEAR(S)	LOWEST MIN/YEAR(S)
01	<b>91/1980 #</b>	48/1891,1984	56/1889,2003	21/1950
02	90/1963	44/1908	51/1918	22/1971
03	90/1980	44/1916	51/1899,1923	20/1973
04	89/1987	40/1916	51/1993	20/1973
05	89/1979,80	43/1912	53/1918	20/1969
06	88/1942,80,91,96	43/1916	53/1905	18/1969
07	87/1915,64,80,96	47/1949	52/1930	22/1962
08	<b>91/1965 #</b>	45/1890	<b>62/1933</b>	21/1968
09	90/1996	42/1890	50/1933	19/1961
10	87/1917	44/1924	57/1962	16/1973
11	86/1991	40/1928	60/1962	21/1973
12	86/1991,92	44/1899	52/1991	19/1969
13	87/1971	39/1899	46/1937,93	22/1942
14	86/1940	43/1897,1899	50/1908	18/1960
15	89/1991	44/1969	50/1979	21/1968
16	85/1991	35/1971	48/1936	18/1965
17	87/1973	38/1971	47/1888,1907	16/1893
18	86/1988	40/1949	55/1900	19/1946,66
19	85/1921	42/1920	50/1899	19/1966
20	85/2003	41/1957	57/1961	18/1996
21	84/2003	44/1920	51/1940	18/1996
22	83/2003	45/1935	54/1982	14/1961
23	83/1937	41/1921	50/1940	16/1961
24	89/1959	43/1919	49/1907,27	18/1945,56
25	83/1959	43/1939	48/1927	18/1971
26	82/1959	40/1996	47/1924	16/1939
27	84/1937	46/1991	47/1992	16/1960
28	82/1937	<b>34/1971</b>	49/1950	14/1948
29	79/1937	36/1971	48/1933	<b>8/1971 \$</b>
30	78/1965	39/1935	46/1983	13/1972
31	76/1931,65	40/1978	54/1948	13/1946,61

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **91** on the 1<sup>st</sup> and 8<sup>th</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **8** on the 29<sup>th</sup>

**DAILY TEMPERATURE RECORDS FOR**

**NOVEMBER**

**FOR RENO/TAHOE INTERNATIONAL AIRPORT**

	<b>HIGHEST MAX/YEAR(S)</b>	<b>LOWEST MAX/YEAR(S)</b>	<b>HIGHEST MIN/YEAR(S)</b>	<b>LOWEST MIN/YEAR(S)</b>
01	<b>77/1960 #</b>	38/1935	48/1992	15/1953,71
02	76/1916	39/1922	48/1988	13/1961
03	<b>77/1931,49 #</b>	27/1935	45/1988	9/1935
04	76/1914,45,69	<b>22/1935</b>	48/1977	7/1935
05	<b>77/1980 #</b>	28/1935	46/1891	9/1935
06	75/1931,91	36/1920	47/1912,73	9/1961
07	76/1991	35/1920	48/1902	12/1961
08	73/1958	38/1920	50/1902	14/1961,71
09	73/1913,90	36/1915,82	44/1927,95	12/1946,48,75
10	74/1941	33/1985	51/1973	12/1985
11	75/1995	29/1985	49/1973	8/1985
12	73/1990	27/1985	46/1903,84	5/1938
13	75/1990	33/1916,78,85	49/1903	7/1898
14	74/1906	29/1985	48/1941	4/1985
15	69/1941	30/1909,85	44/1934	7/1958,85
16	69/1995	28/1909,58,64	46/1983	5/1909
17	73/1995	31/1958,64	46/1920	<b>1/1958 \$</b>
18	69/1897,1995	33/1985,94	50/1898,1996	8/1964,75
19	72/1932	31/1985	45/1937	3/1994
20	72/1932	32/1898,1905	48/1909,37	7/1977
21	74/1924	26/1931	46/1909	7/1979
22	69/1915	29/1931	49/1909	7/1975
23	69/1970	34/1906	<b>54/1910</b>	9/1947
24	75/1970	38/1908,93	46/1909	7/1938
25	75/1970	35/1982	43/1960	9/1952
26	69/1949	30/1896	43/1920	7/1896
27	70/1946	26/1919	39/1899	7/1948
28	69/1949	29/2004	44/1986	6/1919
29	68/1940,95	25/2004	46/1917,80	4/2004
30	68/1940	29/2004	44/1921	8/1922,2004

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **77** on the 1<sup>st</sup>, 3<sup>rd</sup>, and 5<sup>th</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **1** on the 17<sup>th</sup>

## DAILY TEMPERATURE RECORDS FOR

# DECEMBER

### FOR RENO/TAHOE INTERNATIONAL AIRPORT

	HIGHEST MAX/YEAR(S)	LOWEST MAX/YEAR(S)	HIGHEST MIN/YEAR(S)	LOWEST MIN/YEAR(S)
01	66/1903	34/1982	48/1893	+9/1976
02	68/1977	32/1919	49/1988	+5/1922
03	<b>71/1940 #</b>	31/1909	42/1916	+6/1948
04	69/1958	29/1919	45/1902,95	-2/1972
05	67/1958	26/1972	42/1902,95	-12/1972
06	67/1939	20/1919	39/1895,1918,39	+6/1891
07	65/1940	26/1978	42/1950	+4/1956
08	66/1915,89	19/1972	50/1996	-12/1972
09	65/1939,79	<b>6/1972</b>	<b>55/1939</b>	<b>-16/1972 \$</b>
10	67/1993	12/1972	48/1937	-11/1972
11	63/1958	9/1972	45/1956	-15/1972
12	69/1921	13/1932	44/1929	-5/1932
13	70/1969	18/1932	45/2002	-7/1932
14	67/1969	12/1972	44/1929	-6/1932
15	65/1962	21/1972	49/1941	0/1932,48,67
16	70/1939	26/1948	41/1962	+4/1931
17	65/1939	28/1908,70	35/1929	+5/1965
18	64/1917	24/1895,1970	40/1941	-1/1908
19	67/1917	26/1924,67	44/1916	-3/1978
20	63/2005	16/1978	42/1955,69	-7/1978
21	63/2000	10/1990	47/1964	-8/1990
22	60/1915,2005	11/1990	50/1964	-13/1990
23	62/2005	13/1990	46/1964	-9/1990
24	67/1902	16/1990	43/1964	-11/1990
25	68/1902	23/1970	38/1906,64	0/1891,1924
26	63/1928,75	24/1970	43/1917	-1/1988
27	65/1980	20/1988	41/1973	-4/1988
28	63/1998	24/1894	47/1945	0/1988
29	62/1917	15/1889	42/1933	-7/1889
30	62/1917	18/1916	44/1995	-6/1911
31	62/1945	20/1891	52/1996	-7/1891

# INDICATES HIGHEST MAXIMUM FOR THE MONTH: **71** on the 3<sup>rd</sup>

\$ INDICATES LOWEST MINIMUM FOR THE MONTH: **-16** on the 9<sup>th</sup>

### Highest daily maximum temperatures reported

Temp	Date	Temp	Date	Temp	Date	Temp	Date
108	7/11/2002	102	8/14/1920	101	7/11/1917	101	8/22/1982
108	7/12/2002	102	7/14/1925	101	7/13/1917	101	7/30/1983
		102	7/24/1928	101	7/28/1923	101	8/ 5/1983
106	7/20/1931	102	7/26/1928	101	7/17/1925	101	7/ 4/1984
		102	8/13/1929	101	7/25/1928	101	6/18/1985
105	7/19/1931	102	7/18/1931	101	7/14/1933	101	7/17/1988
105	8/ 6/1983	102	7/21/1931	101	7/23/1933	101	7/20/1988
		102	7/22/1931	101	7/ 3/1937	101	7/21/1994
104	7/26/1945	102	7/23/1931	101	7/30/1943	101	7/28/1994
104	7/25/1980	102	8/12/1933	101	7/25/1945	101	7/16/1998
104	7/26/1980	102	8/14/1933	101	2/ 2/1946	101	7/17/1998
104	7/17/1998	102	8/15/1933	101	9/ 2/1950	101	8/ 4/1998
104	7/21/2003	102	7/19/1936	101	7/16/1959	101	7/30/2000
104	7/22/2003	102	8/12/1944	101	7/20/1960	101	7/12/2002
104	7/30/2003	102	7/27/1943	101	6/20/1961	101	8/15/2002
104	7/12/2005	102	8/12/1944	101	8/ 3/1961	101	7/ 9/2003
104	7/16/2005	102	7/20/1946	101	7/11/1964	101	7/29/2003
104	7/18/2006	102	8/ 3/1946	101	7/ 2/1967	101	8/11/2004
		102	8/ 9/1946	101	7/20/1969	101	7/13/2005
103	8/13/1933	102	7/17/1959	101	7/ 4/1970	101	7/14/2005
103	7/29/1943	102	7/19/1959	101	8/13/1970	101	7/18/2005
103	7/27/1945	102	7/18/1960	101	8/15/1970	101	7/19/2005
103	8/ 9/1969	102	7/19/1960	101	7/31/1971	101	7/21/2005
103	7/15/1970	102	7/18/1970	101	7/15/1972	101	7/24/2006
103	8/10/1970	102	7/19/1970	101	8/ 6/1972	101	7/25/2006
103	7/14/1972	102	8/11/1970	101	8/ 7/1972	101	7/26/2006
103	8/ 8/1972	102	8/12/1970	101	7/25/1975		
103	7/26/1975	102	7/28/1971	101	7/27/1975		
103	7/22/1980	102	7/13/1972	101	7/25/1978		
103	7/27/1980	102	7/16/1972	101	8/ 3/1978		
103	6/24/1988	102	8/ 4/1978	101	7/16/1979		
103	7/18/1988	102	8/ 8/1978	101	7/31/1979		
103	7/21/1988	102	7/18/1979	101	8/ 3/1979		
103	8/ 6/1990	102	7/21/1980	101	7/23/1980		
103	8/13/1998	102	8/ 8/1981	101	7/24/1980		
103	7/31/2000	102	8/ 5/1990	101	8/10/1980		
103	8/ 1/2000	102	8/ 7/1990	101	8/11/1980		
103	7/20/2003	102	7/ 4/1991				
103	7/15/2005	102	8/11/1992				
103	7/17/2006	102	8/ 6/1997				
		102	7/18/1998				
		102	7/ 2/2001				
		102	7/ 9/2002				
		102	8/14/2002				
		102	7/17/2005				
		102	7/20/2005				
		102	6/25/2006				
		102	7/22/2006				



### Lowest daily maximum temperatures reported

Temp	Date	Temp	Date	Temp	Date
+6	1/ 7/1890	15	12/29/1889	19	2/23/1897
+6	1/ 8/1937	15	2/13/1903	19	1/29/1903
+6	12/ 9/1972			19	2/ 3/1903
		16	1/15/1888	19	2/14/1903
7	1/ 8/1890	16	1/18/1922	19	1/18/1952
7	1/ 9/1937	16	1/19/1922	19	1/23/1962
7	1/20/1937	16	12/20/1978	19	1/ 4/1972
		16	12/24/1990	19	12/ 8/1972
9	12/11/1972			19	12/12/1972
		17	1/ 5/1913	19	12/13/1972
10	1/14/1888	17	1/16/1917	19	1/ 7/1982
10	1/21/1937	17	1/10/1937	19	1/12/1993
10	12/21/1990	17	2/26/1962		
		17	1/ 1/1965	20	12/31/1891
11	1/ 6/1890	17	1/ 3/1971	20	2/22/1897
11	12/22/1990	17	1/ 4/1971	20	1/11/1898
		17	1/ 9/1974	20	1/28/1902
12	2/ 6/1903	17	2/ 8/1989	20	2/ 2/1903
12	12/10/1972	17	1/13/1997	20	2/ 4/1903
12	12/14/1972	17	12/21/1998	20	2/15/1903
				20	1/30/1916
13	2/ 5/1903	18	2/ 9/1901	20	12/ 6/1919
13	12/12/1932	18	1/31/1916	20	2/10/1933
13	12/23/1990	18	12/30/1916	20	1/25/1949
		18	1/17/1917	20	1/ 5/1971
14	1/22/1962	18	12/13/1932	20	12/27/1988
14	2/ 5/1989	18	1/ 2/1942	20	1/11/1993
14	2/ 6/1989	18	1/10/1949	20	12/22/1998
14	2/ 7/1989	18	1/21/1962		
		18	12/20/1990		

## Lowest daily minimum temperatures reported

Temp	Date	Temp	Date	Temp	Date	Temp	Date
-19	1/ 8/1890	-8	1/ 6/1890	-4	1/18/1888	-2	2/24/1894
		-8	2/ 3/1903	-4	1/19/1890	-2	2/25/1894
-18	1/ 7/1890	-8	1/16/1949	-4	12/20/1897	-2	12/21/1897
-18	1/ 9/1890	-8	1/15/1950	-4	1/28/1898	-2	1/ 8/1898
		-8	2/ 1/1956	-4	2/13/1903	-2	1/29/1898
-17	1/21/1916	-8	1/ 4/1972	-4	2/15/1903	-2	2/ 5/1903
		-8	1/ 2/1975	-4	1/18/1910	-2	3/18/1945
-16	1/25/1949	-8	12/21/1990	-4	2/10/1923	-2	2/ 7/1948
-16	12/ 9/1972			-4	1/ 5/1949	-2	1/23/1949
-16	2/ 7/1989	-7	12/29/1889	-4	1/10/1949	-2	2/ 1/1949
		-7	1/27/1890	-4	1/18/1949	-2	1/17/1952
-15	1/26/1949	-7	12/31/1891	-4	1/21/1949	-2	12/10/1961
-15	12/11/1972	-7	1/ 6/1894	-4	1/28/1949	-2	12/ 4/1972
-15	2/ 6/1989	-7	12/13/1932	-4	2/ 8/1949	-2	12/12/1972
		-7	1/ 4/1949	-4	1/19/1952	-2	12/13/1972
-13	1/14/1888	-7	1/ 9/1949	-4	1/ 1/1965	-2	1/14/1997
-13	1/31/1916	-7	1/17/1949	-4	1/ 2/1971	-2	12/21/1998
-13	12/22/1990	-7	1/29/1949	-4	1/ 5/1973		
		-7	1/31/1949	-4	12/31/1974	-1	12/22/1897
-12	1/15/1888	-7	2/28/1955	-4	1/ 3/1975	-1	2/12/1901
-12	2/22/1897	-7	1/22/1962	-4	12/31/1978	-1	1/26/1902
-12	1/20/1937	-7	1/ 2/1972	-4	12/27/1988	-1	2/16/1903
-12	1/15/1949	-7	12/20/1978			-1	12/18/1908
-12	2/27/1962	-7	2/19/1990	-3	2/24/1897	-1	1/27/1949
-12	12/ 5/1972			-3	3/29/1897	-1	2/14/1949
-12	12/ 8/1972	-6	1/10/1890	-3	1/27/1898	-1	1/13/1950
-12	2/ 8/1989	-6	1/11/1898	-3	2/10/1901	-1	1/30/1956
		-6	2/11/1901	-3	1/29/1903	-1	1/31/1956
-11	1/16/1888	-6	2/14/1903	-3	2/ 9/1929	-1	2/ 3/1956
-11	2/23/1897	-6	1/ 5/1910	-3	1/ 3/1949	-1	1/13/1963
-11	2/ 6/1903	-6	12/30/1911	-3	1/12/1950	-1	1/ 7/1968
-11	1/ 3/1912	-6	12/14/1932	-3	1/20/1951	-1	12/30/1971
-11	1/12/1949	-6	1/24/1949	-3	12/30/1955	-1	1/ 4/1973
-11	1/ 3/1971	-6	1/24/1962	-3	1/ 9/1957	-1	12/30/1978
-11	12/10/1972	-6	1/ 4/1971	-3	1/ 2/1960	-1	12/26/1988
-11	12/24/1990	-6	2/20/1990	-3	12/21/1968	-1	12/29/1988
				-3	1/ 5/1972	-1	1/ 4/1993
-10	1/11/1949	-5	1/24/1898	-3	1/ 7/1973	-1	1/12/1993
-10	1/23/1962	-5	12/12/1932	-3	12/19/1978		
-10	2/26/1962	-5	12/14/1945	-3	1/ 3/1993		
-10	2/ 5/1989	-5	1/30/1949	-3	12/23/1998		
		-5	2/12/1949				
-9	1/22/1890	-5	2/13/1949				
-9	1/ 2/1942	-5	12/11/1949				
-9	2/ 2/1956	-5	1/31/1950				
-9	1/16/1960	-5	1/12/1963				
-9	12/11/1961	-5	1/ 5/1971				
-9	12/23/1990	-5	12/29/1974				
		-5	1/ 1/1975				

### Highest daily minimum temperatures reported

Temp	Date	Temp	Date	Temp	Date	Temp	Date
77	7/23/2006	68	8/14/1898	66	8/ 6/1890	65	8/24/1897
		68	7/16/1930	66	7/13/1935	65	6/26/1899
75	6/28/1899	68	8/ 1/2000	66	8/20/1939	65	8/ 4/1901
75	6/29/1899	68	7/ 7/2001	66	8/10/1965	65	7/ 9/1924
		68	7/21/2003	66	8/15/1992	65	9/ 4/1931
74	7/12/2002	68	7/30/2003	66	7/20/1994	65	6/30/1932
74	7/19/2006	68	7/ 7/2004	66	7/29/1994	65	7/ 2/1934
		68	7/28/2005	66	8/14/1998	65	8/29/1936
73	7/22/1998			66	6/21/1999	65	6/30/1980
73	7/20/2003	67	9/18/1899	66	7/13/1999	65	8/ 5/1988
73	7/24/2006	67	6/ 9/1902	66	7/ 4/2001	65	7/12/1990
		67	6/29/1904	66	7/11/2002	65	7/22/1994
72	6/27/1899	67	7/18/1925	66	7/14/2002	65	9/ 5/1998
72	6/30/1899	67	7/29/1929	66	6/18/2003	65	7/31/2000
72	8/16/1933	67	7/ 6/1936	66	7/18/2004	65	8/ 2/2000
72	8/12/1992	67	8/ 9/1936	66	7/19/2004	65	7/ 7/2002
72	7/19/2003	67	7/29/1968	66	7/12/2005	65	7/13/2002
72	7/23/2003	67	8/ 4/1978	66	7/22/2005	65	7/17/2002
72	7/24/2003	67	8/13/1991	66	7/16/2006	65	7/21/2002
72	7/25/2006	67	8/ 8/2001	66	7/17/2006	65	7/30/2002
		67	8/10/2001	66	7/22/2006	65	7/31/2003
71	7/23/1931	67	7/18/2003	66	7/26/2006	65	7/ 6/2004
71	7/15/2005	67	7/25/2003	66	7/28/2006	65	7/22/2004
71	7/18/2005	67	8/26/2003			65	7/23/2004
71	7/21/2005	67	7/17/2004			65	7/13/2005
		67	7/16/2005			65	8/ 6/2005
70	7/31/1901	67	8/ 7/2005			65	8/ 8/2005
70	8/13/2004	67	6/26/2006			65	8/ 9/2005
70	7/19/2005	67	7/27/2006			65	6/28/2006
70	7/18/2006					65	8/ 3/2006
70	7/21/2006					65	8/ 5/2006
69	6/ 8/1902						
69	8/ 1/1908						
69	7/26/1931						
69	7/28/1931						
69	7/20/1946						
69	7/31/1980						
69	7/30/1994						
69	7/23/1998						
69	7/ 5/2001						
69	7/22/2003						
69	7/27/2003						
69	7/24/2004						
69	7/14/2005						
69	7/17/2005						
69	7/20/2006						

## Comparisons of monthly average temperatures

### Coldest to Warmest Januaries

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
14.0	1949	30.8	1901	34.2	1983	37.7	1999
15.8	1937	30.9	1894	34.2	1997	37.8	1909
19.6	1890	30.9	1989	34.3	1958	37.9	2006
22.2	1898	31.0	1892	34.3	1990	38.0	1905
22.8	1916	31.5	1947	34.4	1915	38.0	1936
22.8	1917	31.6	1929	34.4	1943	38.0	1941
24.1	1922	31.6	1974	34.4	1992	38.2	1995
24.8	1910	31.6	1987	34.4	2002	38.2	1998
24.8	1955	31.7	1968	34.6	1906	38.7	2000
25.5	1972	31.8	1904	34.6	1928	39.6	1934
25.7	1993	31.8	1991	34.6	1940	39.8	1900
25.8	1957	31.9	1984	34.8	1921	40.3	1953
26.2	1952	32.1	1976	34.8	1931	40.3	1986
26.7	1962	32.3	1893	35.2	1912	43.1	2003
27.2	1888	32.3	1975	35.3	1954		
27.5	1960	32.3	1977	35.4	1914		
27.8	1930	32.5	1964	35.6	1908		
28.2	1907	32.6	1944	35.8	1927		
28.2	1963	32.8	1926	36.0	1948		
28.4	1973	33.0	1899	36.1	1981		
28.5	1942	33.0	1971	36.2	1939		
28.5	1982	33.0	1988	36.2	2004		
28.6	1891	33.0	2001	36.3	1918		
28.8	1895	33.1	1951	36.4	1938		
28.9	1979	33.2	1911	36.5	1959		
28.9	2005	33.2	1923	36.8	1896		
29.3	1889	33.2	1945	36.8	1925		
29.3	1950	33.4	1961	36.9	1920		
29.8	1932	33.4	1966	36.9	1980		
29.9	1913	33.6	1946	37.0	1967		
30.1	1902	33.6	1965	37.0	1969		
30.3	1933	33.7	1919	37.1	1978		
30.4	1897	33.8	1935	37.3	1970		
30.5	1924	34.1	1956	37.6	1996		
30.6	1985	34.2	1903	37.7	1994		

## Coldest to Warmest Februaries

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
20.1	1903	35.0	1918	38.6	2005	41.8	1992
27.6	1956	35.0	1976	38.7	2004	42.0	1934
27.8	1897	35.1	1944	38.8	1927	42.0	1947
28.7	1933	35.4	1892	38.8	1981	42.0	1970
29.2	1923	35.5	1953	38.9	1957	42.2	1895
30.0	1894	35.6	1937	39.0	1898	42.4	1930
30.0	1922	35.7	1952	39.0	1950	42.4	1968
30.2	1949	35.8	2001	39.2	2006	42.7	1888
30.3	1901	36.0	1936	39.4	1912	42.8	1986
30.4	1911	36.1	1960	39.5	1931	43.5	1924
30.8	1990	36.2	1974	39.5	1996	43.7	1991
31.1	1989	36.2	1998	39.6	1902	44.4	1963
31.2	1890	36.3	1889	39.6	1935	45.4	1907
31.9	1893	36.5	1905	39.7	1999	46.0	1995
31.9	1929	36.5	1951	39.8	1943		
32.1	1955	36.9	1971	39.9	1926		
32.2	1932	36.9	1979	39.9	1954		
32.5	1891	37.0	1908	40.0	1977		
32.5	1948	37.0	1985	40.1	1965		
32.8	1939	37.2	1915	40.2	1900		
33.2	1938	37.2	1945	40.2	1972		
33.6	1917	37.2	1984	40.2	1988		
33.9	1959	37.3	1909	40.3	1967		
34.1	1962	37.6	2003	40.3	1982		
34.1	1975	37.7	1973	40.4	1921		
34.2	1964	37.8	1914	40.4	1940		
34.2	1969	37.8	1928	40.6	1980		
34.3	1993	37.8	1997	40.7	1961		
34.4	1910	37.9	1896	40.9	2002		
34.6	1946	38.0	1904	41.0	1906		
34.8	1913	38.2	1920	41.0	1916		
34.8	1919	38.4	1978	41.2	1958		
34.8	1966	38.4	1987	41.3	2000		
34.9	1942	38.5	1994	41.4	1925		
35.0	1899	38.6	1983	41.8	1941		

