U.S. Department of Commerce	Climatagraphy	National Climatic Data Center
National Oceanic & Atmospheric Administration	Chinatography	Federal Building
National Environmental Satellite, Data,	of the United States	151 Patton Avenue
and Information Service		Asheville, North Carolina 28801
	No. 20	www.ncdc.noaa.gov
Station: NEWPORT BEACH HARBOR, CA	1971-2000	COOP ID: 046175

Climate Division: CA 6

NWS Call Sign: 3