## Coldest to Warmest Marches

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
32.2	1897	39.8	1896	42.7	2002	46.8	1914
33.6	1902	39.9	1991	42.8	1974	46.8	1926
34.0	1952	40.2	1893	42.9	1905	46.8	1997
35.5	1917	40.2	1949	43.0	1933	46.9	1916
36.3	1898	40.2	1982	43.2	1888	46.9	1992
36.4	1948	40.3	1953	43.2	1947	47.1	1972
37.0	1958	40.4	1918	43.2	1965	47.2	1978
37.3	1954	40.5	1895	43.3	1937	47.6	1910
37.4	1945	40.5	1903	43.3	1995	47.7	1986
37.7	1964	40.5	1904	43.4	1911	48.5	1993
37.9	1935	40.5	1963	43.4	1925	48.7	1994
37.9	1973	40.5	1983	43.4	1966	48.7	2001
38.1	1977	40.6	1906	43.4	1987	51.5	2004
38.2	1907	40.6	1913	43.9	1943	52.4	1934
38.3	1922	40.6	1946	43.9	1999		
38.3	1924	40.6	1967	44.1	1930		
38.3	1976	40.7	1969	44.1	1988		
38.4	1899	40.8	1942	44.2	1931		
38.4	1920	40.9	1971	44.3	1941		
38.4	1951	41.0	1919	44.3	1960		
38.4	1975	41.1	1923	44.3	1984		
38.5	1980	41.2	1908	44.4	1889		
38.6	1938	41.4	1956	44.8	1936		
38.7	1955	41.4	1970	44.9	1940		
38.7	1985	41.5	1892	45.0	1915		
38.8	1912	41.6	1961	45.0	1932		
39.0	1890	41.7	1981	45.2	1928		
39.1	2006	41.9	1927	45.3	1921		
39.2	1894	41.9	1979	45.3	1939		
39.2	1901	42.2	1996	45.7	1990		
39.2	1950	42.2	1998	45.7	2000		
39.4	1909	42.4	1929	46.2	2005		
39.6	1891	42.4	1957	46.4	1989		
39.6	1944	42.4	1968	46.5	1900		
39.6	1962	42.6	1959	46.5	2003		

## Warmest to Coldest ApriIs

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
55.8	1992	49.6	1925	47.0	1961	44.0	1982
55.0	1934	49.6	1965	46.9	1979	43.8	1944
54.8	1939	49.4	1908	46.9	1991	43.8	1973
54.8	1987	49.4	1919	46.7	1999	43.8	1983
54.5	1990	49.2	1946	46.6	1913	43.7	1903
54.3	1926	49.2	1986	46.5	1974	43.6	1929
54.1	2000	49.1	2005	46.4	1891	43.4	1892
54.0	1888	49.0	1899	46.4	1921	43.2	1922
54.0	1989	49.0	1914	46.4	1937	42.0	1893
53.7	2004	49.0	1924	46.4	1941	41.8	1963
53.4	1910	49.0	1938	46.2	1904	41.4	1955
52.9	1994	48.8	1909	46.2	1923	40.3	1967
52.7	1985	48.7	1993	46.2	1956	39.9	1975
52.6	1936	48.5	1947	46.2	1972	37.2	1896
52.0	2002	48.5	1996	45.9	1971		
51.6	1889	48.4	1897	45.8	1902		
51.6	1949	48.4	1969	45.8	1911		
51.3	1977	48.2	1905	45.8	1984		
51.2	1930	48.2	1960	45.7	1957		
51.2	1988	48.1	1894	45.6	1917		
51.0	1931	48.0	1933	45.6	1945		
50.8	1907	48.0	1950	45.5	1920		
50.8	1943	47.8	1952	45.5	2003		
50.7	1898	47.8	2001	45.4	1953		
50.7	1981	47.7	1918	45.4	1998		
50.7	2006	47.7	1935	45.3	1964		
50.4	1954	47.6	1895	45.3	1978		
50.3	1959	47.6	1942	45.2	1900		
50.2	1940	47.5	1995	45.2	1901		
50.2	1966	47.4	1890	45.1	1958		
50.1	1915	47.4	1932	44.7	1948		
50.1	1916	47.4	1997	44.6	1968		
50.1	1962	47.2	1906	44.5	1976		
49.8	1980	47.1	1928	44.1	1970		
49.7	1951	47.0	1927	44.0	1912		

## Warmest to Coldest Mays

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
66.5	2001	57.6	1936	54.7	1949	51.1	1902
64.9	1992	57.5	1976	54.4	1901	50.9	1971
62.6	1924	57.5	1981	54.4	1980	50.9	1998
62.4	2006	57.4	1986	54.2	1975	50.6	1917
62.3	1928	57.2	1963	54.0	1903	50.4	1905
61.4	1940	57.1	1979	54.0	1950	50.2	1893
61.0	1931	57.0	1989	54.0	1965	50.1	1892
61.0	2004	56.9	1972	53.9	1895	50.1	1933
60.8	1919	56.6	1941	53.8	1951	50.0	1911
60.7	1966	56.6	1988	53.5	1912	49.7	1899
60.7	1997	56.5	1913	53.5	1957	48.7	1908
60.5	2000	56.4	1990	53.4	1907	48.5	1977
60.4	2003	56.3	1985	53.4	1927	47.8	1953
60.3	1947	56.2	1938	53.4	1945	46.0	1896
60.2	1934	56.0	1904	53.4	1955		
59.9	2005	56.0	1920	53.4	1961		
59.8	1994	55.7	1946	53.3	1983		
59.7	1910	55.6	1900	53.2	1921		
59.7	1987	55.6	1935	52.8	1891		
59.4	1984	55.4	1890	52.8	1918		
59.2	1937	55.4	1932	52.8	1968		
59.2	1958	55.4	1952	52.4	1909		
59.0	1954	55.3	1889	52.3	1906		
58.8	1914	55.2	1888	52.3	1978		
58.8	1973	55.2	1923	52.1	1915		
58.8	1999	55.1	1996	52.0	1916		
58.6	1939	55.0	1922	52.0	1948		
58.4	1897	55.0	1943	51.9	1964		
58.4	1993	55.0	1944	51.8	1942		
58.3	1925	55.0	1982	51.8	1991		
58.3	2002	55.0	1995	51.7	1898		
58.1	1969	54.9	1956	51.7	1960		
58.0	1970	54.9	1967	51.5	1962		
57.6	1926	54.9	1974	51.4	1930		
57.6	1929	54.8	1894	51.3	1959		



## Warmest to Coldest Junes

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
72.7	2006	64.9	1957	62.1	1995	59.1	1892
71.6	2003	64.6	1896	62.0	1969	59.0	1893
71.0	1918	64.6	1936	61.9	1942	59.0	1952
70.9	2000	64.5	1921	61.9	1993	59.0	1963
70.6	1940	64.4	1927	61.8	1912	58.9	1888
70.3	2004	64.3	1973	61.8	1916	58.4	1897
70.0	1926	64.3	2005	61.8	1929	58.0	1891
70.0	2002	64.1	1939	61.8	1941	57.7	1894
69.9	2001	64.0	1904	61.8	1982	57.6	1890
68.6	1977	64.0	1996	61.7	1898	57.4	1923
68.6	1985	63.9	1925	61.7	1956	57.4	1944
68.5	1994	63.9	1931	61.7	1962	57.2	1907
68.3	1981	63.9	1974	61.7	1984	57.2	1943
67.9	1987	63.9	1979	61.6	1914	57.0	1953
67.6	1889	63.8	1910	61.6	1915		
67.5	1986	63.8	1917	61.6	1978		
67.3	1999	63.8	1937	61.4	1958		
67.1	1935	63.7	1966	61.3	1964		
67.0	1988	63.6	1899	61.2	1920		
66.8	1932	63.6	1909	61.1	1976		
66.6	1961	63.4	1903	61.0	1895		
66.5	1992	63.3	1911	60.8	1905		
66.4	1902	63.3	1928	60.8	1980		
66.3	1989	63.3	1951	60.7	1901		
66.2	1922	63.3	1998	60.5	1913		
66.0	1900	62.9	1968	60.4	1945		
65.8	1930	62.8	1919	60.4	1946		
65.7	1990	62.8	1949	60.4	1950		
65.6	1924	62.6	1997	60.3	1947		
65.4	1938	62.5	1934	60.0	1954		
65.3	1959	62.5	1983	59.9	1967		
65.2	1933	62.5	1991	59.7	1971		
65.2	1960	62.4	1975	59.4	1908		
65.1	1970	62.3	1955	59.2	1906		
65.1	1972	62.2	1948	59.2	1965		

## Warmest to Coldest Julys

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
80.0	2005	72.6	1989	69.9	1979	67.3	1944
79.7	2006	72.5	1928	69.8	1918	67.2	1895
79.2	2003	72.4	1930	69.6	1899	67.2	1902
78.4	2002	72.2	1927	69.6	1967	67.2	1983
78.0	2004	72.1	1995	69.5	1977	67.0	1962
77.4	1931	71.7	1921	69.5	1978	67.0	1974
77.2	1994	71.6	1905	69.4	1894	66.8	1893
75.8	1933	71.6	1924	69.4	1935	66.7	1955
75.8	1998	71.6	1934	69.4	1954	66.6	1947
75.2	1988	71.6	1938	69.4	1961	66.3	1892
74.3	1936	71.5	1971	69.4	1986	66.1	1965
74.3	1991	71.4	1911	69.4	1997	65.7	1966
74.2	2001	71.3	1980	69.3	1946	65.1	1963
74.0	1917	71.2	1945	69.2	1915	65.0	1903
73.7	1990	71.0	1923	69.0	1920		
73.7	1999	70.9	1896	69.0	1976		
73.4	1906	70.8	1940	69.0	1993		
73.4	1929	70.8	1969	68.8	1949		
73.4	1984	70.8	1992	68.6	1888		
73.4	1985	70.7	1964	68.6	1889		
73.3	1908	70.7	1972	68.6	1890		
73.3	1922	70.6	1914	68.6	1913		
73.3	1925	70.5	1953	68.6	1956		
73.3	1942	70.4	1901	68.6	1957		
73.2	1919	70.4	1943	68.4	1891		
73.2	1937	70.4	1952	68.4	1916		
73.2	1939	70.4	1960	68.4	1958		
73.0	1968	70.4	1975	68.3	1904		
73.0	1970	70.4	1982	68.2	1987		
72.9	1926	70.2	1898	68.1	1907		
72.9	1959	70.2	1932	67.9	1981		
72.9	1996	70.1	1973	67.8	1912		
72.9	2000	70.0	1900	67.8	1948		
72.8	1910	70.0	1950	67.4	1909		
72.8	1941	70.0	1951	67.3	1897		

## Warmest to Coldest Augusts

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
76.1	2001	70.4	1906	68.4	1927	65.5	1900
75.6	2005	70.2	1904	68.1	1923	65.5	1960
74.9	1998	70.2	1920	68.1	1950	65.2	1948
74.3	2004	70.2	1928	68.0	1894	65.2	1949
74.3	1939	70.2	1932	68.0	1941	65.0	1943
74.2	1931	70.0	1913	67.7	1918	65.0	1957
74.1	2003	70.0	1993	67.7	1979	64.8	1956
73.7	1994	70.0	1996	67.7	1989	64.8	1975
73.6	1940	70.0	1999	67.6	1889	64.7	1963
73.6	2006	69.9	1946	67.6	1890	64.5	1968
73.5	1929	69.9	1983	67.6	1911	63.6	1954
73.4	2000	69.8	1910	67.6	1922	62.7	1899
73.3	1934	69.8	1977	67.6	1945	62.1	1976
73.2	1988	69.8	1984	67.6	1972	61.5	1962
73.0	1986	69.8	1997	67.5	1966		
72.7	1992	69.6	1897	67.5	1980		
72.7	1995	69.6	1909	67.4	1973		
72.6	1915	69.6	1921	67.3	1903		
72.5	2002	69.6	1926	67.3	1952		
72.3	1933	69.5	1955	67.2	1902		
72.2	1935	69.4	1898	67.2	1916		
72.0	1917	69.4	1981	67.2	1978		
72.0	1958	69.3	1905	67.1	1925		
71.5	1970	69.2	1901	66.9	1896		
71.5	1991	69.1	1961	66.9	1964		
71.4	1936	69.0	1891	66.8	1959		
71.3	1919	69.0	1930	66.5	1895		
71.3	1942	68.9	1908	66.5	1951		
71.3	1987	68.8	1969	66.3	1912		
71.2	1914	68.8	1982	66.1	1947		
71.1	1937	68.7	1924	66.0	1944		
71.1	1990	68.6	1888	65.8	1965		
71.0	1967	68.6	1892	65.7	1974		
70.8	1938	68.6	1893	65.6	1907		
70.7	1971	68.5	1985	65.6	1953		

## Warmest to Coldest Septembers

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
68.1	2003	63.0	1995	60.8	1962	57.4	1985
68.0	2001	62.9	1983	60.7	1977	57.2	1970
67.1	1935	62.8	1892	60.6	1921	57.1	1925
66.5	1888	62.8	2005	60.5	1914	57.0	1895
66.5	1932	62.7	1923	60.4	1930	57.0	1982
66.4	2002	62.6	1902	60.4	1942	56.9	1897
65.9	2004	62.6	1917	60.4	1948	56.6	1972
65.8	1991	62.6	1967	60.2	1931	56.5	1971
65.8	1999	62.6	1997	60.2	1940	56.3	1986
65.7	1998	62.4	1890	60.2	1945	55.9	1961
65.4	1922	62.3	1951	60.2	1958	55.8	1900
65.4	1990	62.1	1918	60.0	1903	55.2	1893
65.3	1993	62.0	1976	60.0	1996	54.9	1965
65.2	1938	61.9	1952	59.9	1955		
65.0	1987	61.9	1989	59.6	1908		
65.0	1994	61.8	1904	59.6	1968		
64.8	1992	61.8	1924	59.5	1919		
64.7	1981	61.7	1916	59.4	1950		
64.6	1937	61.6	1936	59.3	1946		
64.2	1899	61.5	1910	59.0	1891		
64.2	1975	61.5	1957	58.9	1896		
64.2	1979	61.4	1905	58.7	1907		
64.0	1943	61.4	1947	58.7	1966		
64.0	1953	61.4	1974	58.5	1973		
63.6	1913	61.3	1956	58.4	1894		
63.6	1933	61.2	1920	58.4	1912		
63.4	1928	61.2	1929	58.2	1926		
63.4	1934	61.2	1944	58.1	1964		
63.4	1969	61.0	1898	58.0	1901		
63.4	1988	61.0	1906	58.0	1941		
63.4	2000	61.0	1960	57.8	1927		
63.3	1963	60.9	1889	57.7	1954		
63.1	1984	60.9	1949	57.6	1978		
63.0	1939	60.8	1909	57.4	1911		
63.0	1980	60.8	1915	57.4	1959		

## Coldest to Warmest Octobers

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
45.0	1919	49.6	1966	52.2	1894	54.8	1931
45.3	1969	49.7	1961	52.2	1939	54.9	1993
45.4	1946	49.8	1925	52.2	1977	55.3	1992
45.8	1971	49.8	1998	52.3	1994	55.3	1964
46.2	1984	49.9	1935	52.4	1963	55.4	2005
46.6	1920	49.9	1996	52.4	1965	56.0	1917
46.8	1951	50.0	1911	52.4	1995	56.0	1999
46.8	1957	50.2	1889	52.6	1932	56.3	1987
46.9	1916	50.2	1943	52.6	1958	56.6	1991
46.9	1981	50.4	1985	52.6	2002	58.2	2001
46.9	1982	50.6	1924	52.6	2004	58.4	1988
47.3	1898	50.6	1938	52.8	1944	59.4	2003
47.3	1912	50.6	1968	53.1	1896	59.6	1933
47.4	1899	50.7	1902	53.2	1901		
47.6	1897	50.7	1955	53.2	1910		
47.7	1893	50.8	1930	53.3	1895		
47.7	1956	50.8	1948	53.3	1950		
47.8	1892	50.9	1980	53.4	1926		
47.8	1908	50.9	1986	53.4	1927		
47.8	1949	51.0	1967	53.5	1978		
48.0	1970	51.2	1962	53.6	1918		
48.5	1972	51.3	1976	53.6	1945		
48.6	1905	51.4	1913	53.8	1907		
48.9	1960	51.4	1989	53.9	1903		
49.1	1953	51.5	1922	53.9	1936		
49.2	1923	51.6	1891	54.0	1929		
49.2	1973	51.6	1909	54.0	1934		
49.3	1974	51.6	1942	54.0	1979		
49.4	1900	51.6	1947	54.1	1983		
49.5	1904	51.7	1888	54.2	1937		
49.5	1975	51.7	1928	54.2	1952		
49.5	1997	51.8	1906	54.6	1921		
49.6	1890	51.8	1914	54.7	1940		
49.6	1941	51.8	1959	54.7	1990		
49.6	1954	52.0	2000	54.8	1915		

## Coldest to Warmest Novembers

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
34.5	1952	39.6	1984	41.8	1989	44.9	1934
34.8	1985	39.8	1911	41.9	1897	45.0	1921
35.1	1994	39.9	1992	41.9	1977	45.0	1937
35.3	1935	40.0	1925	42.0	1913	45.0	1939
35.5	1947	40.0	1940	42.0	1942	45.4	1910
35.9	1975	40.0	2003	42.0	1997	45.4	1970
36.2	1982	40.1	1951	42.2	1928	45.4	2005
36.5	1961	40.1	1960	42.3	1907	45.5	1950
36.6	1957	40.2	1888	42.3	1953	45.6	1927
36.7	1905	40.2	1889	42.4	1912	46.4	1932
36.8	1922	40.2	1898	42.4	1976	46.4	1995
36.8	1956	40.2	1943	42.5	1915	46.7	1999
37.2	1978	40.2	1945	42.5	1981	47.8	1926
37.5	1971	40.2	1963	42.7	1908		
37.6	1916	40.3	2004	42.7	1967		
37.6	1938	40.4	1974	42.7	1988		
37.8	2000	40.4	1993	42.8	1973		
38.0	1895	40.6	1890	42.8	1998		
38.0	1946	40.7	1930	43.0	1891		
38.0	1964	40.8	1920	43.0	1899		
38.0	1972	40.8	1962	43.0	1904		
38.0	1979	40.8	1968	43.0	1986		
38.1	1944	40.9	1990	43.1	2002		
38.2	1948	41.0	1966	43.2	1894		
38.3	1893	41.1	1909	43.4	1914		
38.6	1931	41.2	1983	43.4	1991		
38.7	1958	41.3	1996	43.6	1900		
38.8	1896	41.4	1924	43.6	1923		
38.8	1902	41.4	1954	43.8	1901		
38.8	1906	41.6	1965	43.8	1933		
39.0	1969	41.7	1892	44.1	1941		
39.1	1918	41.8	1929	44.2	1949		
39.2	1919	41.8	1936	44.4	1903		
39.4	1955	41.8	1980	44.6	1917		
39.6	1959	41.8	1987	44.6	2001		

## Coldest to Warmest Decembers

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
24.9	1978	31.4	1930	34.9	1999	38.1	1995
25.1	1972	31.4	1968	35.0	1922	38.1	2003
25.8	1990	31.5	1899	35.0	2004	38.3	1973
26.6	1971	31.6	1949	35.1	1963	38.3	1977
26.8	1914	31.7	1961	35.2	1901	38.4	1996
27.0	1948	31.7	1998	35.2	1946	38.6	1950
28.0	1891	31.8	1927	35.2	1957	38.8	1983
28.3	1967	31.8	1928	35.3	1934	39.0	1981
28.8	1905	31.9	1987	35.3	1986	39.0	2005
29.0	1932	32.1	1918	35.5	1925	39.6	1933
29.1	1898	32.1	1960	35.5	1979	41.2	1917
29.2	1970	32.2	1941	35.6	1955	41.2	1939
29.4	1959	32.2	1954	35.7	1994	42.5	1929
29.6	1909	32.3	1982	35.9	1989		
29.8	1911	32.4	1892	36.0	1964		
29.9	1965	32.4	1947	36.1	1893		
30.0	1894	32.6	1924	36.1	1906		
30.1	1943	32.7	1953	36.2	1921		
30.4	1919	33.0	1890	36.2	1980		
30.5	1951	33.1	1903	36.3	1915		
30.5	1956	33.3	1936	36.4	1902		
30.5	1976	33.4	1944	36.5	1993		
30.6	1992	33.4	1945	36.5	2001		
30.7	1984	33.7	1991	36.6	1942		
30.8	1924	33.8	1913	36.7	1969		
31.0	1931	33.8	1926	36.8	1937		
31.0	1997	33.8	1935	36.9	2000		
31.1	1897	33.8	1975	37.0	1910		
31.1	1974	33.9	1962	37.0	1938		
31.2	1889	34.0	1904	37.3	1896		
31.2	1895	34.0	1912	37.4	1907		
31.2	1916	34.0	1920	37.5	2002		
31.2	1985	34.0	1952	37.7	1888		
31.2	1988	34.0	1966	37.7	1958		
31.4	1908	34.6	1900	37.8	1940		

## Warmest to Coldest Calendar Years

Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year	Avg. Temp.	Year
55.3	2003	51.2	1997	49.8	1967	48.3	1903
54.9	2001	51.1	1914	49.8	1973	48.3	1962
54.8	2004	51.1	1993	49.7	1954	48.3	1975
54.5	1934	51.0	1900	49.7	1968	48.2	1898
54.1	2002	51.0	1932	49.6	1905	48.0	1891
54.0	2000	51.0	1938	49.6	1908	48.0	1956
53.8	1994	51.0	1970	49.6	1961	48.0	1971
53.8	2005	51.0	1980	49.4	1945	47.9	1955
53.7	1992	50.9	1927	49.3	1946	47.8	1948
53.4	1939	50.9	1977	49.3	1951	47.7	1890
53.4	1999	50.8	1935	49.3	1960	47.7	1949
53.3	1940	50.8	1937	49.3	1963	48.5	1897
53.1	1926	50.7	1958	49.3	1978	47.4	1893
53.1	1995	50.6	1918	49.2	1901		
53.0	1988	50.6	1930	49.2	1953		
52.7	1986	50.6	1983	49.2	1965		
52.6	1931	50.5	1906	49.2	1974		
52.5	1936	50.4	1950	49.1	1896		
52.5	1987	50.4	1969	49.1	1902		
52.0	1910	50.4	1979	49.1	1912		
52.0	1981	50.3	1889	49.1	1923		
51.9	1921	50.3	1904	49.0	1916		
51.8	1928	50.3	1984	49.0	1964		
51.8	1991	50.2	1917	49.0	1972		
51.7	1933	50.2	1966	48.9	1895		
51.6	1941	50.1	1919	48.9	1899		
51.6	1990	50.1	1942	48.9	1922		
51.6	1996	50.1	1943	48.8	1976		
51.4	1915	50.0	1909	48.7	1957		
51.4	1925	50.0	1947	48.5	1911		
51.4	1989	50.0	1985	48.5	1944		
51.4	1998	49.9	1907	48.5	1982		
51.3	1929	49.9	1913	48.4	1892		
51.2	1888	49.9	1920	48.4	1894		
51.2	1924	49.8	1959	48.4	1952		



## Coldest to Warmest Autumns

$$\text{Autumn (seasonal) avg. temp.} = \frac{(\text{Sept. avg. temp.} + \text{Oct. avg. temp.} + \text{Nov. avg. temp.})}{3}$$

Avg. temp. Autumn		Avg. temp. Autumn		Avg. temp. Autumn		Avg. temp. Autumn	
46.6	1971	50.1	1986	51.4	1997	53.5	1993
46.7	1982	50.2	1952	51.5	1899	53.7	1990
47.1	1893	50.2	1970	51.5	1943	53.9	1995
47.4	1961	50.2	1973	51.6	1907	54.0	2002
47.5	1985	50.3	1896	51.6	1918	54.1	1934
47.6	1946	50.3	1968	51.6	1940	54.4	1917
47.7	1972	50.4	1889	51.6	1977	54.4	1987
47.9	1919	50.4	1974	51.7	1901	54.5	2005
48.3	1957	50.4	1996	51.7	1989	54.6	1937
48.6	1956	50.5	1906	51.8	1923	54.8	1988
48.7	1916	50.5	1958	51.8	1953	55.2	1932
48.8	1897	50.5	1964	51.9	1914	55.3	1991
48.9	1905	50.6	1930	51.9	1976	55.7	1933
49.0	1925	50.6	1941	51.9	1980	55.8	2003
49.1	1911	50.7	1902	52.0	1963	56.2	1999
49.2	1969	50.7	1944	52.1	1967	56.9	2001
49.4	1895	50.8	1892	52.1	1979		
49.4	1912	50.8	1935	52.3	1913		
49.4	1978	50.8	1994	52.3	1927		
49.5	1898	50.9	1890	52.3	1929		
49.5	1920	50.9	1962	52.4	1928		
49.5	1947	51.0	1949	52.4	1936		
49.6	1900	51.1	1938	52.7	1915		
49.6	1954	51.1	2000	52.7	1950		
49.6	1959	51.2	1891	52.7	1983		
49.6	1965	51.2	1909	52.8	1888		
49.6	1984	51.2	1922	52.8	1903		
49.7	1951	51.2	1931	52.8	1998		
49.8	1948	51.3	1894	52.9	2004		
49.8	1966	51.3	1924	53.1	1926		
49.9	1975	51.3	1942	53.3	1992		
50.0	1908	51.3	1945	53.4	1910		
50.0	1955	51.4	1904	53.4	1921		
50.0	1960	51.4	1981	53.4	1939		

## Coldest to Warmest Winters

(Dec. avg. temp. + Jan. avg. temp. + Feb. avg. temp)

Winter (seasonal) avg. temp. =

3

Avg. temp.	Winter	Avg. temp.	Winter	Avg. temp.	Winter	Avg. temp.	Winter
23.7	1948-49	32.8	1984-85	35.3	1938-39	37.5	1917-18
27.3	1889-90	32.9	1912-13	35.4	1960-61	37.6	1929-30
28.2	1936-37	33.0	1970-71	35.4	1973-74	37.6	1993-94
29.2	1916-17	33.3	1949-50	35.5	1908-09	37.7	1979-80
29.3	1932-33	33.4	1915-16	35.5	1923-24	37.7	2003-04
29.6	1909-10	33.5	1910-11	35.5	1937-38	37.9	1977-78
29.7	1954-55	33.5	1918-19	35.5	1962-63	38.1	1985-86
30.1	1921-22	33.5	1941-42	35.7	1913-14	38.3	1999-00
30.2	1902-03	33.6	1947-48	35.9	1935-36	38.4	1995-96
30.2	1978-79	33.6	1975-76	35.9	1981-82	38.7	1939-40
30.2	1992-93	33.7	1894-95	36.0	1953-54	38.7	1969-70
30.4	1972-73	33.7	1989-90	36.0	1958-59	38.7	2005-06
30.8	1897-98	33.8	1990-91	36.0	1983-84	39.2	1940-41
30.8	1951-52	33.9	1945-46	36.1	1925-26	39.4	2002-03
30.8	1961-62	33.9	1963-64	36.1	1926-27	40.0	1994-95
30.8	1971-72	34.1	1967-68	36.1	1950-51	40.4	1933-34
31.0	1931-32	34.2	1968-69	36.2	1904-05		
31.0	1959-60	34.2	2004-05	36.2	1934-35		
31.1	1988-89	34.3	1903-04	36.2	1946-47		
31.4	1890-91	34.3	1976-77	36.4	1920-21		
31.5	1891-92	34.4	1888-89	36.4	1998-99		
31.7	1956-57	34.6	1944-45	36.6	1906-07		
31.8	1896-97	34.7	1927-28	36.6	1924-25		
31.8	1928-29	34.8	1905-06	36.6	1952-53		
31.9	1900-01	34.8	1911-12	36.6	1964-65		
32.2	1892-93	35.0	1901-02	36.6	1991-92		
32.3	1893-94	35.0	1982-83	36.7	1907-08		
32.4	1898-99	35.0	1984-88	36.8	1996-97		
32.4	1955-56	35.1	1986-87	36.9	1942-43		
32.5	1922-23	35.1	1997-98	36.9	1957-58		
32.5	1974-75	35.2	1919-20	37.0	1980-81		
32.6	1943-44	35.2	1930-31	37.1	1966-67		
32.7	1965-66	35.2	2000-01	37.2	1899-00		
32.8	1914-15	35.3	1895-96	37.3	2001-02		

## Warmest to Coldest Springs

$$\text{Spring (seasonal) avg. temp.} = \frac{(\text{Mar. avg. temp.} + \text{Apr. avg. temp.} + \text{May avg. temp.})}{3}$$

Avg. temp. Spring		Avg. temp. Spring		Avg. temp. Spring		Avg. temp. Spring	
55.9	1934	49.9	1943	47.4	1927	45.9	1983
55.9	1992	49.8	1984	47.3	1890	45.7	1899
55.4	2004	49.8	1999	47.3	1895	45.7	1952
54.3	2001	49.7	1916	47.3	1951	45.5	1922
53.8	1994	49.6	1937	47.3	1961	45.5	1945
53.6	1910	49.3	1932	47.2	1905	45.4	1912
53.4	2000	49.2	1985	47.2	1957	45.3	1967
52.9	1926	49.1	1900	47.1	1935	45.0	1892
52.9	1939	49.1	1915	47.1	1950	45.0	1964
52.6	1987	49.1	1941	47.1	1958	44.5	1953
52.5	1989	49.1	1969	47.1	1962	44.5	1955
52.2	1940	48.9	1930	47.0	1918	44.4	1948
52.2	1990	48.9	1954	47.0	1920	44.2	1975
52.1	1931	48.9	1965	47.0	1933	44.1	1893
51.9	1993	48.8	1949	46.9	1909	43.9	1917
51.7	1936	48.6	1979	46.8	1973	43.5	1902
51.7	2005	48.6	1995	46.8	1976	41.0	1896
51.6	1997	48.6	1996	46.7	1906		
51.5	1914	48.5	1946	46.7	1942		
51.5	1928	48.3	1921	46.6	1968		
51.4	1966	48.3	1978	46.5	1963		
51.4	1986	48.1	1959	46.4	1908		
51.0	2002	48.1	1960	46.4	1911		
50.8	1888	48.1	1974	46.4	1982		
50.8	2003	47.9	1913	46.3	1891		
50.8	2006	47.9	1929	46.3	1897		
50.7	1947	47.9	1938	46.3	1901		
50.6	1988	47.8	1970	46.2	1898		
50.4	1889	47.6	1904	46.2	1991		
50.4	1919	47.6	1980	46.2	1998		
50.4	1925	47.5	1907	46.1	1903		
50.1	1972	47.5	1923	46.1	1944		
50.0	1924	47.5	1956	46.0	1977		
50.0	1981	47.4	1894	45.9	1971		

## Warmest to Coldest Summers

$$\text{Summer (seasonal) avg. temp.} = \frac{(\text{June avg. temp.} + \text{July avg. temp.} + \text{Aug. avg. temp.})}{3}$$

Avg. temp. Summer		Avg. temp. Summer		Avg. temp. Summer		Avg. temp. Summer	
75.3	2006	69.1	1987	67.1	1898	65.1	1948
75.0	2003	69.0	1922	67.0	1960	65.0	1894
74.2	2004	69.0	1995	67.0	1982	65.0	1956
73.6	2002	69.0	1996	67.0	1993	64.9	1895
73.4	2001	68.9	1989	66.9	1902	64.8	1893
73.3	2005	68.8	1910	66.9	1909	64.7	1892
73.1	1994	68.8	1942	66.8	1901	64.6	1890
72.4	2000	68.7	1928	66.8	1920	64.4	1953
71.8	1931	68.6	1921	66.8	1967	64.3	1947
71.8	1988	68.6	1924	66.8	1968	64.3	1954
71.7	1940	68.5	1981	66.6	1951	64.2	1943
71.3	1998	68.4	1961	66.5	1946	64.1	1976
71.1	1933	68.3	1927	66.5	1980	63.7	1965
70.8	1926	68.3	1959	66.5	1983	63.6	1907
70.5	1939	68.3	1984	66.4	1913	63.6	1944
70.3	1999	68.1	1925	66.4	1945	63.4	1962
70.2	1985	67.9	1889	66.3	1964	62.9	1963
70.2	1990	67.8	1914	66.2	1950		
70.1	1936	67.8	1915	66.2	1955		
70.0	1986	67.8	1972	66.2	1957		
70.0	1992	67.7	1906	66.1	1978		
69.9	1917	67.5	1896	65.9	1975		
69.9	1970	67.5	1904	65.8	1916		
69.6	1929	67.5	1941	65.6	1949		
69.6	1935	67.4	1911	65.6	1952		
69.5	1918	67.3	1958	65.6	1966		
69.4	1937	67.3	1971	65.5	1923		
69.4	1991	67.3	1973	65.5	1974		
69.3	1938	67.3	1997	65.4	1888		
69.3	1977	67.2	1900	65.3	1899		
69.1	1919	67.2	1905	65.3	1912		
69.1	1930	67.2	1908	65.2	1903		
69.1	1932	67.2	1969	65.1	1891		
69.1	1934	67.2	1979	65.1	1897		

**Greatest number of consecutive days with maximum temperatures:  
90 degrees or higher**

Consecutive Days	Inclusive Dates	Consecutive Days	Inclusive Dates
35	July 11 – Aug. 14, 2005	17	July 7 – 24, 1919
33	July 7 – Aug. 8, 1994	17	July 19 – Aug. 4, 1945
31	July 31 – Aug. 30, 1970	17	June 18 – July 4, 1981
30	July 8 – Aug. 6, 1961	17	July 13 – 29, 2006
30	July 15 – Aug. 13, 1980	16	July 19 – Aug. 2, 1962
29	July 15 – Aug. 12, 1959	16	Aug. 1 – 16, 1998
28	July 15 – Aug. 11, 1969	15	July 15 – 29, 1952
28	July 4 – 31, 2003	15	July 29 – Aug. 12, 1955
27	July 3 – 29, 1968	15	Aug. 13 – 27, 1969
27	July 25 – Aug. 20, 1992	15	July 23 – Aug. 6, 1979
26	July 17 – Aug. 11, 1978	15	Aug. 4 – 18, 1981
25	Aug. 16 – Sept. 9, 1988	15	Aug. 5 – 19, 2001
24	July 6 – 29, 1964	14	July 27 – Aug. 9, 1908
24	June 23 – July 16, 2002	14	Aug. 12 – 25, 1919
23	July 13 – Aug. 4, 1936	14	July 9 – 22, 1927
23	July 31 – Aug. 22, 1939	14	June 20 – July 3, 1932
23	July 2 – 24, 1953	14	July 11 – 24, 1944
22	July 19 – Aug. 9, 2000	14	July 11 – 24, 1977
22	July 11 – Aug. 1, 2004	14	July 27 – Aug. 9, 1983
21	July 10- 31, 1933	14	July 17 – 30, 1989
21	Aug. 6 – 26, 1934	14	July 21 – Aug. 3, 1991
21	July 30 – Aug. 19, 1986	14	Aug. 7 – 20, 2003
20	July 16 – Aug. 4, 1931	13	Aug. 15 – 27, 1946
19	Aug. 3 – 21, 1940	13	Aug. 25 – Sept. 6, 1948
19	July 11 – 29, 1970	13	July 22 – Aug. 3, 1951
19	July 7 – 25, 1988	13	Aug. 2 – 14, 1960
19	July 27 – Aug. 14, 1990	13	June 14 – 26, 1961
18	July 19 – Aug. 15, 1914	13	July 18 – 30, 1974
18	July 12 – 29, 1960	13	Aug. 1 – 13, 1975
18	Aug. 8 – 25, 1967	13	June 18 – 30, 1981
18	July 26 – Aug. 12, 1987	13	July 20 – Aug. 1, 2002
		12	July 13 – 24, 1921
		12	July 23 – Aug. 3, 1929
		12	Aug. 1 – 12, 1946
		12	Aug. 25 – Sept. 5, 1950
		12	July 18 – 29, 1967
		12	June 11 – 22, 1985
		12	July 7 – 18, 1990

**Greatest number of consecutive days with maximum temperatures:  
100 degrees or higher**

Consecutive Days	Inclusive Dates	Daily Temperatures (Respectively)
10	July 12 – 21, 2005	104, 101, 101, 103, 104, 102, 101, 101, 102, 101
7	July 17 – 23, 1988	101, 103, 100, 101, 103, 100, 100
6	July 18 – 23, 1931	102, 105, 106, 102, 102, 102
6	July 16 – 21, 1959	101, 102, 100, 102, 100, 100
6	July 12 – 17, 1972	100, 102, 103, 101, 102, 100
6	July 17 – 22, 2003	100, 100, 100, 103, 104, 104
5	Aug. 11 – 15, 1933	100, 102, 103, 102, 102
5	July 16 – 20, 1998	101, 104, 102, 101, 100
4	July 17 – 20, 1960	100, 102, 102, 101
4	Aug. 10 – 13, 1970	103, 102, 100, 101
4	July 24 – 27, 1975	101, 100, 103, 101
4	Aug. 6 – 9, 1978	100, 100, 102, 100
4	July 16 – 19, 1979	101, 100, 102, 100
4	July 21 – 24, 1980	102, 103, 101, 101
4	July 9 – 12, 2002	102, 108, 108, 101
4	July 24 – 27, 2006	101, 101, 101, 101
3	July 11 – 13, 1917	101, 100, 101
3	July 24 – 26, 1928	102, 101, 102
3	July 25 – 27, 1945	101, 104, 103
3	July 20 – 22, 1969	101, 100, 100
3	June 29 – July 1, 1972	100, 100, 100
3	Aug. 6 – 8, 1972	101, 101, 103
3	Aug. 2 – 4, 1978	100, 101, 102
3	Aug. 5 – 7, 1990	102, 103, 102
3	July 30 – Aug. 1, 2000	101, 103, 103

**Greatest number of consecutive days with minimum temperatures:  
65 degrees or higher**

Consecutive Days	Inclusive Dates	Daily Temperatures (Respectively)
13	July 16 – 28, 2006	66, 66, 70, 74, 69, 70, 66, 77, 73, 72, 66, 67, 66
8	July 18 – 25, 2003	67, 72, 73, 68, 69, 72, 72, 67
8	July 12 – 19, 2005	66, 65, 69, 71, 67, 69, 71, 70
5	June 26 – 30, 1899	65, 72, 75, 75, 72
5	July 20 – 24, 1931	66, 68, 66, 71, 69
4	July 20 – 23, 1936	65, 68, 69, 65
4	July 11 – 14, 2002	66, 74, 65, 66
4	Aug. 6 – 9, 2005	65, 67, 65, 65
3	July 26 – 28, 1931	69, 65, 69
3	July 31 – Aug. 2, 2000	65, 68, 65
3	July 17 – 19, 2004	67, 66, 66
3	July 22 – 24, 2004	65, 65, 69
2	June 8 – 9, 1902	69, 67
2	July 29 – 30, 1994	66, 69
2	July 22 – 23, 1998	73, 69
2	July 4 – 5, 2001	66, 69
2	July 30 – 31, 2003	68, 65
2	July 6 – 7, 2004	65, 68
2	July 21 – 22, 2005	71, 66

**Dates with minimum temperatures:  
70 degrees or higher**

Temperature	Date
77	July 23, 2006
75	June 28, 1899
75	June 29, 1899
74	July 12, 2002
74	July 19, 2006
73	July 22, 1998
73	July 20, 2003
73	July 24, 2006
72	June 27, 1899
72	June 30, 1899
72	Aug. 16, 1933
72	Aug. 12, 1992
72	July 19, 2003
72	July 23, 2003
72	July 24, 2003
72	July 25, 2006
71	July 23, 1931
71	July 15, 2005
71	July 18, 2005
71	July 21, 2005
70	July 31, 1901
70	Aug. 13, 2004
70	July 19, 2005
70	July 18, 2006
70	July 21, 2006



**Greatest number of consecutive days with minimum temperatures:  
10 degrees or lower**

Consecutive Days	Inclusive Dates	Daily Temperatures (Respectively)
20	Jan. 14 – Feb. 2, 1949	+2, -12, -8, -7, -4, +6, +6, -4, +5, -2, -6, -16, -15, -1, -4, -7, -5, -7, -2, +10
15	Dec. 28, 1971 – Jan. 11, 1972	+4, +4, -1, 0, +4, -7, +1, -8, -3, +2, +5, 0, +2, +2, +5
13	Jan. 11 – 23, 1963	+1, -5, -1, +7, +6, +9, +4, +7, +3, +3, +6, +10, +8
11	Dec. 6 – 16, 1943	+9, +7, +6, +6, +2, +9, +9, +8, +7, +7, 8
9	Jan. 15 – 23, 1907	+1, -4, +7, +8, +9, +9, +5, +5, +3
9	Jan. 30 – Feb. 7, 1923	+7, -8, 0, -1, -1, +1, +2, +3, 0
9	Jan. 26 – Feb. 3, 1948	+5, +6, +5, +6, +8, +8, +10, +3, +2
9	Dec. 21 – 29, 1956	+5, +10, +8, +8, +5, +3, +4, +6
9	Dec. 29, 1960 – Jan. 6, 1961	+9, +10, +9, +5, +6, +4, +7, +3, +10
8	Jan. 13 – 20, 1917	+10, +5, +1, -2, -5, -3, +1, +1
8	Jan. 6 – 13, 1937	0, -10, -16, -14, -5, -2, -1, -1
8	Jan. 19 – 26, 1937	+2, -12, -14, +2, +2, +10, 0, +4
8	Dec. 20 – 27, 1990	+5, -8, -13, -9, -11, +1, +2, +2
7	Dec. 18 – 24, 1928	+10, +9, +10, +8, +7, +5, +9
7	Dec. 24 – 30, 1930	+9, +9, +9, +10, +9, +9, +10
7	Jan. 14 – 20, 1948	+8, +9, +8, +10, +9, +8, +9
7	Dec. 31, 1951 – Jan. 6, 1952	+3, +3, +1, 0, +6, +6, +9
7	Jan. 6 – 12, 1955	+8, +2, +6, +7, +9, +9, +4
7	Dec. 19 – 25, 1978	-3, -7, +5, +4, +5, +6, +7
7	Jan. 6 – 12, 1982	+2, 0, +2, +5, +5, +9, +10
6	Jan. 1 – 6, 1912	+8, -5, -11, -5, -3, +8
6	Jan. 18 – 23, 1922	+3, -1, -1, +4, +7, +9
6	Dec. 10 – 15, 1932	+4, 0, -5, -7, -6, 0
6	Feb. 2 – 7, 1933	+9, +9, +6, +5, +6, 0
6	Jan. 2 – 7, 1949	0, -3, -7, -4, +2, +3
6	Jan. 6 – 11, 1957	+7, +6, +8, -3, +4, +6
6	Dec. 25 – 30, 1962	+9, +4, +8, +9, +8, +10
6	Dec. 28, 1978 – Jan. 2, 1979	+7, +2, -1, -4, +1, +4
6	Feb. 17 – 22, 1990	+6, +2, -7, -6, +10, +7

**Greatest number of consecutive days with minimum temperatures:  
0 degrees or lower**

Consecutive Days	Inclusive Dates	Daily Temperatures (Respectively)
10	Jan. 23 – Feb. 1, 1949	-2, -6, -16, -15, -1, -4, -7, -5, -7, -2
7	Jan. 7 – 13, 1937	-10, -16, -14, -5, -2, -1, -1
6	Dec. 8 – 13, 1972	-12, -16, -11, -15, -2, -2
5	Jan. 30 – Feb. 3, 1956	-1, -1, -8, -9, -1
4	Jan. 2 – 5, 1912	-5, -11, -5, -3
4	Jan. 31 – Feb. 3, 1923	-8, 0, -1, -1
4	Jan. 9 – 12, 1949	-7, -4, -10, -11
4	Jan. 15 – 18, 1949	-12, -8, -7, -4
4	Jan. 2 – 5, 1971	-4, -11, -6, -5
4	Dec. 26 – 29, 1988	-1, -4, 0, -1
4	Feb.5-8, 1989	-10, -15, -16, -12
4	Dec. 21 – 24, 1990	-8, -13, -9,-11
3	Jan. 16 – 18, 1917	-2, -5, -3
3	Feb. 7 – 9, 1929	-2, -6, -3
3	Dec. 12 – 14, 1932	-5, -7, -6
3	Jan. 1 – 3, 1942	-1, -9, -1
3	Jan. 3 – 5, 1949	-3, -7, -4
3	Feb. 12 – 14, 1949	-5, -5, -1
3	Jan. 22 – 24, 1962	-7, -10, -6
2	Jan. 11 – 12, 1916	-1, -9
2	Jan. 20 – 21, 1916	-11, -17
2	Jan. 30 – 31, 1916	-4, -13
2	Jan. 19 – 20, 1922	-1, -1
2	Feb. 9 – 10, 1923	-1, -4
2	Jan. 1 – 2, 1924	-1, -4
2	Jan. 20 – 21, 1937	-12, -14
2	Jan. 12 – 13, 1950	-3, -1
2	Feb. 26 – 27, 1962	-10, -12
2	Jan. 12 – 13, 1963	-5, -1
2	Jan. 4 – 5, 1972	-8, -3
2	Dec. 4 – 5, 1972	-2, -12
2	Jan. 4 – 5, 1973	-1, -4
2	Jan. 2 – 3, 1974	0, 0
2	Dec. 19 – 20, 1978	-3, -7
2	Dec. 30 – 31, 1978	-1, -4

## **Frost / Freeze data**

This study of frost / freeze conditions looks at temperature data for Reno from winter 1906 through summer 2006. This coincides with the period of time that the U. S. Weather Bureau, and later the National Weather Service, has been responsible for weather observations for Reno. Actual physical observation forms were also available for this period, thus alleviating the problem of missing data in automated search engines containing climate data for Reno.

The *Glossary of Meteorology* defines a “frost-free season” as the “period, usually expressed in days, between the last observed occurrence of frost in the spring and the first observed occurrence of frost in the autumn” (Glickman, 2000). In its definition of a “growing season” the *Glossary of Meteorology* further states that, as another measure of the growing season, “the frost-free season, is defined as the interval between the last and first occurrences of 32°F temperatures in spring and fall”.

The National Weather Service defines a “freeze” as occurring “when the surface air temperature is 32°F or below over a widespread area for a climatologically significant period of time (greater than one hour)” (U. S. Department of Commerce, 2005).

For this study the length of a frost-free period is defined as the number of days between the date of the last 32°F temperature in the spring and the date of the first 32°F temperature in the fall. Thus, if the last 32° temperature in the spring was on May 20<sup>th</sup> and the first 32° temperature in the fall was on October 11<sup>th</sup>, then the frost-free period (the actual days that did not experience a 32° temperature) would extend from May 21<sup>st</sup> through October 10<sup>th</sup>.

As might be expected, during the last 100 years there has been a large interannual variation in the length of the frost-free seasons. Some years have had frost-free periods of over 150 days (approximately 5 months) while other years have had frost-free periods of less than 90 days.

The Reno airport became the official weather observation site on September 1, 1942, after being located in town for the previous fifty years. This change to a rural location had a profound effect on weather observations for Reno (more so than with any other change in observation site). From 1906 through the 1930s the date of last 32° temperature in the spring remained fairly steady with the date usually in May. This changed some in the warm decade of the 1930s when the last spring frost occurred in mid- to late April. The date of first frost in the fall typically occurred from late September to mid October through the 1930s.

A dramatic change can be detected after the observation site was moved to the airport southeast of town. Starting in 1943 (the first full year that observations were taken at the airport) the date of last frost in the spring shifted a full month later - going from an average of early May to early June. In the twenty years from 1943 through 1962

the date of last 32° temperature was in June in all but six years (five of those years being late in this twenty-year period – 1956, 1957, 1958, 1959, and 1961).

This same trend to shorter frost-free seasons was also reflected in the dates of first 32° temperature during the fall. For the same twenty-year period referred to above (1943 through 1962) the date of first frost was in September in all but five years. Incredibly, in three of those years the first 32° temperature was reported in August.

By the 1970s we started to see dates of first and last frost starting to resemble those that were recorded before the change in observation location in the early 1940s. Dates of last 32° temperature in the spring were usually in May, with the date of last 32° temperature in the fall again occurring from mid September to mid October.

Another change began in the late 1980s to early 1990s. Dates of last frost in the spring started occurring in April. In fact, from 1987 through 2006 these events occurred during April in nine of those twenty years. This trend is even more impressive in relation to dates of first frost in the fall. From 1987 through 2005 (last year available) the date of last 32° temperature occurred during October in 17 of those 19 years. During the other two years this occurrence was on September 30 (1995) and November 3 (1992). This November 1992 date is the only time (from 1906 through 2005) that the first 32° reading in the fall occurred in November!

In studying data for the 30-year period of 1971-2000 it is found that the average date of last 32° temperature in the spring was May 21 while the date of first 32° temperature in the autumn was October 3. Data for the most recent 15 years (1991-2005) shows that the frost-free period has lengthened. For this period the date of last 32° reading was May 3, and the date of first 32° reading in the autumn was October 19. Thus the average length of the frost-free period grew from 134 days (for 1991-2000) to 168 days for the most recent 15-year period – an increase of a full month.

As opposed to a date on which frost occurs, a hard freeze is sometimes defined as occurring on a date when the temperature drops to 28°F. This reflects the fact that, because of radiational cooling at night, the temperature near the ground can be a few degrees colder than the temperature that is recorded at the standard observation height of around 5 feet above the surface. Thus, even if the official low temperature at night is 28° (or 32°) the temperature at the surface may be colder than this official reading.

The following two tables list data for last and first 32° temperature during a year, the resulting frost-free period (using the definition above), and the last and first 28° temperature during each year.

## Longest frost-free periods

Length (Days)	Inclusive Dates	Temp <=32°F		Temp <= 28°F	
		Last	First	Last	First
204	April 7 – Oct. 27, 1940	April 6	Oct. 28	March 13	Nov. 3
196	April 8 – Oct. 20, 1936	April 7	Oct. 21	April 6	Oct. 28
194	April 14 – Oct. 24, 1939	April 13	Oct. 25	March 11	Oct. 25
193	April 24 – Nov. 2, 1992	April 23	Nov. 3	April 6	Nov. 8
192	April 21 – Oct. 29, 2005	April 20	Oct. 30	April 14	Nov. 16
186	April 12 – Oct. 14, 1994	April 11	Oct. 15	March 23	Oct. 16
185	April 25 – Oct. 26, 1993	April 24	Oct. 27	April 19	Nov. 2
184	April 23 – Oct. 23, 2001	April 22	Oct. 24	April 14	Nov. 9
184	April 19 – Oct. 19, 2004	April 18	Oct. 20	March 4	Oct. 30
183	May 1 – Oct. 30, 2003	April 30	Oct. 31	April 15	Nov. 2
180	April 19 – Oct. 15, 1935	April 18	Oct. 16	March 28	Oct. 21
178	April 23 – Oct. 17, 1932	April 22	Oct. 18	April 22	Oct. 19
174	April 5 – Sept. 25, 1934	April 4	Sept. 26	April 4	Oct. 23
165	April 21 – Oct. 2, 1919	April 20	Oct. 3	April 14	Oct. 10
164	May 20 – Oct. 30, 1933	May 19	Oct. 31	May 3	Nov. 5
164	May 3 – Oct. 13, 1987	May 2	Oct. 14	April 20	Nov. 10
162	May 8 – Oct. 16, 1938	May 7	Oct. 17	May 3	Oct. 17
161	May 6 – Oct. 13, 1910	May 5	Oct. 14	May 5	Nov. 5
161	April 26 – Oct. 3, 1914	April 25	Oct. 4	April 24	Oct. 22
161	May 3 – Oct. 10, 1915	May 2	Oct. 11	May 2	Nov. 9
160	May 4 – Oct. 10, 1928	May 3	Oct. 11	April 21	Oct. 14
160	April 23 – Sept. 29, 1995	April 22	Sept. 30	April 19	Oct. 22
159	May 11 – Oct. 16, 1918	May 10	Oct. 17	April 27	Oct. 26
159	April 30 – Oct. 5, 1937	April 29	Oct. 6	April 22	Nov. 7
158	May 18 – Oct. 22, 1921	May 17	Oct. 23	April 25	Oct. 24
157	May 6 – Oct. 9, 1924	May 5	Oct. 10	April 26	Oct. 12
156	May 3 – Oct. 5, 1997	May 2	Oct. 6	April 13	Oct. 12
154	May 17 – Oct. 17, 1917	May 16	Oct. 18	May 16	Oct. 19
153	May 16 – Oct. 15, 1999	May 15	Oct. 16	April 10	Nov. 18
153	May 12 – Oct. 11, 2000	May 11	Oct. 12	May 11	Oct. 30
151	May 19 – Oct. 16, 1998	May 18	Oct. 17	April 26	Oct. 17
150	May 25 – Oct. 22, 1909	May 24	Oct. 22	May 11	Oct. 29
150	April 26 – Sept. 22, 1931	April 25	Sept. 23	April 23	Oct. 26
150	May 6 – Oct. 2, 1969	May 5	Oct. 3	April 25	Oct. 3
149	May 16 – Oct. 11, 1956	May 15	Oct. 12	May 14	Oct. 12
149	May 18 – Oct. 13, 1983	May 17	Oct. 14	May 8	Nov. 7
149	May 28 – Oct. 23, 1991	May 27	Oct. 24	May 11	Oct. 28
149	May 23 – Oct. 18, 2002	May 22	Oct. 24	March 25	Oct. 30
147	May 27 – Oct. 20, 1922	May 26	Oct. 21	May 11	Oct. 29
147	May 13 – Oct. 6, 1975	May 12	Oct. 7	May 5	Oct. 8
145	June 7 – Oct. 29, 1988	June 6	Oct. 30	May 2	Nov. 9
144	May 3 – Sept. 23, 1920	May 2	Sept. 24	April 25	Oct. 7
144	May 21 – Oct. 11, 1996	May 20	Oct. 12	April 21	Oct. 17

139	May 20 – Oct. 5, 1941	May 19	Oct. 6	April 20	Oct. 6
138	May 23 – Oct. 7, 1912	May 22	Oct. 8	April 22	Oct. 10
135	May 21 – Oct. 2, 1907	May 20	Oct. 3	March 28	Nov. 8
135	May 12 – Sept. 24, 1913	May 11	Sept. 24	May 2	Oct. 5
134	June 9 – Oct. 20, 1979	June 8	Oct. 21	May 10	Oct. 21
133	May 11 – Sept. 20, 1926	May 10	Sept. 21	March 26	Oct. 8
133	May 15 – Sept. 24, 1948	May 14	Sept. 25	May 14	Sept. 27
132	May 25 – Oct. 3, 1916	May 24	Oct. 4	May 13	Oct. 5
132	May 14 – Sept. 22, 1958	May 13	Sept. 23	April 27	Sept. 24
131	May 17 – Sept. 24, 1984	May 16	Sept. 25	April 28	Oct. 17

## Shortest frost-free periods

Length (Days)	Inclusive Dates	Temp $\leq 32^{\circ}\text{F}$		Temp $\leq 28^{\circ}\text{F}$	
		Last	First	Last	First
56	June 30 – Aug. 24, 1963	June 29	Aug. 25	April 29	Oct. 13
62	June 22 – Aug. 22, 1960	June 21	Aug. 23	May 23	Sept. 22
63	June 8 – Aug. 9, 1962	June 7	Aug. 10	May 13	Aug. 28
65	June 26 – Aug. 29, 1943	June 25	Aug. 30	May 18	Oct. 12
69	June 14 – Aug. 21, 1968	June 13	Aug. 22	May 24	Sept. 21
76	June 28 – Sept. 11, 1974	June 27	Sept. 12	May 20	Sept. 28
88	June 4 – Aug. 30, 1966	June 3	Aug. 31	April 29	Oct. 4
88	May 27 – Aug. 22, 1973	May 26	Aug. 23	May 6	Oct. 2
91	June 14 – Sept. 12, 1965	June 13	Sept. 13	May 8	Sept. 17
92	June 3 – Sept. 2, 1971	June 2	Sept. 3	May 18	Sept. 18
93	June 17 – Sept. 17, 1944	June 16	Sept. 18	May 16	Oct. 2
94	June 23 – Sept. 24, 1908	June 22	Sept. 25	May 10	Sept. 25
98	June 17 – Sept. 22, 1945	June 16	Sept. 23	May 25	Sept. 23
99	May 28 – Sept. 3, 1961	May 27	Sept. 4	May 13	Sept. 22
99	June 1 – Sept. 7, 1978	May 31	Sept. 8	May 25	Sept. 18
99	June 4 – Sept. 10, 1982	June 3	Sept. 11	May 11	Oct. 5
100	June 4 – Sept. 11, 1951	June 3	Sept. 12	May 14	Oct. 5
101	June 8 – Sept. 16, 1946	June 7	Sept. 17	May 2	Sept. 17
101	June 7 – Sept. 15, 1954	June 6	Sept. 16	June 6	Sept. 30
102	June 14 – Sept. 23, 1923	June 13	Sept. 24	April 30	Oct. 23
102	May 22 – Aug. 31, 1964	May 21	Sept. 1	May 6	Oct. 18
104	May 31 – Sept. 11, 1985	May 30	Sept. 12	April 26	Oct. 9
105	June 5 – Sept. 17, 1947	June 4	Sept. 18	April 23	Sept. 20
106	June 2 – Sept. 15, 1955	June 1	Sept. 16	May 3	Oct. 4
107	May 30 – Sept. 13, 1927	May 29	Sept. 14	May 20	Oct. 6
108	June 2 – Sept. 17, 1949	June 1	Sept. 18	May 6	Oct. 9
108	June 14 – Sept. 29, 1953	June 13	Sept. 30	May 12	Oct. 4
108	May 30 – Sept. 14, 1959	May 29	Sept. 15	May 4	Sept. 28
108	June 14 – Sept. 29, 1981	June 13	Sept. 30	April 27	Oct. 8
112	June 9 – Sept. 28, 1950	June 8	Sept. 29	June 8	Sept. 29
112	May 29 – Sept. 17, 1977	May 28	Sept. 18	May 18	Sept. 23
113	May 28 – Sept. 17, 1911	May 27	Sept. 18	May 10	Oct. 10
115	May 19 – Sept. 10, 1972	May 18	Sept. 11	April 30	Sept. 12
115	May 23 – Sept. 14, 1986	May 22	Sept. 15	May 6	Sept. 20
116	June 5 – Sept. 28, 1925	June 4	Sept. 29	April 1	Sept. 30
116	June 3 – Sept. 26, 1929	June 2	Sept. 27	April 25	Oct. 29
118	June 16 – Oct. 11, 1952	June 15	Oct. 12	June 12	Oct. 22
119	June 8 – Oct. 4, 1906	June 7	Oct. 5	May 17	Oct. 18
120	May 16 – Sept. 12, 1970	May 15	Sept. 13	May 2	Sept. 14
122	May 15 – Sept. 13, 1967	May 14	Sept. 14	May 14	Oct. 6
125	May 23 – Sept. 24, 1930	May 22	Sept. 25	March 18	Oct. 25
127	May 16 – Sept. 19, 1957	May 15	Sept. 20	May 3	Oct. 6
127	June 7 – Oct. 11, 1976	June 6	Oct. 12	April 29	Oct. 18

127	May 31 – Oct. 4, 1989	May 30	Oct. 5	April 27	Oct. 25
128	May 14 – Sept. 18, 1942	May 13	Sept. 19	April 26	Sept. 19
128	June 7 – Oct. 12, 1980	June 6	Oct. 13	May 26	Oct. 13
128	June 2 – Oct. 7, 1990	June 1	Oct. 8	March 30	Oct. 8



## Precipitation

Reno is located in the high desert of the western Great Basin. Reno is also located in the lee of the Sierra Nevada. The combination of Reno's high elevation, and its protection from the prevailing westerly flow of the mid-latitudes, accounts for Reno's dry climate. With no large bodies of water in the local vicinity of Reno, moisture that becomes precipitation must be advected into the region. This is true of most continental locations (Sellers, 1965). Reno receives an average of 7.48 inches of precipitation each year (1971-2000 climate normals). Two-thirds of this total is received during the six-month period from November through April.

A major reason for this cold season maximum is that "the precipitation is derived from the numerous depressions moving eastward from the Pacific coast which result in widespread rains" (Trewartha, 1981). Houghton mentions something similar when he states that in the Great Basin "precipitation is cyclonic from October to June, but mainly convective from July to September" (Houghton, 1969).

Reno tends not to receive large amounts of precipitation during a short period of time. In studying daily precipitation data for Reno for the period January 1906 through summer 2006, precipitation of an inch or greater has occurred on only 54 days. Over two inches of precipitation has occurred on only two dates. Heavy precipitation is mainly a wintertime phenomenon. Houghton et al. (1975) state that, "near the western border of Nevada, precipitation is concentrated in the winter season of Pacific storms".

More than half of the fifty-four dates that had precipitation of an inch or greater (twenty-nine, or 54%) occurred during December and January. Of these twenty-nine dates, nearly two-thirds (eighteen) consisted of rain, either mostly or entirely. The other nine December/January heavy precipitation events were either mostly or entirely snow. Two of the dates, from Dec. 2001 and Dec. 2002, occurred during the period (1996 through spring 2004) when snowfall data was not available for Reno (see discussion in snowfall section below).

The wet half of the year also corresponds to the colder months. Reno's wettest months (with precipitation of 4.00 inches or greater) have all occurred from November through March. The wettest months, however, do not always match the snowiest months. Reno's annual precipitation has ranged from as little as two inches to as great as approximately 15 inches. Because of this large interannual variability, it is most helpful to consider precipitation data from as long a period as possible (Landsberg, 1966). Precipitation data in this climatology for Reno extends back more than 100 years.

The following tables list various information derived from Reno's precipitation data. Precipitation records for Reno extend back to 1870 when the Central Pacific Railroad started collecting precipitation data for the area. Fairly reliable monthly records of precipitation date from 1870, but continuous daily data is available mainly from 1906 after the Weather Bureau started recording weather observations for Reno. This information will be reflected in the data tables below.

These tables detail the largest precipitation amounts recorded for a calendar day, the wettest and driest months from 1870 until present, wettest and driest calendar years and water years, and wettest and driest seasons. Other tables list the longest periods of consecutive days of precipitation of various amounts, and longest periods during which no measurable precipitation was recorded at Reno.

**Greatest daily precipitation (calendar day) 1.00 inch or greater - chronological**

Date	Amt.	Predom. Type	Date	Amt.	Predom. Type
Jan. 12, 1906	1.38	Rain	Feb. 9, 1962	1.53	Rain
March 23, 1907	1.25	Snow	Oct. 13, 1962	1.46	Rain
Jan. 8, 1909	1.00	Rain	Jan. 31, 1963	1.59	Rain
Dec. 31, 1909	1.24	Rain	May 24, 1963	1.28	Rain
July 17, 1910	1.02	Rain	Dec. 22, 1964	1.36	Rain
Dec. 31, 1913	1.74	Rain	Jan. 25, 1969	1.34	Snow
Jan. 17, 1914	1.17	Snow	Dec. 25, 1971	1.38	Snow
Jan. 25, 1914	1.19	Snow	Jan. 13, 1980	1.14	Rain
Jan. 3, 1916	1.76	Snow	Nov. 13, 1981	1.33	Rain
Jan. 17, 1916	1.39	Snow	Feb. 19, 1986	1.06	Rain
Feb. 10, 1919	1.35	Rain	May 17, 1987	1.76	Rain
Dec. 2, 1919	1.30	Snow	Nov. 23, 1988	1.64	Snow
June 29, 1920	1.68	Rain	Feb. 16, 1990	1.80	Snow
May 30, 1921	1.45	Rain	Oct. 5, 1993	1.06	Rain
Feb. 10, 1922	1.18	Snow	Jan. 10, 1995	1.55	Rain
Dec. 13, 1922	1.02	Rain	March 10, 1995	1.09	Rain
Dec. 10, 1929	1.13	Rain	Dec. 12, 1995	1.74	Rain
Sept. 29, 1930	1.04	Rain	Dec. 2, 2001	1.19	NA
April 22, 1931	1.00	Snow	Dec. 16, 2002	1.29	NA
Oct. 30, 1933	1.41	Rain	Feb. 25, 2004	1.12	NA
Dec. 12, 1933	1.24	Rain	March 1, 2004	1.21	NA
Feb. 10, 1938	1.05	Snow	Dec. 30, 2004	1.18	Snow
Jan. 2, 1940	1.03	Rain	Dec. 31, 2005	1.42	Rain
Jan. 21, 1943	2.29	Rain	Jan. 2, 2006	1.04	Snow
April 25, 1952	1.56	Rain			
Dec. 22, 1955	1.05	Rain			
Dec. 23, 1955	2.02	Rain			
Jan. 25, 1956	1.03	Snow			
April 2, 1958	1.09	Snow			
Feb. 10, 1959	1.39	Snow			

**Greatest daily precipitation (calendar day) 1.00 inch or greater – by amount**

Date	Amt.	Predom. Type	Date	Amt.	Predom. Type
Jan. 21, 1943	2.29	Rain	Jan. 25, 1914	1.19	Snow
Dec. 23, 1955	2.02	Rain	Dec. 2, 2001	1.19	NA
Feb. 16, 1990	1.80	Snow	Feb. 10, 1922	1.18	Snow
Jan. 3, 1916	1.76	Snow	Dec. 30, 2004	1.18	Snow
May 17, 1987	1.76	Rain	Jan. 17, 1914	1.17	Snow
Dec. 31, 1913	1.74	Rain	Jan. 13, 1980	1.14	Rain
Dec. 12, 1995	1.74	Rain	Dec. 10, 1929	1.13	Rain
June 29, 1920	1.68	Rain	Feb. 25, 2004	1.12	NA
Nov. 23, 1988	1.64	Snow	April 2, 1958	1.09	Snow
Jan. 31, 1963	1.59	Rain	March 10, 1995	1.09	Rain
April 25, 1952	1.56	Rain	Feb. 19, 1986	1.06	Rain
Jan. 10, 1995	1.55	Rain	Oct. 5, 1993	1.06	Rain
Feb. 9, 1962	1.53	Rain	Feb. 10, 1938	1.05	Snow
Oct. 13, 1962	1.46	Rain	Dec. 22, 1955	1.05	Rain
May 30, 1921	1.45	Rain	Sept. 29, 1930	1.04	Rain
Dec. 31, 2005	1.42	Rain	Jan. 2, 2006	1.04	Snow
Oct. 30, 1933	1.41	Rain	Jan. 2, 1940	1.03	Rain
Jan. 17, 1916	1.39	Snow	Jan. 25, 1956	1.03	Snow
Feb. 10, 1959	1.39	Snow	July 17, 1910	1.02	Rain
Jan. 12, 1906	1.38	Rain	Dec. 13, 1922	1.02	Rain
Dec. 25, 1971	1.38	Snow	Jan. 8, 1909	1.00	Rain
Dec. 22, 1964	1.36	Rain	April 22, 1931	1.00	Snow
Feb. 10, 1919	1.35	Rain			
Jan. 25, 1969	1.34	Snow			
Nov. 13, 1981	1.33	Rain			
Dec. 2, 1919	1.30	Snow			
Dec. 16, 2002	1.29	NA			
May 24, 1963	1.28	Rain			
March 23, 1907	1.25	Snow			
Dec. 31, 1909	1.24	Rain			
Dec. 12, 1933	1.24	Rain			
March 1, 2004	1.21	NA			

## Comparisons of monthly precipitation

### Wettest to Driest Januaries

(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
6.76	1916	1.64	1965	0.81	1953	0.40	1885
6.71	1890	1.60	1974	0.80	1882	0.40	1986
5.46	1914	1.60	2006	0.80	1883	0.37	1889
5.23	1911	1.56	1932	0.80	1961	0.37	1972
4.75	1909	1.54	1950	0.78	1958	0.36	1984
4.40	1877	1.54	1973	0.77	1871	0.35	1962
4.13	1969	1.51	1893	0.77	1944	0.32	1975
4.05	1943	1.50	1881	0.76	1949	0.31	2001
3.72	1940	1.46	1913	0.76	1999	0.25	1945
3.55	1906	1.42	1930	0.75	1971	0.24	1985
3.32	1997	1.41	1942	0.68	1931	0.21	1904
3.31	1995	1.40	1876	0.68	1964	0.20	1989
3.00	1886	1.35	1879	0.67	1977	0.19	1946
3.00	1903	1.33	1996	0.66	1938	0.17	2003
2.87	1896	1.32	1939	0.66	1979	0.16	1924
2.81	1895	1.28	1907	0.64	1922	0.16	1925
2.77	1980	1.21	1960	0.64	1955	0.16	1947
2.70	1875	1.20	1957	0.64	1959	0.16	1976
2.58	1956	1.20	1982	0.62	1936	0.15	1902
2.51	1963	1.12	1899	0.62	1990	0.14	1928
2.48	1901	1.11	1968	0.61	1941	0.13	1918
2.42	1993	1.10	1935	0.60	1887	0.13	1992
2.22	1933	1.10	1998	0.59	2002	0.12	1905
2.14	2000	1.05	1897	0.58	1892	0.06	1891
2.11	1967	0.99	1898	0.55	1873	0.06	1994
1.90	1923	0.98	1910	0.55	1915	0.05	1917
1.90	1937	0.98	1951	0.50	1900	0.04	1920
1.89	1952	0.96	2004	0.50	1988	0.01	1948
1.78	2005	0.91	1926	0.49	1987	0.01	1991
1.73	1970	0.89	1894	0.48	1927	T	1966
1.72	1888	0.86	1954	0.45	1934	0.00	1872
1.72	1983	0.85	1880	0.44	1912		
1.70	1884	0.85	1981	0.44	1929		
1.69	1878	0.84	1921	0.42	1919		
1.66	1978	0.83	1908	0.40	1874		

## Wettest to Driest Februaries

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
4.99	1904	1.46	1925	0.71	1997	0.30	1950
4.84	1986	1.42	1894	0.68	1942	0.30	1961
4.06	1922	1.40	1892	0.68	1985	0.29	1889
3.87	1938	1.40	1902	0.65	1899	0.27	1900
3.69	1962	1.29	1905	0.63	1926	0.24	2002
3.24	1901	1.27	1993	0.63	1955	0.23	1939
3.05	1919	1.25	1884	0.62	1952	0.23	2003
3.01	1936	1.25	1999	0.62	1994	0.22	1953
2.90	1887	1.20	1976	0.60	1881	0.22	1984
2.80	1959	1.19	1960	0.59	1916	0.21	1981
2.74	1927	1.15	1880	0.57	1911	0.21	1991
2.69	1891	1.14	1872	0.56	1935	0.20	1886
2.59	1915	1.10	1871	0.56	1943	0.20	1933
2.59	1998	1.10	1873	0.53	1956	0.20	1966
2.30	1996	1.10	1893	0.52	1924	0.20	1995
2.20	1874	1.09	1963	0.51	1947	0.18	1921
2.11	1890	1.08	1929	0.47	1931	0.18	2001
2.10	1897	1.04	2006	0.45	1906	0.16	1910
2.01	1878	1.00	1876	0.45	1992	0.14	1972
2.01	1917	1.00	1903	0.43	1951	0.13	1907
1.98	1990	0.98	1978	0.41	1930	0.07	1928
1.90	1980	0.98	2000	0.41	1982	0.02	1875
1.88	1945	0.92	1968	0.40	1885	0.02	1988
1.74	1969	0.91	1909	0.38	1920	0.01	1912
1.74	1975	0.90	1932	0.35	1923	0.01	1964
1.73	1918	0.89	1941	0.34	1913	0.01	1965
1.71	1937	0.87	1870	0.34	1974	T	1888
1.70	1958	0.86	1914	0.33	1895	T	1896
1.66	1973	0.84	2005	0.33	1946	T	1967
1.58	1983	0.82	1979	0.33	1971	0.00	1877
1.57	1940	0.80	1883	0.32	1908	0.00	1879
1.56	2004	0.80	1957	0.32	1949	0.00	1882
1.49	1954	0.80	1989	0.32	1970		
1.48	1944	0.78	1987	0.31	1934		
1.47	1898	0.71	1977	0.30	1948		

## Wettest to Driest Marches

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
4.15	1907	0.98	1965	0.57	1888	0.20	1984
2.87	1995	0.97	1945	0.57	1920	0.19	1970
2.51	1918	0.97	1946	0.56	1925	0.19	1977
2.50	1882	0.96	1924	0.55	1930	0.16	1915
2.34	1928	0.96	1950	0.55	1993	0.15	1883
2.28	1891	0.92	2006	0.53	1903	0.15	2001
2.21	1998	0.90	1939	0.53	1942	0.13	1921
2.12	1904	0.88	1986	0.52	1979	0.12	1947
2.06	1938	0.84	1919	0.46	1989	0.11	1999
2.02	1952	0.84	1962	0.42	2002	0.10	1885
1.93	1967	0.84	1968	0.42	2005	0.09	1934
1.90	1881	0.83	1896	0.41	1963	0.08	1931
1.81	1943	0.83	1912	0.40	1961	0.07	1895
1.81	1954	0.82	1940	0.39	1872	0.07	1948
1.76	1958	0.81	1935	0.39	1890	0.07	1959
1.73	1902	0.80	1987	0.39	1901	0.07	1969
1.65	1911	0.76	1892	0.38	2000	0.07	1990
1.63	1996	0.76	1980	0.36	1976	0.06	1937
1.59	1975	0.75	1922	0.35	1926	0.05	1875
1.54	1971	0.74	1917	0.34	1933	0.05	1913
1.49	1978	0.74	1949	0.34	1953	0.05	1956
1.42	1991	0.73	1973	0.33	1916	0.04	1936
1.37	1927	0.72	1897	0.31	2003	0.04	1966
1.31	1983	0.72	1964	0.29	1923	0.03	1877
1.30	1884	0.70	1878	0.27	1909	0.03	1972
1.26	2004	0.70	1886	0.26	1908	0.01	1997
1.16	1974	0.70	1906	0.26	1941	T	1914
1.14	1982	0.69	1992	0.26	1957	T	1988
1.13	1944	0.67	1929	0.25	1870	0.00	1871
1.11	1905	0.65	1889	0.25	1955	0.00	1873
1.10	1874	0.65	1898	0.24	1951	0.00	1880
1.07	1985	0.59	1900	0.22	1894	0.00	1887
1.03	1899	0.59	1960	0.22	1910		
1.00	1876	0.58	1893	0.20	1879		
1.00	1994	0.58	1981	0.20	1932		

## Wettest to Driest Aprils

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
3.00	1880	0.60	1872	0.32	1911	0.11	1916
2.04	1958	0.60	1970	0.31	1938	0.11	1939
1.88	2006	0.60	1998	0.31	1945	0.10	1894
1.75	1900	0.59	1971	0.30	1871	0.10	1902
1.64	1935	0.56	1891	0.30	1890	0.10	1969
1.63	1952	0.55	1999	0.29	1949	0.09	1892
1.46	1905	0.53	1964	0.28	1917	0.08	1870
1.38	1956	0.52	1877	0.27	1942	0.06	1933
1.35	1931	0.51	1980	0.27	1961	0.06	1992
1.35	1983	0.50	1925	0.27	1965	0.05	1873
1.31	1896	0.50	1950	0.25	1919	0.05	1876
1.21	2002	0.49	1912	0.24	1984	0.05	1878
1.10	1920	0.49	1987	0.23	1974	0.05	1946
1.07	1951	0.48	1941	0.22	1997	0.05	1960
1.04	1903	0.47	1913	0.21	1932	0.04	1936
1.03	1923	0.47	1991	0.21	1937	0.03	1889
0.95	1934	0.45	1874	0.21	1954	0.03	1897
0.95	1967	0.44	1926	0.21	1957	0.03	1947
0.95	1988	0.44	1943	0.21	1981	0.03	1966
0.83	1879	0.42	1927	0.20	1875	0.03	1989
0.83	2003	0.41	1898	0.20	1944	0.03	1994
0.82	1963	0.41	1953	0.20	1976	0.02	1881
0.80	1885	0.41	1979	0.20	1978	0.02	1968
0.80	1940	0.40	1922	0.18	1887	0.01	1921
0.78	1906	0.40	1995	0.18	1909	0.01	1993
0.77	1986	0.39	1895	0.18	1924	T	1959
0.72	1907	0.38	1882	0.17	1955	T	1962
0.70	1914	0.38	1893	0.16	1918	T	1977
0.67	1948	0.35	1884	0.16	1996	T	1985
0.66	1928	0.35	1904	0.14	1888	T	2004
0.66	1929	0.34	1982	0.14	1910	0.00	1883
0.66	1930	0.34	2000	0.14	1972	0.00	1886
0.66	2001	0.33	1915	0.13	1973		
0.62	1975	0.33	1990	0.12	1899		
0.61	2005	0.32	1901	0.11	1908		



## Wettest to Driest Mays

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
2.89	1963	0.78	1980	0.28	1935	0.10	1922
2.72	1891	0.75	1956	0.27	1938	0.10	1976
2.57	1921	0.75	1973	0.27	1993	0.10	1982
2.38	1971	0.72	1931	0.26	1912	0.10	1992
2.29	1987	0.71	1905	0.26	1986	0.06	1984
1.84	1959	0.71	1908	0.25	1904	0.05	1873
1.82	1889	0.71	1951	0.25	1918	0.04	2003
1.81	1995	0.69	1923	0.25	1927	0.03	1940
1.79	1964	0.66	1933	0.25	1958	0.02	1881
1.73	1897	0.64	1939	0.24	1932	0.02	1937
1.66	1896	0.60	1882	0.24	1945	0.02	1952
1.64	1949	0.59	2005	0.23	2000	0.02	1954
1.60	1901	0.57	1895	0.22	1892	0.01	1929
1.44	1890	0.57	1981	0.21	1975	0.01	1974
1.40	1962	0.52	1915	0.21	1983	T	1902
1.39	1925	0.50	1907	0.20	1950	T	1910
1.39	1994	0.50	1991	0.20	1969	T	1916
1.35	1934	0.47	1967	0.20	1999	T	1920
1.33	1989	0.43	1930	0.20	2002	T	1924
1.25	1948	0.41	1899	0.19	1877	T	1936
1.24	1977	0.40	1878	0.19	1909	T	1943
1.20	1953	0.40	1883	0.19	1990	T	1960
1.18	1917	0.40	1885	0.18	1965	T	1970
1.18	1919	0.40	1887	0.17	1946	T	1985
1.07	1996	0.39	1900	0.16	1941	T	2001
1.03	1955	0.37	1944	0.16	1979	0.00	1871
1.02	1906	0.36	1870	0.14	1879	0.00	1872
1.02	1972	0.33	1966	0.14	1903	0.00	1874
1.00	1913	0.32	1911	0.13	1893	0.00	1875
0.95	1898	0.32	2004	0.13	1926	0.00	1876
0.91	1894	0.31	1978	0.13	1928	0.00	1880
0.91	1961	0.31	2006	0.13	1997	0.00	1884
0.83	1957	0.30	1942	0.12	1988		
0.82	1998	0.30	1947	0.11	1914		
0.79	1888	0.30	1968	0.10	1886		

## Wettest to Driest Junes

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
1.94	1920	0.55	1874	0.16	1968	0.01	1933
1.53	1989	0.53	1983	0.14	1918	0.01	1935
1.40	1932	0.52	1948	0.13	1870	T	1889
1.39	1998	0.48	1941	0.13	1949	T	1895
1.31	1938	0.47	1912	0.12	1875	T	1896
1.31	1965	0.45	1958	0.12	1980	T	1901
1.29	1969	0.41	1891	0.12	1985	T	1904
1.29	1995	0.40	1899	0.11	1888	T	1919
1.27	1892	0.40	1931	0.11	1916	T	1924
1.17	1997	0.39	1991	0.11	1928	T	1930
1.12	1929	0.38	2003	0.10	1871	T	1955
1.12	1987	0.37	2005	0.10	1879	T	1960
1.12	1992	0.35	1993	0.10	1887	T	1974
1.10	1963	0.34	1984	0.10	1926	T	1976
1.08	1900	0.31	1986	0.10	2002	T	1979
1.07	1982	0.30	1885	0.09	1952	T	1981
1.06	1894	0.29	1897	0.09	1971	T	2006
1.03	1977	0.29	1914	0.09	2001	0.00	1872
0.99	1923	0.29	1964	0.08	1942	0.00	1873
0.97	1945	0.26	1906	0.07	1947	0.00	1876
0.92	1922	0.26	1927	0.07	1973	0.00	1880
0.88	1970	0.25	1909	0.07	1978	0.00	1881
0.80	1884	0.25	1925	0.06	1917	0.00	1883
0.79	1940	0.24	1908	0.06	1939	0.00	1886
0.77	1936	0.24	1954	0.06	1957	0.00	1893
0.77	1953	0.23	1921	0.06	1999	0.00	1898
0.74	1913	0.23	2000	0.05	1878	0.00	1902
0.73	1950	0.22	1903	0.05	1910	0.00	1905
0.71	1996	0.22	1911	0.04	1962	0.00	1915
0.67	1951	0.21	1975	0.03	1937	0.00	1946
0.63	1907	0.20	1882	0.03	1966	0.00	1959
0.62	1934	0.20	2004	0.03	1990	0.00	1994
0.59	1988	0.18	1943	0.02	1877		
0.59	1967	0.18	1944	0.02	1956		
0.56	1961	0.18	1972	0.01	1890		

## Wettest to Driest Julys

(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
1.75	1913	0.28	1944	0.05	1959	T	1942
1.59	1911	0.27	1973	0.05	1968	T	1963
1.53	1908	0.25	1902	0.05	1970	T	1966
1.45	1910	0.25	1933	0.04	1915	T	1983
1.06	1971	0.24	1938	0.04	1917	T	1985
1.03	1896	0.23	1907	0.04	1932	T	1993
0.97	1925	0.23	2003	0.04	1950	T	1998
0.96	1976	0.22	1899	0.04	1982	T	2004
0.87	1960	0.22	1958	0.04	1991	0.00	1871
0.86	1986	0.22	1988	0.04	1997	0.00	1872
0.86	1990	0.22	1995	0.03	1923	0.00	1873
0.84	1946	0.21	1953	0.03	1957	0.00	1874
0.80	1949	0.20	1883	0.03	1975	0.00	1875
0.72	1952	0.20	1941	0.02	1924	0.00	1877
0.67	1906	0.20	1996	0.02	1935	0.00	1878
0.62	1939	0.19	1978	0.01	1972	0.00	1879
0.60	1943	0.18	1900	0.01	1981	0.00	1880
0.59	2005	0.17	1969	0.01	1987	0.00	1882
0.58	1912	0.16	1928	T	1876	0.00	1884
0.58	1979	0.15	1886	T	1891	0.00	1885
0.57	1967	0.15	1921	T	1892	0.00	1887
0.54	1980	0.15	1992	T	1893	0.00	1889
0.50	1940	0.13	1927	T	1897	0.00	1890
0.49	1956	0.13	1964	T	1901	0.00	1895
0.45	1888	0.12	2002	T	1904	0.00	1898
0.45	1984	0.10	1881	T	1909	0.00	1903
0.38	1962	0.10	1929	T	1914	0.00	1947
0.36	1937	0.10	1936	T	1916	0.00	1948
0.35	1955	0.10	1945	T	1918	0.00	1951
0.35	1965	0.10	1999	T	1919	0.00	1989
0.34	2006	0.09	1994	T	1920	0.00	2000
0.33	1922	0.08	1954	T	1926		
0.33	1974	0.07	1977	T	1930		
0.31	1894	0.07	2001	T	1931		
0.30	1961	0.05	1905	T	1934		

## Wettest to Driest Augusts

(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
1.65	1965	0.29	1904	0.08	1919	T	1956
1.60	1901	0.28	1925	0.08	1948	T	1960
1.37	1899	0.28	1992	0.08	1962	T	1969
1.22	1967	0.28	2004	0.07	1897	T	1993
1.08	1913	0.27	1888	0.07	1950	T	1995
1.03	1975	0.24	1991	0.07	1986	T	1997
1.01	2003	0.23	1945	0.04	1893	T	1998
0.96	1912	0.22	1927	0.04	1916	T	2001
0.95	1931	0.21	1990	0.04	1935	T	2006
0.82	1989	0.20	1908	0.02	1895	0.00	1872
0.82	1999	0.19	1934	0.02	1964	0.00	1873
0.82	2002	0.19	1974	0.02	1966	0.00	1874
0.79	1896	0.17	1953	0.02	1970	0.00	1875
0.79	1933	0.17	1963	0.02	1984	0.00	1876
0.79	2000	0.16	1890	0.01	1903	0.00	1877
0.78	1983	0.16	1898	0.01	1922	0.00	1879
0.73	1923	0.16	1996	0.01	1952	0.00	1880
0.73	1941	0.15	1906	0.01	1977	0.00	1881
0.62	1976	0.15	1978	0.01	1985	0.00	1882
0.56	1958	0.14	1972	0.01	1987	0.00	1883
0.53	1929	0.13	1951	0.01	1988	0.00	1884
0.48	1930	0.13	1968	T	1871	0.00	1886
0.48	1936	0.12	1917	T	1891	0.00	1887
0.48	1939	0.12	1947	T	1911	0.00	1889
0.48	1973	0.11	1894	T	1915	0.00	1892
0.47	1920	0.11	1949	T	1918	0.00	1910
0.47	1961	0.10	1878	T	1924	0.00	1937
0.42	1902	0.10	1885	T	1926	0.00	1940
0.38	1914	0.10	1921	T	1932	0.00	1944
0.38	1979	0.10	2005	T	1938	0.00	1957
0.36	1981	0.09	1900	T	1942	0.00	1994
0.33	1928	0.09	1909	T	1943		
0.32	1905	0.09	1959	T	1946		
0.32	1980	0.09	1971	T	1954		
0.30	1907	0.09	1982	T	1955		

## Wettest to Driest Septembers

(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
2.41	1918	0.39	1912	0.07	1938	T	1941
2.31	1982	0.39	1961	0.07	1944	T	1943
2.17	1998	0.37	1951	0.07	1981	T	1947
1.19	1989	0.35	1916	0.07	1999	T	1960
1.15	1930	0.35	1956	0.06	1915	T	1979
1.10	1976	0.34	1909	0.05	1907	T	1992
1.02	1950	0.31	1898	0.05	1914	T	1993
0.93	1896	0.31	1990	0.05	1937	T	1995
0.92	1975	0.30	1972	0.05	1953	T	2002
0.87	1890	0.28	1910	0.04	1932	T	2005
0.84	1925	0.28	1986	0.04	1959	0.00	1871
0.84	1939	0.24	1893	0.04	1984	0.00	1874
0.84	1983	0.24	1895	0.04	1988	0.00	1875
0.82	1967	0.20	1906	0.04	2000	0.00	1876
0.71	1904	0.19	1894	0.03	1929	0.00	1877
0.70	1888	0.18	1949	0.02	1897	0.00	1879
0.68	1978	0.18	1963	0.02	1924	0.00	1880
0.67	1900	0.15	1968	0.02	1942	0.00	1881
0.67	1952	0.15	1994	0.01	1948	0.00	1882
0.63	1931	0.13	1934	0.01	1969	0.00	1883
0.63	1985	0.12	1921	0.01	1970	0.00	1884
0.62	1955	0.12	1936	0.01	1973	0.00	1886
0.61	1957	0.11	1927	0.01	1977	0.00	1887
0.60	1991	0.10	1885	0.01	1987	0.00	1889
0.56	1940	0.10	1905	0.01	2003	0.00	1922
0.55	1997	0.10	1920	0.01	2004	0.00	1933
0.54	1891	0.10	1946	T	1872	0.00	1945
0.50	1965	0.10	1962	T	1873	0.00	1954
0.49	1908	0.10	1966	T	1899	0.00	1964
0.49	1958	0.10	1971	T	1903	0.00	1974
0.48	1923	0.09	1901	T	1911		
0.48	1980	0.09	1902	T	1917		
0.45	1996	0.09	2001	T	1926		
0.40	1878	0.08	1913	T	1928		
0.40	1919	0.07	1892	T	1935		

## Wettest to Driest Octobers

(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
2.14	1945	0.48	1940	0.16	1914	0.03	1929
1.74	1907	0.46	1909	0.16	1997	0.03	1970
1.65	1933	0.46	1985	0.15	1903	0.03	2003
1.65	1982	0.45	1992	0.15	1961	0.03	2005
1.58	2004	0.44	1900	0.15	1975	0.02	1877
1.56	1950	0.44	1971	0.14	1876	0.02	1886
1.55	1962	0.43	1923	0.14	1977	0.02	1893
1.44	1924	0.43	1989	0.14	1980	0.02	1965
1.42	1993	0.42	1920	0.14	2001	0.02	1988
1.30	1972	0.42	1999	0.12	1872	0.01	1968
1.27	1957	0.40	1969	0.12	2002	T	1888
1.25	1927	0.39	1921	0.11	1911	T	1891
1.13	1916	0.36	1889	0.11	1949	T	1905
1.11	1941	0.36	1983	0.10	1895	T	1913
1.09	1934	0.34	1998	0.10	1902	T	1915
1.08	1904	0.32	1943	0.10	1926	T	1917
1.00	1874	0.31	1979	0.10	1928	T	1954
1.00	1883	0.30	1878	0.10	1953	T	1958
0.96	1897	0.29	1938	0.09	1922	T	1959
0.96	1951	0.28	1908	0.09	1932	T	1966
0.89	1956	0.28	1976	0.08	1896	0.00	1871
0.82	1939	0.28	1996	0.08	1906	0.00	1873
0.75	1918	0.27	1892	0.08	1978	0.00	1875
0.72	1899	0.24	1898	0.07	1930	0.00	1879
0.71	1910	0.24	1919	0.07	1942	0.00	1880
0.71	1925	0.24	1963	0.06	1935	0.00	1881
0.69	1974	0.23	1991	0.06	1986	0.00	1884
0.64	1944	0.23	1994	0.06	1990	0.00	1885
0.64	1981	0.20	1936	0.05	1890	0.00	1887
0.60	1882	0.20	1937	0.04	1912	0.00	1995
0.60	1984	0.19	1931	0.04	1952		
0.56	1973	0.18	1960	0.04	1955		
0.54	1987	0.17	1947	0.04	1964		
0.51	1901	0.17	1948	0.04	1967		
0.51	1946	0.16	1894	0.04	2000		

## Wettest to Driest Novembers

(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
4.65	1892	0.95	1881	0.38	1934	0.10	1880
3.08	1983	0.89	1896	0.38	1958	0.10	1912
2.67	1875	0.89	1991	0.37	1918	0.07	1907
2.31	1926	0.89	1996	0.37	1987	0.07	1976
2.13	1981	0.86	1997	0.35	1886	0.06	1939
2.04	1946	0.83	2001	0.32	1941	0.06	1947
1.99	1988	0.77	1940	0.31	1903	0.06	1992
1.95	1888	0.77	1998	0.30	1879	0.05	1916
1.74	1889	0.76	1906	0.29	1908	0.04	1933
1.74	1973	0.74	1954	0.29	1928	0.04	1969
1.71	1982	0.73	1968	0.29	1943	0.03	1936
1.68	1984	0.72	1920	0.28	1915	0.02	1894
1.62	1965	0.68	1901	0.28	1980	0.02	1932
1.58	1944	0.68	1917	0.27	1974	0.02	1962
1.55	1885	0.64	1925	0.25	1873	0.02	1986
1.53	2004	0.64	1961	0.24	1911	0.01	1923
1.51	1913	0.63	1898	0.24	1971	0.01	1999
1.48	1900	0.63	1964	0.23	1977	T	1872
1.47	1970	0.62	1927	0.22	1967	T	1891
1.47	1994	0.61	1951	0.21	1955	T	1904
1.45	1960	0.60	1878	0.20	1921	T	1914
1.44	1963	0.60	1883	0.19	1938	T	1948
1.43	1950	0.58	1957	0.19	1995	T	1956
1.30	1909	0.55	1924	0.18	1919	0.00	1874
1.30	1978	0.55	1989	0.18	2005	0.00	1876
1.28	1935	0.54	1910	0.17	1895	0.00	1884
1.28	1949	0.50	1877	0.17	1945	0.00	1887
1.23	1985	0.50	1902	0.17	1953	0.00	1890
1.11	1937	0.50	1952	0.17	1979	0.00	1929
1.08	2002	0.47	1899	0.16	1897	0.00	1959
1.07	1930	0.45	1905	0.15	1990		
1.07	1966	0.43	1931	0.13	1993		
1.00	1972	0.42	1893	0.12	1975		
0.97	1922	0.40	1882	0.12	2003		
0.96	1942	0.40	2000	0.10	1871		

## Wettest to Driest Decembers

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
5.25	1955	1.60	1880	0.62	1935	0.19	1986
3.88	2005	1.60	1887	0.60	1885	0.18	1961
3.09	1913	1.58	1945	0.60	1898	0.17	1949
3.03	1922	1.52	1957	0.60	1962	0.16	1908
3.03	1996	1.49	1936	0.60	1980	0.16	1993
3.00	1919	1.49	1954	0.59	1987	0.16	1994
2.97	1971	1.47	1907	0.58	1997	0.15	1870
2.89	1964	1.47	1983	0.56	1942	0.15	1903
2.69	1941	1.45	1966	0.56	1974	0.15	1991
2.61	1892	1.44	1910	0.55	1967	0.14	2000
2.54	1977	1.27	1973	0.55	1985	0.12	1953
2.49	1871	1.26	1950	0.47	1924	0.11	1925
2.43	1906	1.22	2003	0.46	1900	0.11	1938
2.42	1909	1.19	1965	0.45	1901	0.09	1912
2.35	1921	1.14	1891	0.45	1932	0.08	1905
2.30	1889	1.10	1879	0.45	1959	0.08	1963
2.27	1995	1.09	1915	0.45	1990	0.07	1984
2.19	1931	1.05	1981	0.40	1918	0.07	1999
2.18	2002	1.04	1982	0.39	1946	0.05	1956
2.07	1969	1.03	1968	0.35	1926	0.04	1998
2.06	1933	0.99	1920	0.34	1939	0.02	1878
2.02	1979	0.97	1916	0.32	1893	0.01	1947
1.95	1951	0.89	1972	0.32	1911	0.01	1975
1.88	1894	0.87	1897	0.32	1928	0.01	1976
1.87	1992	0.84	1988	0.31	1896	T	1930
1.86	1872	0.83	1895	0.30	1875	T	1989
1.83	2001	0.82	1978	0.30	1886	0.00	1874
1.74	1929	0.80	1881	0.29	1923	0.00	1876
1.71	1940	0.77	1884	0.28	1927	0.00	1877
1.71	2004	0.76	1943	0.27	1917	0.00	1882
1.70	1937	0.75	1873	0.27	1934	0.00	1883
1.69	1890	0.72	1948	0.27	1944		
1.69	1899	0.70	1888	0.24	1958		
1.68	1952	0.70	1914	0.24	1960		
1.65	1970	0.63	1904	0.20	1902		



**Wettest to Driest Calendar Years**  
(1870 is missing)

Total Precip.	Year	Total Precip.	Year	Total Precip.	Year	Total Precip.	Year
13.73	1890	8.94	1986	6.70	1880	5.32	1926
13.23	1983	8.87	1958	6.68	1981	5.30	1988
12.56	1995	8.85	1918	6.58	1993	5.26	1990
12.21	1996	8.84	1945	6.55	1903	5.20	1994
12.03	1998	8.71	1914	6.53	1949	5.15	1932
11.92	1892	8.20	1899	6.42	1935	5.15	1991
11.75	1940	8.15	1933	6.42	1939	5.06	1976
11.57	1913	8.13	1927	6.41	1898	4.99	1985
11.36	1901	8.12	1951	6.41	1929	4.94	1902
11.30	1922	8.09	1931	6.32	1878	4.88	1942
11.27	1907	8.00	1897	6.24	1930	4.86	1871
11.16	1909	7.93	1941	6.17	1884	4.82	1886
11.10	1982	7.93	1978	6.06	1875	4.75	1885
11.05	1906	7.90	1900	6.03	1979	4.74	1893
10.93	1963	7.87	1925	5.98	1959	4.66	1912
10.70	1896	7.75	1997	5.97	1910	4.65	1928
10.63	1904	7.73	1964	5.89	1881	4.58	2003
10.58	1971	7.56	1889	5.83	1934	4.57	1953
10.57	1911	7.50	1987	5.78	1887	4.42	1999
10.44	1916	7.40	1888	5.78	1960	4.35	2001
10.40	1891	7.37	1957	5.71	2000	4.32	1924
10.22	1969	7.35	1937	5.70	1874	4.28	1984
9.89	1952	7.34	1989	5.69	1905	4.11	1872
9.72	1965	7.27	1894	5.68	1877	4.02	1879
9.64	1919	7.27	1921	5.62	1915	3.95	1883
9.61	1950	7.22	1923	5.59	1946	3.80	1948
9.47	1967	7.09	1956	5.53	1895	3.59	1876
9.41	2004	7.08	2002	5.52	1972	3.27	1966
9.39	2005	6.97	1944	5.48	1882	2.75	1873
9.38	1938	6.95	1970	5.45	1968	1.55	1947
9.21	1973	6.95	1975	5.43	1917		
9.20	1980	6.94	1954	5.42	1908		
9.19	1955	6.90	1936	5.38	1974		
9.05	1962	6.84	1977	5.37	1961		
9.01	1943	6.73	1920	5.36	1992		

## Wettest to Driest Water Years

(A water year = the precipitation from Oct. 1 through Sept. 30 of the following year.)  
 (example: 1889-90 water year is listed as 1890)  
 (1871 water year (1870-71) is missing)

Total Precip.	Water Year	Total Precip.	Water Year	Total Precip.	Water Year	Total Precip.	Water Year
16.39	1890	8.83	1973	6.49	1895	5.11	1915
12.72	1983	8.74	1927	6.46	1921	5.10	1912
12.59	1911	8.64	1978	6.42	1876	5.10	1954
12.48	1998	8.40	1900	6.42	1931	5.10	1985
12.45	1914	8.31	1906	6.40	1880	5.09	1933
12.10	1901	8.28	1918	6.40	1953	5.07	1999
11.96	1995	8.19	1975	6.35	1888	5.05	1994
11.80	1938	8.02	1920	6.31	1970	4.98	1976
11.65	1956	7.97	1908	6.30	1886	4.94	1957
11.62	1958	7.85	1962	6.27	1961	4.85	1887
11.51	1893	7.84	1934	6.27	1987	4.72	1872
11.34	1963	7.74	1919	6.23	1882	4.54	1991
11.26	1907	7.71	1909	6.20	1935	4.49	1968
11.19	1952	7.46	1910	6.15	1959	4.36	1960
11.18	1967	7.44	1945	6.09	1928	4.29	1977
11.00	1891	7.43	1974	6.06	1937	4.25	1947
10.91	1986	7.41	1942	5.98	1972	4.25	1992
10.68	1980	7.40	1932	5.97	1894	4.09	1875
10.58	1923	7.29	1897	5.96	2004	4.02	1926
10.52	1896	7.25	1993	5.93	1964	3.95	1988
10.52	1982	7.20	1913	5.92	1878	3.88	1981
10.47	1996	7.14	1936	5.92	1955	3.73	1873
10.45	1965	7.00	1884	5.86	1949	3.58	1966
10.35	1997	6.93	1898	5.85	1944	3.54	1879
10.15	1922	6.92	1950	5.84	1881	3.37	1885
10.12	2005	6.87	1905	5.81	1889	3.35	1883
10.08	1971	6.87	1930	5.79	1939	3.15	1948
10.01	1940	6.84	1984	5.78	1902	2.59	1924
9.66	1916	6.79	1899	5.73	1979	2.13	2001
9.53	1904	6.77	1941	5.70	1874		
9.48	1969	6.74	1903	5.63	2000		
9.23	1943	6.63	1917	5.58	1990		
9.21	1989	6.59	2003	5.53	1892		
8.87	1925	6.54	1946	5.35	1929		
8.85	1951	6.50	2002	5.30	1877		

## Wettest to Driest Autumns

**Autumn (seasonal) total precip. = (Sept. precip. + Oct. precip. + Nov. precip.)**

Total precip. Autumn		Total precip. Autumn		Total precip. Autumn		Total precip. Autumn	
5.67	1982	1.81	1940	1.08	1967	0.48	1979
4.99	1892	1.79	1904	1.06	1908	0.48	2000
4.28	1983	1.72	1939	1.06	1922	0.46	1903
4.01	1950	1.72	1991	1.06	2001	0.45	1969
3.53	1918	1.69	1933	1.05	1942	0.39	1928
3.28	1998	1.67	1962	1.04	1906	0.38	1977
3.12	2004	1.65	1885	1.00	1874	0.37	1886
2.84	1981	1.63	1960	1.00	1882	0.37	1894
2.67	1875	1.62	1996	0.96	1974	0.36	1986
2.65	1888	1.60	1883	0.95	1881	0.35	1911
2.65	1946	1.60	1934	0.92	1890	0.35	1936
2.60	1972	1.59	1913	0.92	1923	0.34	1915
2.59	1900	1.57	1949	0.92	1987	0.32	1953
2.46	1957	1.57	1997	0.90	1980	0.30	1879
2.41	1926	1.55	1993	0.89	1968	0.25	1873
2.32	1984	1.53	1910	0.87	1955	0.23	1947
2.32	1985	1.53	1916	0.87	1958	0.21	1914
2.31	1945	1.51	1970	0.82	1919	0.21	2005
2.31	1973	1.45	1976	0.78	1971	0.19	1995
2.29	1930	1.43	1941	0.74	1954	0.18	1948
2.29	1944	1.36	1937	0.71	1921	0.16	2003
2.19	1925	1.34	1935	0.69	1902	0.15	1932
2.17	1989	1.30	1878	0.68	1893	0.14	1876
2.14	1965	1.28	1901	0.68	1917	0.12	1872
2.10	1889	1.25	1931	0.67	1964	0.10	1871
2.10	1909	1.24	1920	0.61	1943	0.10	1880
2.06	1978	1.24	1956	0.55	1905	0.06	1929
2.05	1988	1.21	1952	0.55	1938	0.04	1959
2.01	1924	1.20	2002	0.54	1891	0.00	1884
1.98	1927	1.19	1899	0.53	1912	0.00	1887
1.94	1951	1.19	1975	0.52	1877		
1.90	1896	1.18	1898	0.52	1990		
1.86	1907	1.18	1961	0.51	1895		
1.86	1963	1.17	1966	0.51	1992		
1.85	1994	1.14	1897	0.50	1999		

## Wettest to Driest Winters

**Winter (seasonal) total precip. = (Dec. precip. + Jan. precip. + Feb. precip.)**

Total precip.	Winter	Total precip.	Winter	Total precip.	Winter	Total precip.	Winter
11.12	1889-90	4.20	1902-03	3.01	1943-44	1.93	1934-35
9.41	1913-14	4.20	1962-63	2.95	1883-84	1.89	1912-13
8.44	1915-16	4.12	1969-70	2.87	1932-33	1.84	1928-29
8.36	1955-56	4.09	1972-73	2.85	1959-60	1.84	1988-89
7.24	1910-11	4.08	1905-06	2.82	1933-34	1.80	1948-49
7.06	1996-97	4.00	1957-58	2.76	1954-55	1.66	1938-39
7.05	1921-22	3.87	1918-19	2.73	1970-71	1.66	1980-81
6.90	1968-69	3.84	1906-07	2.72	1874-75	1.65	1925-26
6.69	1979-80	3.84	1914-15	2.71	1952-53	1.60	1881-82
6.52	2005-06	3.80	1885-86	2.70	1875-76	1.60	1882-83
6.23	1937-38	3.80	1886-87	2.67	1950-51	1.57	1884-85
6.18	1900-01	3.74	2003-04	2.66	1981-82	1.46	1986-87
5.90	1995-96	3.70	1877-78	2.66	2001-02	1.39	1965-66
5.82	1908-09	3.70	1880-81	2.63	1893-94	1.39	1976-77
5.79	1985-86	3.70	1895-96	2.62	1907-08	1.37	1878-79
5.63	1939-40	3.68	1958-59	2.62	1974-75	1.37	1975-76
5.56	1992-93	3.67	1994-95	2.60	1989-90	1.36	1888-89
5.35	1903-04	3.63	1871-72	2.58	1967-68	1.34	1960-61
5.28	1922-23	3.57	1926-27	2.58	2002-03	1.15	1930-31
5.22	1892-93	3.57	1929-30	2.47	1953-54	1.11	1987-88
5.18	1977-78	3.56	1909-10	2.46	1899-00	1.06	1946-47
5.17	1942-43	3.56	1966-67	2.40	1944-45	0.99	1984-85
5.10	1936-37	3.51	1872-73	2.37	1898-99	0.97	1923-24
5.02	1894-95	3.48	1971-72	2.30	1978-79	0.84	1993-94
4.78	1941-42	3.46	1896-97	2.13	1917-18	0.77	1911-12
4.65	1931-32	3.42	1919-20	2.10	1945-46	0.77	1963-64
4.54	1964-65	3.35	1873-74	2.09	1924-25	0.73	1991-92
4.46	1951-52	3.33	1897-98	2.05	1956-57	0.67	1990-91
4.44	1890-91	3.32	1887-88	2.05	1983-84	0.63	2000-01
4.40	1876-77	3.21	1940-41	2.05	1998-99	0.49	1927-28
4.34	1982-83	3.21	1973-74	2.04	1904-05	0.32	1947-48
4.33	2004-05	3.19	1999-00	2.02	1870-71		
4.27	1997-98	3.12	1891-92	2.01	1920-21		
4.25	1935-36	3.10	1879-80	2.01	1949-50		
4.22	1961-62	3.03	1916-17	2.00	1901-02		

## Wettest to Driest Springs

**Spring (seasonal) total precip. = (March precip. + April precip. + May precip)**

Total precip. Spring		Total precip. Spring		Total precip. Spring		Total precip. Spring	
5.56	1891	2.27	1919	1.56	1899	0.90	1941
5.37	1907	2.25	1943	1.55	1874	0.86	1999
5.08	1995	2.24	1962	1.52	1913	0.85	1992
4.51	1971	2.20	1917	1.52	1945	0.83	1993
4.12	1963	2.18	1956	1.50	1888	0.81	1914
4.05	1958	2.15	1931	1.45	1955	0.81	2001
3.80	1896	2.13	1890	1.43	1965	0.80	1886
3.67	1952	2.05	1980	1.43	1977	0.79	1970
3.63	1998	2.04	1927	1.40	1974	0.74	1877
3.58	1987	2.04	1954	1.36	1981	0.69	1870
3.48	1882	2.02	1951	1.34	1929	0.66	1976
3.35	1967	2.01	1898	1.30	1885	0.65	1932
3.28	1905	2.01	1923	1.30	1957	0.64	1909
3.13	1928	2.00	1978	1.25	1922	0.64	1960
3.11	2006	1.99	1948	1.23	1894	0.59	1990
3.04	1964	1.95	1953	1.19	1946	0.58	1887
3.00	1880	1.94	1881	1.19	1972	0.55	1883
2.92	1918	1.91	1959	1.18	2003	0.50	1984
2.87	1983	1.91	1986	1.17	1879	0.45	1947
2.86	1996	1.83	1902	1.16	1968	0.44	1916
2.73	1900	1.83	2002	1.15	1878	0.40	1966
2.73	1935	1.82	1989	1.14	1924	0.37	1969
2.72	1904	1.71	1903	1.10	1942	0.36	1910
2.71	1921	1.70	1944	1.09	1893	0.36	1997
2.67	1949	1.67	1920	1.09	1979	0.30	1871
2.64	1938	1.66	1950	1.08	1908	0.29	1937
2.50	1889	1.65	1884	1.07	1892	0.25	1875
2.50	1906	1.65	1939	1.07	1985	0.10	1873
2.48	1897	1.65	1940	1.07	1988	0.08	1936
2.45	1925	1.64	1930	1.06	1933		
2.42	1975	1.62	2005	1.05	1876		
2.42	1994	1.61	1973	1.03	1895		
2.39	1934	1.58	1912	1.01	1915		
2.39	1991	1.58	1961	0.99	1872		
2.31	1901	1.58	1982	0.95	2000		
2.29	1911	1.58	2004	0.92	1926		

## Wettest to Driest Summers

**Summer (seasonal) total precip. = (June precip. + July precip. + Aug. precip.)**

Total precip. Summer		Total precip. Summer		Total precip. Summer		Total precip. Summer	
3.57	1913	1.26	1922	0.67	1902	0.17	1890
3.31	1965	1.24	1971	0.67	1914	0.16	1898
2.41	1920	1.24	1986	0.67	1991	0.16	2001
2.38	1967	1.23	1958	0.61	1927	0.15	1878
2.35	1989	1.21	1997	0.60	1928	0.15	1886
2.01	1912	1.20	1982	0.60	1948	0.15	1916
1.99	1899	1.16	1907	0.55	1874	0.14	1918
1.97	1908	1.16	1939	0.52	1974	0.14	1959
1.82	1896	1.15	1953	0.51	1956	0.13	1985
1.81	1911	1.14	1987	0.50	1962	0.12	1875
1.75	1923	1.11	1977	0.48	1921	0.10	1871
1.75	1929	1.10	1990	0.48	1930	0.10	1879
1.62	2003	1.08	1906	0.48	2004	0.10	1881
1.60	1901	1.07	1996	0.46	1944	0.10	1887
1.58	1976	1.06	2005	0.44	1964	0.10	1926
1.55	1938	1.05	1933	0.41	1891	0.09	1957
1.55	1992	1.04	1949	0.41	1978	0.09	1994
1.51	1995	1.04	2002	0.40	1885	0.08	1919
1.50	1910	1.02	2000	0.39	1937	0.08	1942
1.50	1925	0.98	1980	0.37	1905	0.07	1935
1.48	1894	0.98	1999	0.37	1981	0.05	1966
1.46	1969	0.96	1979	0.36	1897	0.04	1893
1.44	1932	0.95	1970	0.35	1955	0.04	1915
1.41	1941	0.87	1960	0.35	1993	0.02	1877
1.39	1998	0.84	1946	0.34	1909	0.02	1895
1.35	1900	0.84	1950	0.34	1968	0.02	1924
1.35	1931	0.83	1888	0.34	2006	Trace	1876
1.35	1936	0.82	1952	0.33	1972	Trace	1889
1.33	1961	0.82	1973	0.32	1954	0.00	1872
1.31	1983	0.82	1988	0.29	1904	0.00	1873
1.30	1945	0.81	1934	0.23	1903	0.00	1880
1.29	1940	0.81	1984	0.22	1917		
1.27	1892	0.80	1884	0.20	1882		
1.27	1963	0.80	1951	0.20	1883		
1.27	1975	0.78	1943	0.19	1947		

**Greatest number of consecutive days with precipitation:  
0.01 inch or greater**

Days	Inclusive Dates	Total Precip. / Greatest Daily Amt. (Date)
12	Feb. 27 – March 10, 1911	1.78 / 0.95 (March 7)
10	Jan. 9 – 18, 1980	2.58 / 1.14 (Jan. 13)
9	July 18 – 26, 1913	1.72 / 0.91 (July 23)
9	Feb. 5 – 13, 1978	0.98 / 0.34 (Feb. 10)
9	Feb. 12 – 20, 1986	4.62 / 1.06 (Feb. 19)
8	May 13 – 20, 1949	1.62 / 0.49 (May 14)
8	Feb. 14 – 21, 1980	1.74 / 0.53 (Feb. 21)
7	Sept. 27 – Oct. 3, 1918	1.36 / 0.32 (Oct. 3)
7	Nov. 21 – 27, 1926	2.01 / 0.65 (Nov. 24)
7	Feb. 12 – 18, 1927	2.21 / 0.78 (Feb. 16)
7	Jan. 9 – 15, 1930	0.42 / 0.13 (Jan. 9)
7	Jan. 6 – 12, 1940	1.97 / 0.60 (Jan. 10)
7	Jan. 22 – 28, 1942	1.39 / 0.49 (Jan. 27)
7	Jan. 10 – 16, 1952	1.39 / 0.56 (Jan. 12)
7	May 18 – 24, 1957	0.36 / 0.20 (May 18)
7	Jan. 20 – 26, 1997	1.95 / 0.86 (Jan. 22)
6	Feb. 19 – 24, 1918	1.28 / 0.54 (Feb. 21)
6	Nov. 30 – Dec. 5, 1919	2.29 / 1.30 (Dec. 2)
6	May 16 – 21, 1921	0.50 / 0.21 (May 18)
6	Dec. 22 – 27, 1921	1.50 / 0.58 (Dec. 25)
6	Feb. 15 – 20, 1922	0.93 / 0.67 (Feb. 20)
6	Jan. 15 – 20, 1933	1.53 / 0.70 (Jan. 18)
6	Dec. 25 – 30, 1951	1.34 / 0.76 (Dec. 28)
6	Nov. 13 – 18, 1957	0.35 / 0.21 (Nov. 14)
6	March 11 – 16, 1958	0.51 / 0.22 (March 14)
6	Aug. 15 – 20, 1958	0.53 / 0.12 (Aug. 18)
6	May 28 – June 2, 1961	1.43 / 0.75 (May 31)
6	Feb. 4 – 9, 1976	1.05 / 0.40 (Feb. 9)
6	Feb. 27 – March 4, 1991	0.94 / 0.39 (March 4)
6	Dec. 6 – 11, 1992	0.67 / 0.28 (Dec. 6)
6	Jan. 10 – 15, 1993	0.55 / 0.20 (Jan. 15)
6	Feb. 15 – 20, 1993	0.83 / 0.27 (Feb. 18)
6	Feb. 17 – 22, 1996	1.27 / 0.73 (Feb. 19)
6	Feb. 5 – 10, 1998	0.65 / 0.38 (Feb. 7)

**Greatest number of consecutive days with precipitation:  
0.10 inch or greater**

Days	Inclusive Dates	Total Precip. / Greatest Daily Amt. (Date)
7	Feb. 13 – 19, 1986	4.57 / 1.06 (Feb. 19)
6	Feb. 16 – 21, 1980	1.66 / 0.53 (Feb. 21)
5	Feb. 7 – 11, 1915	1.46 / 0.50 (Feb. 8)
5	Dec. 1 – 5, 1919	2.27 / 1.30 (Dec. 2)
5	Feb. 14 – 18, 1927	2.18 / 0.78 (Feb. 16)
5	Dec. 25 – 29, 1941	1.34 / 0.45 (Dec. 27)
4	Jan. 4 – 7, 1901	1.80 / 0.83 (Jan. 6)
4	Feb. 3 – 6, 1901	2.09 / 1.01 (Feb. 5)
4	March 16 – 19, 1907	1.30 / 0.66 (March 18)
4	Jan. 12 – 15, 1909	1.83 / 0.72 (Jan. 14)
4	Jan. 11 – 14, 1911	3.11 / 0.99 (Jan. 13)
4	Jan. 28 – 31, 1911	1.29 / 0.53 (Jan. 29)
4	Nov. 10 – 13, 1913	0.95 / 0.43 (Nov. 11)
4	Dec. 30, 1913 – Jan. 2, 1914	2.63 / 1.74 (Dec. 31)
4	Dec. 24 – 27, 1921	1.48 / 0.58 (Dec. 25)
4	Feb. 8 – 11, 1922	2.97 / 1.18 (Feb. 10)
4	Nov. 24 – 27, 1926	1.68 / 0.65 (Nov. 24)
4	March 24 – 27, 1928	1.75 / 0.71 (March 26)
4	Jan. 24 – 27, 1942	1.28 / 0.49 (Jan. 27)
4	Jan. 20 – 23, 1943	3.86 / 2.29 (Jan. 21)
4	Dec. 21 – 24, 1945	1.22 / 0.43 (Dec. 21)
4	Feb. 8 – 11, 1962	2.50 / 1.53 (Feb. 9)
4	Jan. 29 – Feb. 1, 1963	2.77 / 1.59 (Jan. 31)
4	Jan. 18 – 21, 1969	2.01 / 0.73 (Jan. 19)
4	Dec. 23 – 26, 1969	0.88 / 0.32 (Dec. 25)
4	Aug. 18 – 21, 1975	0.99 / 0.28 (Aug. 19)
4	Feb. 26 – March 1, 1983	0.76 / 0.22 (Feb. 28)
4	Feb. 17 – 20, 1993	0.72 / 0.27 (Feb. 18)
4	Dec. 30, 2005 – Jan. 2, 2006	3.07 / 1.42 (Dec. 31)



**Greatest number of consecutive days with precipitation:  
0.25 inch or greater**

Days	Inclusive Dates	Total Precip. / Greatest Daily Amt. (Date)
4	Jan. 11 – 14, 1911	3.11 / 0.99 (Jan. 13)
4	Nov. 24 – 27, 1926	1.68 / 0.65 (Nov. 24)
4	Jan. 20 – 23, 1943	3.86 / 2.29 (Jan. 21)
4	Jan. 18 – 21, 1969	2.01 / 0.73 (Jan. 19)
4	Dec. 30, 2005 – Jan. 2, 2006	3.07 / 1.42 (Dec. 31)
3	Jan. 4 – 6, 1901	1.60 / 0.83 (Jan. 6)
3	Feb. 3 – 5, 1901	1.96 / 1.01 (Feb. 5)
3	Jan. 13 – 15, 1909	1.71 / 0.72 (Jan. 14)
3	Dec. 30, 1909 – Jan. 1, 1910	1.98 / 1.24 (Dec. 31)
3	Jan. 28 – 30, 1911	1.07 / 0.53 (Jan. 29)
3	Feb. 8 – 10, 1915	1.26 / 0.50 (Feb. 8)
3	Jan. 8 – 10, 1916	1.35 / 0.54 (Jan. 8)
3	March 10 – 12, 1918	1.12 / 0.39 (March 10)
3	Feb. 8 – 10, 1922	2.81 / 1.18 (Feb. 10)
3	Feb 16 – 18, 1927	1.39 / 0.78 (Feb. 16)
3	Feb. 21 – 23, 1936	1.36 / 0.75 (Feb. 21)
3	Dec. 9 – 11, 1937	1.57 / 0.72 (Dec. 11)
3	Feb. 2 – 4, 1938	1.15 / 0.44 (Feb. 3)
3	Feb. 9 – 11, 1938	2.05 / 1.05 (Feb. 10)
3	Jan. 9 – 11, 1940	1.47 / 0.60 (Jan. 10)
3	Nov. 9 – 11, 1944	1.13 / 0.40 (Nov. 11)
3	Oct. 29 – 31, 1945	1.86 / 0.93 (Oct. 30)
3	May 13 – 15, 1949	1.19 / 0.49 (May 14)
3	Dec. 22 – 24, 1955	3.76 / 2.02 (Dec. 23)
3	May 21 – 23, 1959	1.77 / 0.88 (May 22)
3	Feb. 9 – 11, 1962	2.38 / 1.53 (Feb. 9)
3	Jan. 30 – Feb. 1, 1963	2.59 / 1.59 (Jan. 31)
3	Jan. 24 – 26, 1969	2.06 / 1.34 (Jan. 25)
3	Aug. 18 – 20, 1975	0.79 / 0.28 (Aug. 19)
3	Feb. 17 – 19, 1986	2.85 / 1.06 (Feb. 19)

**Greatest number of consecutive days with precipitation:  
0.50 inch or greater**

Days	Inclusive Dates	Total Precip. /	Greatest Daily Amt. (Date)
3	Jan. 11 – 13, 1911	2.79 / 0.99	(Jan. 13)
3	Feb. 8 – 10, 1922	2.81 / 1.18	(Feb. 10)
3	Dec. 22 – 24, 1955	3.76 / 2.02	(Dec. 23)
3	Feb. 17 – 19, 1986	2.85 / 1.06	(Feb. 19)
2	Jan. 17 – 18, 1896	1.41 / 0.82	(Jan. 17)
2	May 27 – 28, 1901	1.13 / 0.57	(May 28)
2	Jan. 12 – 13, 1906	2.23 / 1.38	(Jan. 12)
2	Dec. 10 – 11, 1906	1.51 / 0.86	(Dec. 10)
2	Jan. 8 – 9, 1909	1.65 / 1.00	(Jan. 8)
2	Jan. 13 – 14, 1909	1.34 / 0.72	(Jan. 14)
2	Nov. 13 – 14, 1909	1.11 / 0.57	(Nov. 14)
2	Jan. 2 – 3, 1916	2.50 / 1.76	(Jan. 3)
2	Jan. 8 – 9, 1916	1.05 / 0.54	(Jan. 8)
2	Feb. 9 – 10, 1919	1.86 / 1.35	(Feb. 10)
2	March 25 – 26, 1928	1.31 / 0.71	(March 26)
2	Jan. 18 – 19, 1933	1.39 / 0.70	(Jan. 18)
2	Dec. 10 – 11, 1937	1.22 / 0.72	(Dec. 11)
2	Feb. 10 – 11, 1938	1.77 / 1.05	(Feb. 10)
2	Jan. 10 – 11, 1940	1.10 / 0.60	(Jan. 10)
2	Jan. 21 – 22, 1943	3.26 / 2.29	(Jan. 21)
2	Feb. 1 – 2, 1945	1.31 / 0.81	(Feb. 1)
2	Jan. 25 – 26, 1956	1.70 / 1.03	(Jan. 25)
2	April 2 – 3, 1958	1.64 / 1.09	(April 2)
2	Feb. 9 – 10, 1962	2.13 / 1.53	(Feb. 9)
2	Jan. 30 – 31, 1963	2.16 / 1.59	(Jan. 31)
2	Dec. 5 – 6, 1966	1.17 / 0.67	(Dec. 6)
2	Dec. 20 – 21, 1969	1.13 / 0.60	(Dec. 21)
2	Dec. 23 – 24, 1979	1.28 / 0.68	(Dec. 23)
2	Feb. 14 – 15, 1986	1.28 / 0.75	(Feb. 15)
2	Oct. 19 – 20, 2004	1.23 / 0.70	(Oct. 19)

**Greatest number of consecutive days with precipitation:  
1.00 inch or greater**

Days	Inclusive Dates	Total Precip. /	Greatest Daily Amt. (Date)
2	Dec. 22 – 23, 1955	3.07 / 2.02	(Dec. 23)

**Greatest number of consecutive days without measurable precipitation  
(Trace or less)**

Days	Inclusive dates
129	July 19 – Nov. 24, 1995
111	July 27 – Nov. 14, 1954
105	June 21 – Oct. 3, 1993
97	July 2 – Oct. 7, 1943
95	June 29 – Sept. 30, 1926
91	May 29 – Aug. 28, 1919
84	May 17 – Aug. 8, 1930
84	July 2 – Sept. 24, 1932
84	Sept. 19 – Dec. 11, 1959
78	April 15 – July 2, 1924
76	July 19 – Oct. 3, 1911
74	June 27 – Sept. 8, 1942
73	May 8 – July 19, 1979
71	June 19 – Aug. 29, 1909
71	June 21 – Aug. 31, 1918
71	Aug. 19 – Oct. 28, 1933
71	July 31 – Oct. 8, 1960
71	June 24 – Sept. 2, 1998
71	Aug. 16 – Oct. 26, 2005
70	Aug. 26 – Nov. 4, 1917
70	April 23 – July 31, 1960
70	June 20 – Aug. 28, 1985
69	April 12 – June 20, 1916
69	May 9 – July 16, 1976
66	June 22 – Aug. 27, 1916
65	July 4 – Sept. 6, 1924
65	March 29 – June 1, 1985
65	April 21 – June 24, 2001
63	Aug. 6 – Oct. 7, 1974
63	July 23 – Sept. 23, 1994
62	Oct. 8 – Dec. 8, 1929
62	June 26 – Aug. 26, 1934
62	July 27 – Sept. 26, 1938
62	July 11 – Sept. 10, 2001
61	June 8 – Aug. 7, 1983
61	Aug. 3 – Oct. 2, 2002

## Excessive storms

For the purposes of this publication an “excessive storm” is defined as a period of consecutive days during which measurable precipitation is reported on each day, and the total precipitation for the period equals or exceeds 2.00 inches. Authors of other climatologies have defined excessive storms using different criteria (Masters-Bevan, 2000; Staudenmaier, et al., 2002). A location which receives a larger annual precipitation total than Reno would typically define an excessive storm with larger precipitation criteria. As a result of its dry climate, Reno tends not to receive precipitation during long periods of consecutive days. And the daily precipitation that Reno does receive is often of a relatively small amount.

As the following table shows, since 1906, an excessive storm of 2.00 inches of total precipitation or greater has occurred on only twenty-one occasions at Reno (an average of only once every five years).

### Excessive storms (2.00 inches or greater of total precipitation)

Feb. 12 – 20, 1986	4.62 / 1.06 (Feb. 19)
Jan. 20 – 23, 1943	3.86 / 2.29 (Jan. 21)
Dec. 21 – 24, 1955	3.77 / 2.02 (Dec. 23)
Jan. 11 – 15, 1911	3.14 / 0.99 (Jan. 13)
Dec. 30, 2005 – Jan. 2, 2006	3.07 / 1.42 (Dec. 31)
Feb. 8 – 11, 1922	2.97 / 1.18 (Feb. 10)
Jan. 12 – 16, 1906	2.93 / 1.38 (Jan. 12)
Jan. 31 – Feb. 6, 1901	2.87 / 1.01 (Feb. 5)
Jan. 29 – Feb. 1, 1963	2.77 / 1.59 (Jan. 31)
Dec. 21 – 25, 1971	2.71 / 1.38 (Dec. 25)
Jan. 1 – 4, 1916	2.64 / 1.76 (Jan. 3)
Dec. 30, 1913 – Jan. 2, 1914	2.63 / 1.74 (Dec. 31)
Jan. 9 – 18, 1980	2.58 / 1.14 (Jan. 13)
Feb. 7 – 11, 1962	2.56 / 1.53 (Feb. 9)
Nov. 30 – Dec. 5, 1919	2.29 / 1.30 (Dec. 2)
Feb. 12 – 18, 1927	2.21 / 0.78 (Feb. 16)
Feb. 8 – 11, 1938	2.10 / 1.05 (Feb. 10)
Jan. 18 – 22, 1969	2.06 / 0.73 (Jan. 19)
Jan. 24 – 26, 1969	2.06 / 1.34 (Jan. 25)
Nov. 21 – 27, 1926	2.01 / 0.65 (Nov. 24)
Feb. 9 – 11, 1919	2.00 / 1.35 (Feb. 10)

## **Snow**

Reno receives an average of 23.5 inches of snowfall each year (1971-2000 normals). Ninety percent of this total is received during the five-month period from November through March.

Accurate daily snowfall records for Reno generally begin in 1906 after the Weather Bureau took over responsibility for weather observation in Reno. Monthly snowfall data back to 1893 has been derived from historical data listed in Local Climatological Data sheets for Reno from the early 1950s.

It should be noted that Weather Bureau (and later National Weather Service) personnel took weather observations (including measurements of snowfall amounts) up until the mid-1990s when an automated weather observing system was installed at the Reno airport. This system did not measure snowfall. It was soon realized that snowfall data was an important component of climate information. In order to remedy this, in the spring of 2004 a cooperative observer near the airport was engaged to supply daily snowfall data again for Reno.

Reno does not often experience significant snowfall at the airport. However, in the foothills west and north of the Truckee Meadows (where the city of Reno is located) residents can receive large amounts. When Reno receives six inches of snow in the valley, there can be up to two to three feet of snow measured in the foothills at around 5,000 feet elevation. Thus Reno's airport snowfall amounts do not reflect what can be experienced in other parts of the city, especially at higher elevations. This is similar to other locations throughout the mountainous western United States.

The following tables list various information derived from Reno's snowfall data. In these tables may be found information relating to the largest snowfall amounts recorded for a calendar day at Reno, the snowiest and least snowy months from 1870 until present, wettest and driest calendar years and water years, and wettest and driest seasons. Other tables list the longest periods of consecutive days of precipitation of various amounts, and longest periods during which no measurable precipitation was recorded at Reno.

**Greatest daily snowfall (calendar day) 10.0 inches or greater**

Date	Amount (in.)
Jan. 17, 1916	22.5
Jan. 12, 1911	19.7
Feb. 16, 1990	18.0
Dec. 30, 2004	16.4
Nov. 10, 1985	15.2
Dec. 25, 1971	14.9
March 1, 1902	14.4
March 14, 1952	13.6
Feb. 10, 1959	13.2
Feb. 10, 1922	12.6
Nov. 2, 1935	11.6
Dec. 3, 1919	11.5
Jan. 24, 1967	11.2
Jan. 28, 1903	11.0
Jan. 25, 1956	11.0
Jan. 30, 1968	10.9
Dec. 2, 1919	10.6
Nov. 14, 1909	10.5
Jan. 19, 1933	10.5
Jan. 8, 2005	10.5
Feb. 5, 1901	10.1
Jan. 30, 1937	10.1
Feb. 16, 1897	10.0
Jan. 16, 1913	10.0
Jan. 27, 1916	10.0

## Comparisons of monthly snowfall

### Snowiest to Least Snowy Octobers

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
6.8	1899	T	1938	0.0	1926	0.0	1983
5.1	1971	T	1939	0.0	1927	0.0	1986
3.8	1924	T	1942	0.0	1929	0.0	1987
3.4	1984	T	1946	0.0	1930	0.0	1988
2.0	1920	T	1948	0.0	1931	0.0	1990
2.0	1957	T	1951	0.0	1934	0.0	1992
1.9	1956	T	1953	0.0	1936	0.0	1994
1.4	1919	T	1954	0.0	1937	0.0	1995
1.2	1985	T	1961	0.0	1940	0.0	2005
1.1	1928	T	1962	0.0	1941	NA	1996
1.1	1949	T	1965	0.0	1943	NA	1997
1.1	1981	T	1972	0.0	1944	NA	1998
0.8	1978	T	1975	0.0	1945	NA	1999
0.4	1916	T	1980	0.0	1947	NA	2000
0.4	1960	T	1989	0.0	1950	NA	2001
0.3	1921	T	1991	0.0	1952	NA	2002
0.3	1979	T	1993	0.0	1955	NA	2003
0.2	1970	T	2004	0.0	1958		
T	1900	0.0	1902	0.0	1959		
T	1901	0.0	1903	0.0	1963		
T	1906	0.0	1904	0.0	1964		
T	1908	0.0	1905	0.0	1966		
T	1909	0.0	1907	0.0	1967		
T	1910	0.0	1911	0.0	1968		
T	1912	0.0	1913	0.0	1969		
T	1923	0.0	1914	0.0	1973		
T	1925	0.0	1915	0.0	1974		
T	1932	0.0	1917	0.0	1976		
T	1933	0.0	1918	0.0	1977		
T	1935	0.0	1922	0.0	1982		

## Snowiest to Least Snowy Novembers

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
16.5	1985	2.2	1965	T	1910	0.0	1904
15.3	1994	2.0	1960	T	1912	0.0	1917
14.0	1935	2.0	1981	T	1914	0.0	1929
12.3	1909	1.9	1919	T	1916	0.0	1932
9.7	1978	1.7	1975	T	1918	0.0	1939
8.7	1961	1.6	1906	T	1923	0.0	1959
8.6	1982	1.6	1943	T	1924	0.0	1974
8.5	1922	1.3	1944	T	1926	0.0	1976
7.0	2004	1.3	1953	T	1934	0.0	1995
5.7	1983	1.3	1968	T	1937	NA	1996
5.3	1905	1.2	1952	T	1941	NA	1997
5.2	1964	1.1	1908	T	1948	NA	1998
5.0	1991	1.0	1902	T	1950	NA	1999
4.4	1946	1.0	1949	T	1954	NA	2000
4.1	1958	0.9	1927	T	1956	NA	2001
4.1	1988	0.8	1987	T	1962	NA	2002
3.4	1931	0.7	1928	T	1966	NA	2003
3.3	1920	0.6	1933	T	1967		
3.3	1930	0.6	1945	T	1969		
3.1	1951	0.5	1940	T	1970		
3.1	1957	0.5	1977	T	1972		
3.1	1963	0.4	1938	T	1979		
3.0	1947	0.4	1990	T	1980		
3.0	1984	0.3	1913	T	1989		
2.7	1955	0.3	1942	T	1992		
2.5	1900	0.2	1911	T	1993		
2.5	1973	0.2	1936	T	2005		
2.4	1915	0.2	1971	0.0	1899		
2.3	1921	0.2	1986	0.0	1901		
2.3	1925	0.1	1907	0.0	1903		



## Snowiest to Least Snowy Decembers

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
33.8	1919	5.6	1977	1.4	1991	T	1960
25.6	1971	5.0	1911	1.3	1984	T	1962
21.6	2004	4.0	1918	1.2	1905	T	1975
21.0	1941	4.0	1954	1.2	1923	T	1980
15.4	1970	4.0	1974	1.2	1935	T	1989
14.3	1936	3.9	1924	1.1	1934	0.0	1899
14.3	1992	3.9	1927	1.0	1946	0.0	1900
13.2	1906	3.6	2005	1.0	1947	0.0	1929
12.6	1921	3.3	1949	1.0	1963	NA	1995
12.5	1916	3.1	1910	0.9	1937	NA	1996
11.7	1988	3.1	1957	0.7	1961	NA	1997
11.2	1922	2.8	1926	0.6	1912	NA	1998
9.8	1965	2.8	1932	0.6	1986	NA	1999
9.2	1914	2.8	1933	0.5	1915	NA	2000
9.2	1955	2.8	1969	0.5	1976	NA	2001
9.1	1968	2.7	1990	0.5	1983	NA	2002
9.1	1978	2.6	1908	0.5	1994	NA	2003
9.0	1913	2.4	1907	0.4	1942		
8.8	1972	2.3	1901	0.4	1956		
8.6	1948	2.3	1909	0.3	1939		
8.5	1951	2.3	1940	0.3	1993		
8.0	1964	2.1	1944	0.1	1981		
7.7	1920	2.1	1953	T	1902		
7.2	1931	2.1	1979	T	1903		
6.9	1943	2.0	1928	T	1904		
6.8	1952	1.9	1967	T	1917		
6.8	1973	1.8	1959	T	1930		
6.3	1987	1.8	1982	T	1938		
5.8	1945	1.4	1925	T	1950		
5.8	1966	1.4	1985	T	1958		

## Snowiest to Least Snowy Januarys

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
65.7	1916	8.2	1988	2.9	1915	0.1	1991
40.5	1911	8.2	1995	2.7	1975	T	1934
28.5	1933	7.8	1955	2.6	1961	T	1936
26.6	1937	6.7	1984	2.4	1924	T	1948
22.9	1923	6.6	1944	2.0	1939	T	1966
22.9	1993	6.5	1929	2.0	1946	T	1970
22.3	1914	6.4	1979	1.9	1908	0.0	1900
21.1	2005	6.0	1909	1.8	1904	0.0	1905
20.0	1956	5.8	1940	1.8	1987	0.0	1986
19.9	1913	5.7	1972	1.7	1938	NA	1997
18.1	1952	5.6	1990	1.7	1963	NA	1998
16.7	1930	5.4	1922	1.5	1902	NA	1999
16.2	1907	5.2	1965	1.5	1925	NA	2000
15.9	1932	4.7	1964	1.5	1983	NA	2001
15.4	1960	4.7	1980	1.2	1996	NA	2002
14.4	1949	4.4	1921	1.0	1945	NA	2003
13.7	1950	4.4	1957	1.0	1958	NA	2004
13.5	1901	4.3	1947	0.8	1942		
12.9	1910	4.3	1985	0.7	1977		
12.5	1982	4.3	2006	0.6	1941		
12.4	1967	4.2	1927	0.5	1928		
12.4	1968	3.9	1981	0.5	1959		
11.9	1973	3.8	1931	0.5	1994		
11.5	1903	3.7	1912	0.4	1953		
11.4	1971	3.7	1954	0.4	1992		
10.7	1969	3.6	1919	0.3	1917		
10.5	1951	3.5	1962	0.3	1976		
10.1	1935	3.3	1989	0.3	1978		
8.7	1906	3.0	1926	0.1	1918		
8.7	1974	3.0	1943	0.1	1920		

## Snowiest to Least Snowy Februaries

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
32.5	1922	6.1	1980	1.4	1966	T	1967
32.4	1938	6.0	1937	1.4	1977	T	1981
26.6	1901	5.6	1913	1.3	1992	T	1986
23.5	1969	5.6	1955	1.1	1930	T	2005
22.1	1959	5.2	1994	1.0	1964	0.0	1905
21.6	1990	5.1	1978	1.0	1974	0.0	1963
19.0	1975	4.9	1923	1.0	1983	0.0	1988
15.8	1976	4.9	1971	0.9	1921	0.0	1991
13.8	1944	4.7	1946	0.9	1940	NA	1996
13.7	1918	4.6	1958	0.8	1985	NA	1997
13.3	1962	4.2	1902	0.7	1914	NA	1998
13.3	1989	4.0	1926	0.7	1972	NA	1999
13.2	1919	3.9	1979	0.6	1916	NA	2000
13.0	1993	3.6	1951	0.6	1928	NA	2001
11.2	1936	3.4	1908	0.6	1952	NA	2002
9.5	1915	3.4	1948	0.6	1970	NA	2003
9.2	1929	3.4	1956	0.4	1925	NA	2004
8.2	1973	3.2	1920	0.1	1912		
8.1	1932	3.0	1960	0.1	1924		
8.1	1949	2.5	1933	0.1	1950		
8.0	1917	2.3	1982	T	1900		
8.0	1987	2.2	1968	T	1906		
7.4	1954	2.1	1910	T	1907		
7.3	1903	2.1	1935	T	1931		
7.2	1909	2.0	1904	T	1934		
7.1	1927	2.0	1953	T	1941		
6.7	1911	1.9	1995	T	1947		
6.4	1945	1.7	1939	T	1957		
6.4	2006	1.7	1942	T	1961		
6.3	1943	1.5	1984	T	1965		

## Snowiest to Least Snowy Marches

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
29.0	1952	4.4	1922	1.2	1950	T	1988
21.2	1907	3.8	1908	1.2	1977	T	1992
20.1	1918	3.6	1923	1.1	1961	T	1994
15.6	1967	3.6	1925	0.8	1905	T	2005
15.5	1902	3.6	1944	0.8	1913	0.0	1904
15.4	1945	3.5	1968	0.7	1940	0.0	1931
13.1	1954	3.4	1963	0.7	1956	0.0	1934
12.3	1962	3.3	1919	0.6	1941	0.0	1993
12.1	1975	3.1	1901	0.5	1906	NA	1996
10.0	1958	3.1	1909	0.5	1933	NA	1997
9.9	1917	3.1	1916	0.4	1936	NA	1998
9.2	1964	3.0	1983	0.4	1953	NA	1999
8.2	1912	2.7	1949	0.4	1957	NA	2000
8.2	1924	2.5	1951	0.4	1966	NA	2001
8.0	1935	2.5	1987	0.2	1910	NA	2002
7.8	1976	2.2	1981	0.2	1932	NA	2003
7.6	1946	2.2	1989	0.2	1948	NA	2004
7.6	1980	2.1	1930	0.2	1955		
7.0	1971	2.0	1903	0.2	1972		
7.0	1985	2.0	1939	0.2	1978		
6.7	1982	2.0	1942	0.2	1979		
6.5	1973	2.0	1990	0.1	1921		
6.5	1974	1.9	1969	0.1	1959		
6.1	2006	1.8	1970	0.1	1984		
6.0	1911	1.7	1995	T	1914		
5.0	1926	1.6	1928	T	1915		
4.7	1920	1.5	1929	T	1937		
4.6	1927	1.5	1938	T	1943		
4.6	1965	1.4	1986	T	1947		
4.5	1991	1.2	1900	T	1959		

## Snowiest to Least Snowy Aprils

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
12.7	1931	1.0	1956	T	1914	0.0	1910
7.5	1958	1.0	1972	T	1916	0.0	1926
6.8	1929	1.0	2006	T	1921	0.0	1949
6.8	1967	0.9	1925	T	1933	0.0	1952
6.6	1928	0.8	1930	T	1934	0.0	1959
6.6	1964	0.8	1954	T	1935	0.0	1990
6.0	1903	0.8	1982	T	1936	0.0	1992
5.9	1963	0.8	1989	T	1938	0.0	1993
5.8	1922	0.7	1917	T	1940	NA	1996
4.8	1975	0.7	1919	T	1942	NA	1997
4.5	1905	0.7	1923	T	1943	NA	1998
4.2	1927	0.7	1973	T	1945	NA	1999
3.3	1971	0.6	1960	T	1946	NA	2000
3.0	1953	0.6	1961	T	1947	NA	2001
2.9	1983	0.5	1906	T	1951	NA	2002
2.7	1976	0.4	1901	T	1962	NA	2003
2.6	1974	0.4	1932	T	1965	NA	2004
2.3	1970	0.4	1986	T	1966		
2.0	1920	0.3	1969	T	1968		
1.7	1918	0.2	1915	T	1977		
1.7	1950	0.2	1948	T	1981		
1.5	1944	0.1	1937	T	1984		
1.5	1955	0.1	1957	T	1985		
1.4	1941	0.1	1978	T	1987		
1.2	1980	T	1902	T	1988		
1.1	1979	T	1904	T	1991		
1.1	1995	T	1908	T	1994		
1.0	1900	T	1911	T	2005		
1.0	1924	T	1912	0.0	1907		
1.0	1939	T	1913	0.0	1909		

## Snowiest to Least Snowy Mays

Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year	Total Snowfall	Year
14.1	1964	T	1921	T	1988	0.0	1966
9.0	1962	T	1922	T	1989	0.0	1972
6.3	1971	T	1923	T	1993	0.0	1981
3.5	1905	T	1926	T	1994	0.0	1984
3.5	1983	T	1929	T	1995	0.0	1987
2.9	1977	T	1939	T	2006	0.0	1990
2.5	1955	T	1941	0.0	1900	0.0	1992
2.2	1938	T	1942	0.0	1901	0.0	2005
2.2	1975	T	1944	0.0	1902	NA	1996
1.7	1915	T	1945	0.0	1904	NA	1997
1.6	1991	T	1946	0.0	1909	NA	1998
1.5	1930	T	1947	0.0	1914	NA	1999
1.5	1967	T	1948	0.0	1919	NA	2000
1.1	1903	T	1949	0.0	1920	NA	2001
0.7	1927	T	1950	0.0	1924	NA	2002
0.5	1912	T	1951	0.0	1925	NA	2003
0.5	1982	T	1953	0.0	1928	NA	2004
0.4	1978	T	1956	0.0	1931		
0.3	1979	T	1960	0.0	1932		
0.1	1933	T	1963	0.0	1934		
0.1	1959	T	1965	0.0	1935		
T	1906	T	1968	0.0	1936		
T	1907	T	1969	0.0	1937		
T	1908	T	1970	0.0	1940		
T	1910	T	1973	0.0	1943		
T	1911	T	1974	0.0	1952		
T	1913	T	1976	0.0	1954		
T	1916	T	1980	0.0	1957		
T	1917	T	1985	0.0	1958		
T	1918	T	1986	0.0	1961		

## Snow in June, July, August, and September

### June

0.2 inches	1970	Trace	1907	1923	1950
0.2 inches	1995		1908	1932	1954
			1914	1939	1963
			1921	1944	1975

All other Junes have reported 0.0 inches of snowfall.

### July

All Julys have reported 0.0 inches of snowfall.

### August

All Augusts have reported 0.0 inches of snowfall.

### September

1.5 inches	1982	Trace	1931	1959	1986
			1935	1971	1993
			1948	1978	
			1952	1985	

All other Septembers have reported 0.0 inches of snowfall.

## Greatest Snowfall Seasons

(July through June)  
(Snowiest to Least Snowy)

Total Snowfall	Season	Total Snowfall	Season	Total Snowfall	Season	Total Snowfall	Season
72.3	1915-16	31.4	1916-17	20.0	1908-09	7.1	1938-39
63.3	1921-22	31.3	1957-58	20.0	1967-68	6.7	1960-61
59.3	1951-52	29.8	1909-10	19.8	1930-31	6.7	1976-77
56.3	1910-11	29.2	1989-90	19.8	1984-85	6.1	1980-81
52.2	1906-07	28.9	1902-03	18.4	1920-21	6.0	1993-94
51.8	1922-23	28.9	1994-95	17.7	1911-12	5.4	1940-41
50.2	1992-93	28.4	1953-54	16.6	1950-51	3.8	1903-04
49.7	2004-05	28.3	1975-76	16.2	1905-06	3.4	1933-34
48.5	1970-71	28.1	1973-74	15.7	1925-26	NA	1995-96
47.5	1919-20	27.8	1928-29	15.3	1987-88	NA	1996-97
47.5	1961-62	26.9	1912-13	14.5	1983-84	NA	1997-98
47.2	1936-37	26.9	1958-59	14.1	1924-25	NA	1998-99
46.8	1968-69	26.8	1935-36	14.1	1927-28	NA	1999-00
46.1	1900-01	26.2	1944-45	13.8	1952-53	NA	2000-01
44.8	1974-75	26.0	1981-82	13.8	1965-66	NA	2001-02
42.1	1966-67	24.8	1918-19	13.1	1986-87	NA	2002-03
39.7	1963-64	23.8	1982-83	12.9	1923-24	NA	2003-04
38.7	1937-38	23.6	1926-27	12.2	1977-78		
38.5	1971-72	23.5	1901-02	11.6	1907-08		
37.0	1955-56	23.5	1914-15	11.0	1962-63		
36.1	1972-73	23.0	1964-65	10.0	1942-43		
35.6	1917-18	22.2	1929-30	9.7	1946-47		
35.4	1988-89	22.1	1949-50	9.3	1990-91		
35.2	1931-32	22.0	1979-80	9.0	1899-00		
34.4	1932-33	21.6	1954-55	8.8	1904-05		
34.0	1943-44	21.4	2005-06	8.4	1947-48		
33.8	1948-49	21.3	1934-35	8.1	1991-92		
32.5	1941-42	20.9	1985-86	7.7	1939-40		
32.3	1913-14	20.8	1959-60	7.7	1969-70		
31.5	1978-79	20.7	1945-46	7.2	1956-57		



## Snowiest to Least Snowy Autumns

**Autumn (seasonal) total snowfall = (Sept. snowfall + Oct. snowfall + Nov. snowfall)**

Total snowfall Autumn		Total snowfall Autumn		Total snowfall Autumn	
17.7	1985	2.2	1965	Trace	1926
15.3	1994	2.1	1949	Trace	1932
14.0	1935	1.9	1956	Trace	1934
12.3	1909	1.8	1928	Trace	1937
10.5	1978	1.7	1975	Trace	1939
10.1	1982	1.6	1906	Trace	1941
8.7	1961	1.6	1943	Trace	1948
8.5	1922	1.3	1944	Trace	1950
7.0	2004	1.3	1953	Trace	1954
6.8	1899	1.3	1968	Trace	1959
6.4	1984	1.2	1952	Trace	1962
5.7	1983	1.1	1908	Trace	1966
5.3	1905	1.0	1902	Trace	1967
5.3	1920	0.9	1927	Trace	1969
5.3	1971	0.8	1987	Trace	1972
5.2	1964	0.6	1933	Trace	1980
5.1	1957	0.6	1945	Trace	1989
5.0	1991	0.5	1940	Trace	1992
4.4	1946	0.5	1977	Trace	1993
4.1	1958	0.4	1916	Trace	2005
4.1	1988	0.4	1938	0.0	1903
3.8	1924	0.4	1990	0.0	1904
3.4	1931	0.3	1913	0.0	1917
3.3	1919	0.3	1942	0.0	1929
3.3	1930	0.3	1979	0.0	1974
3.1	1951	0.2	1911	0.0	1976
3.1	1963	0.2	1936	0.0	1995
3.1	1981	0.2	1970	N/A	1996
3.0	1947	0.2	1986	N/A	1997
2.7	1955	0.1	1907	N/A	1998
2.6	1921	Trace	1901	N/A	1999
2.5	1900	Trace	1910	N/A	2000
2.5	1973	Trace	1912	N/A	2001
2.4	1915	Trace	1914	N/A	2002
2.4	1960	Trace	1918	N/A	2003
2.3	1925	Trace	1923		

## Snowiest to Least Snowy Winters

**Winter (seasonal) total snowfall = (Dec. snowfall + Jan. snowfall + Feb. snowfall)**

Total snowfall	Winter	Total snowfall	Winter	Total snowfall	Winter
66.8	1915-16	17.7	1928-29	7.0	1939-40
50.5	1921-22	17.5	1961-62	6.7	1963-64
50.3	1910-11	17.4	1954-55	6.4	1984-85
50.2	1992-93	17.3	1909-10	6.0	1993-94
46.9	1936-37	17.1	1949-50	5.8	1924-25
43.3	1968-69	16.5	1967-68	5.3	1946-47
42.7	2004-05	16.5	1973-74	5.0	1927-28
40.1	1900-01	16.1	1975-76	4.8	1956-57
39.0	1922-23	15.8	1908-09	4.4	1947-48
37.1	1919-20	14.9	1981-82	4.3	1982-83
35.0	1937-38	14.5	1987-88	3.9	1980-81
33.8	1932-33	14.3	2005-06	3.8	1903-04
32.6	1955-56	14.1	1926-27	3.8	1930-31
32.0	1913-14	14.1	1950-51	3.7	1923-24
32.0	1971-72	13.8	1917-18	3.7	1938-39
31.7	1970-71	13.3	1934-35	3.4	1969-70
31.2	1931-32	13.2	1953-54	3.1	1991-92
31.1	1948-49	13.2	1964-65	2.9	1940-41
29.4	1906-07	13.0	1920-21	2.8	1933-34
28.9	1972-73	12.9	1979-80	2.8	1990-91
28.3	1988-89	12.5	1945-46	2.6	1960-61
27.3	1943-44	12.4	1935-36	2.6	1976-77
27.2	1951-52	11.2	1965-66	1.7	1962-63
27.2	1989-90	11.0	1977-78	1.4	1985-86
26.1	1912-13	10.6	1994-95	Trace	1899-00
25.7	1974-75	10.4	1986-87	Trace	1904-05
23.5	1941-42	9.9	1905-06	N/A	1995-96
22.6	1958-59	9.7	1942-43	N/A	1996-97
21.6	1914-15	9.5	1944-45	N/A	1997-98
20.8	1916-17	9.2	1952-53	N/A	1998-99
20.8	1918-19	8.8	1911-12	N/A	1999-00
20.2	1959-60	8.7	1957-58	N/A	2000-01
19.4	1978-79	8.7	1983-84	N/A	2001-02
18.8	1902-03	8.4	1925-26	N/A	2002-03
18.2	1966-67	8.0	1901-02	N/A	2003-04
17.8	1929-30	7.7	1907-08		

## Snowiest to Least Snowy Springs

**Spring (seasonal) total snowfall = (March snowfall + April snowfall + May snowfall)**

Total snowfall	Spring	Total snowfall	Spring	Total snowfall	Spring
29.9	1964	5.1	1944	1.0	1906
29.0	1952	5.0	1926	1.0	1948
23.9	1967	4.6	1965	0.8	1913
21.8	1918	4.5	1925	0.7	1940
21.3	1962	4.4	1930	0.7	1978
21.2	1907	4.3	1923	0.6	1932
19.1	1975	4.2	1955	0.6	1933
17.5	1958	4.1	1970	0.6	1960
16.6	1971	4.1	1977	0.5	1957
15.5	1902	4.0	1919	0.4	1936
15.4	1945	3.8	1908	0.4	1966
13.9	1954	3.7	1938	0.2	1910
12.7	1931	3.5	1901	0.2	1959
10.6	1917	3.5	1968	0.1	1921
10.5	1976	3.4	1953	0.1	1937
10.2	1922	3.1	1909	0.1	1984
9.5	1927	3.1	1916	Trace	1904
9.4	1983	3.0	1939	Trace	1914
9.3	1963	3.0	1989	Trace	1934
9.2	1924	2.9	1950	Trace	1943
9.1	1903	2.8	1995	Trace	1947
9.1	1974	2.7	1949	Trace	1988
8.8	1905	2.5	1951	Trace	1992
8.8	1980	2.5	1987	Trace	1993
8.7	1912	2.2	1900	Trace	1994
8.3	1929	2.2	1969	Trace	2005
8.2	1928	2.2	1981	N/A	1996
8.0	1935	2.0	1941	N/A	1997
8.0	1982	2.0	1942	N/A	1998
7.6	1946	2.0	1990	N/A	1999
7.2	1973	1.9	1915	N/A	2000
7.1	2006	1.8	1986	N/A	2001
7.0	1985	1.7	1956	N/A	2002
6.7	1920	1.7	1961	N/A	2003
6.1	1991	1.6	1979	N/A	2004
6.0	1911	1.2	1972		

## **Snowfall During Summer**

**(June, July, August)**

Snowfall (as opposed to hail) has not been reported at Reno during July and August since 1893. Snowfall has been reported in June during the following years:

0.2 inches	1970
0.2 inches	1995
Trace	1907
Trace	1908
Trace	1914
Trace	1921
Trace	1923
Trace	1932
Trace	1939
Trace	1944
Trace	1950
Trace	1954
Trace	1963
Trace	1975

**Greatest number of consecutive days with snowfall:  
0.1 inch or greater**

Days	Inclusive Dates	Total Snowfall / Greatest Daily Amt. (Date)
8	Feb. 17 – 24, 1918	12.9 / 3.5 (Feb. 21)
7	Jan. 31 – Feb. 6, 1901	28.4 / 10.1 (Feb. 5)
7	Dec. 23 – 29, 1941	20.0 / 6.5 (Dec. 27)
7	March 10 – 16, 1958	6.1 / 2.2 (March 14)
6	Feb. 16 – 21, 1897	22.1 / 10.0 (Feb. 16)
6	Dec. 19 – 24, 1913	6.0 / 3.5 (Dec. 24)
6	Jan. 15 – 20, 1933	19.1 / 10.5 (Jan. 19)
6	Jan. 11 – 16, 1952	13.8 / 4.4 (Jan. 11)
6	Feb. 4 – 9, 1976	15.1 / 5.1 (Feb. 4)
5	Jan. 10 – 14, 1911	37.9 / 19.7 (Jan. 12)
5	Dec. 1 – 5, 1919	33.6 / 11.5 (Dec. 3)
5	Feb. 12 – 16, 1927	6.7 / 3.5 (Feb. 15)
5	Dec. 27 – 31, 1936	14.2 / 5.3 (Dec. 28)
5	Jan. 31 – Feb. 4, 1938	15.6 / 8.6 (Feb. 3)
5	Feb. 20 – 24, 1944	5.9 / 3.3 (Feb. 22)
5	Nov. 8 – 12, 1985	16.3 / 15.2 (Nov. 10)
4	Jan. 12 – 15, 1907	11.8 / 6.8 (Jan. 14)
4	Jan. 24 – 27, 1908	1.4 / 0.5 (Jan. 25)
4	Jan. 14 – 17, 1910	5.7 / 3.5 (Jan. 16)
4	Feb. 27 – March 2, 1911	5.2 / 1.8 (March 2)
4	Jan. 12 – 15, 1914	8.6 / 6.0 (Jan. 13)
4	Jan. 1 – 4, 1916	10.2 / 4.1 (Jan. 4)
4	Dec. 22 – 25, 1916	7.6 / 5.5 (Dec. 24)
4	Dec. 22 – 25, 1921	6.6 / 5.2 (Dec. 25)
4	Jan. 22 – 25, 1923	16.5 / 9.2 (Jan. 24)
4	Feb. 11 – 14, 1926	3.5 / 1.7 (Feb. 12)
4	Jan. 9 – 12, 1930	3.1 / 1.9 (Jan. 10)
4	Jan. 10 – 13, 1949	3.4 / 2.5 (Jan. 13)
4	Jan. 24 – 27, 1956	17.8 / 11.0 (Jan. 25)
4	Jan. 9 – 12, 1960	4.7 / 3.0 (Jan. 10)
4	Dec. 12 – 15, 1965	3.0 / 2.4 (Dec. 12)
4	Feb. 23 – 26, 1969	17.3 / 8.0 (Feb. 24)
4	Jan. 18 – 21, 1973	3.7 / 1.3 (Jan. 19)
4	Jan. 4 – 7, 1974	7.1 / 4.5 (Jan. 6)
4	Feb. 10 – 13, 1978	4.7 / 3.8 (Feb. 10)
4	Jan. 30 – Feb. 2, 1979	2.3 / 1.4 (Feb. 2)
4	March 16 – 19, 1982	2.4 / 1.6 (March 17)
4	March 21 – 24, 1983	1.8 / 0.9 (March 23)
4	Jan. 13 – 16, 1984	6.7 / 3.5 (Jan. 15)
4	Feb. 22 – 25, 1987	8.0 / 6.2 (Feb. 23)
4	Feb. 9 – 12, 1989	3.5 / 1.6 (Feb. 11)
4	Jan. 10 – 13, 1993	6.1 / 2.4 (Jan. 12)
4	Dec. 29, 2004 – Jan. 1, 2005	22.2 / 16.4 (Dec. 30)

**Greatest number of consecutive days with snowfall:  
0.5 inch or greater**

Days	Inclusive Dates	Total Snowfall / Greatest Daily Amt. (Date)
7	Jan. 31 – Feb. 6, 1901	28.4 / 10.1 (Feb. 5)
5	Feb. 20 – 24, 1918	12.2 / 3.5 (Feb. 21)
5	Dec. 1 – 5, 1919	33.6 / 11.5 (Dec. 3)
5	Jan. 16 – 20, 1933	19.0 / 10.5 (Jan. 19)
5	Feb. 20 – 24, 1944	5.9 / 3.3 (Feb. 22)
4	Jan. 11 – 14, 1911	37.7 / 19.7 (Jan. 12)
4	Feb. 27 – March 2, 1911	5.2 / 1.8 (March 2)
4	Jan. 12 – 15, 1914	8.6 / 6.0 (Jan. 13)
4	Jan. 1 – 4, 1916	10.2 / 4.1 (Jan. 4)
4	Jan. 22 – 25, 1923	16.5 / 9.2 (Jan. 24)
4	Dec. 26 – 29, 1941	19.5 / 6.5 (Dec. 27)
4	March 11 – 14, 1958	4.2 / 2.2 (March 14)
4	Feb. 23 – 26, 1969	17.3 / 8.0 (Feb. 24)
4	Feb. 4 – 7, 1976	11.9 / 5.1 (Feb. 4)
4	Feb. 9 – 12, 1989	3.5 / 1.6 (Feb. 11)
3	Jan. 16 – 18, 1895	13.5 / 8.0 (Jan. 17)
3	Feb. 16 – 18, 1897	20.5 / 10.0 (Feb. 16)
3	Jan. 31 – Feb. 2, 1903	5.5 / 3.0 (Feb. 2)
3	March 23 – 25, 1907	12.2 / 9.0 (March 23)
3	Feb. 28 – March 1, 1908	4.1 / 2.2 (March 1)
3	Jan. 14 – 16, 1910	5.6 / 3.5 (Jan. 16)
3	Jan. 17 – 19, 1914	10.0 / 6.5 (Jan. 18)
3	Jan. 27 – 29, 1916	14.7 / 10.0 (Jan. 27)
3	March 5 – 7, 1918	12.7 / 9.1 (March 7)
3	Dec. 9 – 11, 1920	3.7 / 1.8 (Dec. 10)
3	Feb. 9 – 11, 1922	27.4 / 12.6 (Feb. 10)
3	Feb. 12 – 14, 1926	3.4 / 1.7 (Feb. 12)
3	Feb. 14 – 16, 1927	6.4 / 3.5 (Feb. 15)
3	April 22 – 24, 1931	12.7 / 9.4 (April 23)
3	Jan. 23 – 25, 1933	8.1 / 4.3 (Jan. 24)
3	Feb. 23 – 25, 1936	4.8 / 2.8 (Feb. 25)
3	Jan. 28 – 30, 1937	17.0 / 10.1 (Jan. 30)
3	Jan. 10 – 12, 1940	3.0 / 1.5 (Jan. 10)
3	March 28 – 30, 1946	2.0 / 1.0 (March 30)
3	Feb. 1 – 3, 1949	3.8 / 2.6 (Feb. 1)
3	Feb. 5 – 7, 1949	2.4 / 1.0 (Feb. 5)
3	Jan. 14 – 16, 1952	5.0 / 2.0 (Jan. 14 and 15)
3	Jan. 24 – 26, 1956	17.5 / 11.0 (Jan. 25)
3	Feb. 10 – 12, 1959	21.9 / 13.2 (Feb. 10)
3	Feb. 23 – 25, 1962	5.5 / 4.0 (Feb. 25)
3	Jan. 20 – 22, 1964	4.7 / 3.0 (Jan. 21)
3	March 11 – 13, 1967	13.7 / 7.3 (March 12)
3	Dec. 21 – 23, 1971	7.5 / 4.5 (Dec. 22)
3	Jan. 27 – 29, 1981	3.9 / 2.4 (Jan. 29)
3	March 26 – 28, 1985	4.2 / 2.1 (March 27)
3	Dec. 22 – 24, 1988	9.2 / 6.6 (Dec. 24)
3	Jan. 5 – 7, 1993	8.1 / 4.1 (Jan. 7)
3	Feb. 15 – 17, 1993	7.1 / 3.0 (Feb. 17)
3	Dec. 30, 2004 – Jan. 1, 2005	21.9 / 16.4 (Dec. 30)

**Greatest number of consecutive days with snowfall:  
1.0 inch or greater**

Days	Inclusive Dates	Total Snowfall /	Greatest Daily Amt. (Date)
4	Feb. 3 – 6, 1901	20.6 /	10.1 (Feb. 5)
4	Jan. 11 – 14, 1911	37.7 /	19.7 (Jan. 12)
4	Jan. 1 – 4, 1916	10.2 /	4.1 (Jan. 4)
4	Jan. 22 – 25, 1923	16.5 /	9.2 (Jan. 24)
4	Dec. 26 – 29, 1941	19.5 /	6.5 (Dec. 27)
4	Feb. 4 – 7, 1976	11.9 /	5.1 (Feb. 4)
3	Jan. 16 – 18, 1895	13.5 /	8.0 (Jan. 17)
3	Feb. 16 – 18, 1897	20.5 /	10.0 (Feb. 16)
3	March 23 – 25, 1907	12.2 /	9.0 (March 23)
3	Jan. 14 – 16, 1910	5.6 /	3.5 (Jan. 16)
3	Feb. 20 – 22, 1918	8.4 /	3.5 (Feb. 21)
3	Dec. 1 – 3, 1919	25.6 /	11.5 (Dec. 3)
3	Feb. 9 – 11, 1922	27.4 /	12.6 (Feb. 10)
3	Feb. 14 – 16, 1927	6.4 /	3.5 (Feb. 15)
3	April 22 – 24, 1931	12.7 /	9.4 (April 23)
3	Jan. 18 – 20, 1933	17.9 /	10.5 (Jan. 19)
3	Jan. 28 – 30, 1937	17.0 /	10.1 (Jan. 30)
3	Jan. 14 – 16, 1952	5.0 /	2.0 (Jan. 14 and 15)
3	Jan. 24 – 26, 1956	17.5 /	11.0 (Jan. 25)
3	Feb. 10 – 12, 1959	21.9 /	13.2 (Feb. 10)
3	March 11 – 13, 1967	13.7 /	7.3 (March 12)
3	Feb. 23 – 25, 1969	16.7 /	8.0 (Feb. 24)
3	Dec. 21 – 23, 1971	7.5 /	4.5 (Dec. 22)
3	Feb. 15 – 17, 1993	7.4 /	3.0 (Feb. 17)

**Greatest number of consecutive days with snowfall:  
1.5 inches or greater**

Days	Inclusive Dates	Total Snowfall /	Greatest Daily Amt. (Date)
4	Jan. 11 – 14, 1911	37.7 /	19.7 (Jan. 12)
4	Dec. 26 – 29, 1941	19.5 /	6.5 (Dec. 27)
4	Feb. 4 – 7, 1976	11.9 /	5.1 (Feb. 4)
3	Jan. 16 – 18, 1895	13.5 /	8.0 (Jan. 17)
3	Feb. 16 – 18, 1897	20.5 /	10.0 (Feb. 16)
3	Feb. 3 – 5, 1901	19.6 /	10.1 (Feb. 5)
3	Jan. 2 – 4, 1916	9.1 /	4.1 (Jan. 4)
3	Feb. 20 – 22, 1918	8.4 /	3.5 (Feb. 21)
3	Dec. 1 – 3, 1919	25.6 /	11.5 (Dec. 3)
3	Feb. 9 – 11, 1922	27.4 /	12.6 (Feb. 10)
3	Jan. 22 – 24, 1923	15.2 /	9.2 (Jan. 24)
3	April 22 – 24, 1931	12.7 /	9.4 (April 23)
3	Jan. 18 – 20, 1933	17.9 /	10.5 (Jan. 19)
3	Jan. 28 – 30, 1937	17.0 /	10.1 (Jan. 30)
3	Feb. 10 – 12, 1959	21.9 /	13.2 (Feb. 10)
3	March 11 – 13, 1967	13.7 /	7.3 (March 12)
3	Feb. 23 – 25, 1969	16.7 /	8.0 (Feb. 24)
3	Feb. 15 – 17, 1993	7.4 /	3.0 (Feb. 17)

**Greatest number of consecutive days with snowfall:  
2.0 inches or greater**

Days	Inclusive Dates	Total Snowfall /	Greatest Daily Amt. (Date)
4	Jan. 11 – 14, 1911	37.7 /	19.7 (Jan. 12)
4	Dec. 26 – 29, 1941	19.5 /	6.5 (Dec. 27)
4	Feb. 4 – 7, 1976	11.9 /	5.1 (Feb. 4)
3	Jan. 16 – 18, 1895	13.5 /	8.0 (Jan. 17)
3	Feb. 16 – 18, 1897	20.5 /	10.0 (Feb. 16)
3	Feb. 3 – 5, 1901	19.6 /	10.1 (Feb. 5)
3	Jan. 2 – 4, 1916	9.1 /	4.1 (Jan. 4)
3	Feb. 20 – 22, 1918	8.4 /	3.5 (Feb. 21)
3	Dec. 1 – 3, 1919	25.6 /	11.5 (Dec. 3)
3	Feb. 9 – 11, 1922	27.4 /	12.6 (Feb. 10)
3	Jan. 22 – 24, 1923	15.2 /	9.2 (Jan. 24)
3	Jan. 18 – 20, 1933	17.9 /	10.5 (Jan. 19)
3	Feb. 10 – 12, 1959	21.9 /	13.2 (Feb. 10)
3	Feb. 23 – 25, 1969	16.7 /	8.0 (Feb. 24)

**Greatest number of consecutive days with snowfall:  
5.0 inches or greater**

Days	Inclusive Dates	Total Snowfall /	Greatest Daily Amt. (Date)
3	Feb. 9 – 11, 1922	27.4 /	12.6 (Feb. 10)
3	Dec. 26 – 28, 1941	17.0 /	6.5 (Dec. 27)
2	Jan. 12 – 13, 1911	28.3 /	19.7 (Jan. 12)
2	Jan. 15 – 16, 1913	19.0 /	10.0 (Jan. 16)
2	Dec. 2 – 3, 1919	22.1 /	11.5 (Dec. 3)
2	Jan. 25 – 26, 1956	16.5 /	11.0 (Jan. 25)
2	Feb. 10 – 11, 1959	19.5 /	13.2 (Feb. 10)
2	Feb. 24 – 25, 1969	13.4 /	8.0 (Feb. 24)
2	Jan. 7 – 8, 2005	16.4 /	10.5 (Jan. 8)

**Greatest number of consecutive days with snowfall:  
10.0 inches or greater**

Days	Inclusive Dates	Total Snowfall /	Greatest Daily Amt. (Date)
2	Dec. 2 – 3, 1919	22.1 /	11.5 (Dec. 3)



## Excessive snowstorms

For the purposes of this publication an “excessive snowstorm” is defined as a period of consecutive days during which measurable snowfall is reported on each day, and the total snowfall for the period equals or exceeds 15.0 inches. As with the definition of excessive storms, authors of other climatologies have defined excessive snowstorms using different criteria (Staudenmaier, et al., 2002). A location which receives a larger annual snowfall total than Reno would typically define an excessive snowstorm with larger snowfall criteria.

As the following table shows, since 1893, an excessive snowstorm of 15.0 inches (or greater) of total snowfall has occurred on only twenty-two occasions at Reno.

### Excessive snowstorms (15.0 inches or greater of total snowfall)

Jan. 10 – 14, 1911	37.9 / 19.7 (Jan. 12)
Dec. 1 – 5, 1919	33.6 / 11.5 (Dec. 3)
Jan. 31 – Feb. 6, 1901	28.4 / 10.1 (Feb. 5)
Feb. 9 – 11, 1922	27.4 / 12.6 (Feb. 10)
Jan. 17 – 18, 1916	25.5 / 22.5 (Jan. 17)
Dec. 29, 2004 – Jan. 1, 2005	22.2 / 16.4 (Dec. 30)
Feb. 16 – 21, 1897	22.1 / 10.0 (Feb. 16)
Feb. 10 – 12, 1959	21.9 / 13.2 (Feb. 10)
Feb. 16 – 18, 1990	21.1 / 18.0 (Feb. 16)
Dec. 23 – 29, 1941	20.0 / 6.5 (Dec. 27)
Jan. 15 – 20, 1933	19.1 / 10.5 (Jan. 19)
Jan. 15 – 16, 1913	19.0 / 10.0 (Jan. 16)
Jan. 24 – 27, 1956	17.8 / 11.0 (Jan. 25)
Feb. 23 – 26, 1969	17.3 / 8.0 (Feb. 24)
March 14 – 15, 1952	17.1 / 13.6 (March 14)
Jan. 28 – 30, 1937	17.0 / 10.1 (Jan. 30)
Jan. 22 – 25, 1923	16.5 / 9.2 (Jan. 24)
Jan. 7 – 8, 2005	16.4 / 10.5 (Jan. 8)
Nov. 8 – 12, 1985	16.3 / 15.2 (Nov. 10)
Jan. 31 – Feb. 4, 1938	15.6 / 8.6 (Feb. 3)
March 1 – 3, 1902	15.5 / 14.4 (March 1)
Feb. 4 – 9, 1976	15.1 / 5.1 (Feb. 4)

**Miscellaneous information**

**Average number of days with thunderstorms:**

(Period of record 1943 - 2005)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
0.0	0.0	0.1	0.5	2.0	2.8	3.4	2.8	1.3	0.6	0.0	0.0	13.5

**Average number of days with skies:**

(Period of record 1943 - 1995)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Clear	8.2	6.9	8.0	8.3	11.7	16.5	22.4	22.1	20.6	15.6	9.5	8.4	158.2
Partly cloudy	7.1	7.4	9.2	9.9	9.8	7.9	6.0	6.4	5.8	7.7	7.9	7.7	92.8
Cloudy	15.7	13.9	13.8	11.8	9.5	5.6	2.5	2.5	3.6	7.7	12.7	14.9	114.2

**Percent possible sunshine:**

(Period of record 1943 - 1987)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
65	68	75	80	81	85	92	92	91	83	70	64	79

**Average number of days with dense fog (visibility ¼ mile or less):**

(Period of record 1943 - 2005)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
2.1	0.8	0.3	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.6	2.5	6.9

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## References

- Barry, R. G., 2005: Alpine Climate Change and the Cryospheric Responses: An Introduction, in de Jong, C., D. Collins, and R. Ranzi, eds., *Climate and Hydrology in Mountain Areas*, John Wiley & Sons, Ltd., Chichester, UK, 315 p.
- Glickman, T. S., ed., 2000: *Glossary of Meteorology (2<sup>nd</sup> edition)*, American Meteorological Society, Boston, MA, 855 p.
- Houghton, J. G., 1969: *Characteristics of Rainfall in the Great Basin*, Univ. of Nevada System, Desert Research Institute, Reno, NV, 205 p.
- \_\_\_\_\_, C. M. Sakamoto, and R. O. Gifford, 1975: *Nevada's Weather and Climate*. Univ. of Nevada, Nevada Bureau of Mines and Geology, Reno, NV, Special Publication 2, 78 p.
- Landsberg, H., 1966: *Physical Climatology (2<sup>nd</sup> edition)*, Gray Printing Co., DuBois, PA, 446 p.
- Masters-Bevan, L., 2000: *Climate of Sacramento, California (7<sup>th</sup> rev.)*, U. S. Dept. of Commerce, NOAA Technical Memorandum NWS WR-266, 74 p.
- Oliver, J. E., and J. J. Hidore, 2002: *Climatology: An Atmospheric Science (2<sup>nd</sup> edition)*, Prentice Hall, Upper Saddle River, NJ, 410 p.
- Sellers, W. D., 1965: *Physical Climatology*, University of Chicago Press, Chicago, IL, 272 p.

- Staudenmaier, M., Jr., R. Preston, P. Sorenson, 2002: *Climate of Flagstaff, Arizona*, (3<sup>rd</sup> rev.), U. S. Dept. of Commerce, NOAA Technical Memorandum NWS WR-95, 65 p.
- Trewartha, G. T., 1981: *The Earth's Problem Climates* (2<sup>nd</sup> edition), Univ. of Wisconsin Press, Madison, WI, 371 p.
- \_\_\_\_\_, and L. H. Horn, 1980: *An Introduction to Climate* (5<sup>th</sup> edition), McGraw-Hill, New York, 416 p.
- U. S. Department of Commerce, 2005: *WFO Non-Precipitation Weather Products Specification*, National Weather Service Instruction 10-515, 53 p.
- Warner, T. T., 2004: *Desert Meteorology*, Cambridge University Press, New York, 595 p.
- Whitnah, D. R., 1961: *A History of the United States Weather Bureau*, University of Illinois Press, Urbana, IL, 267 p.

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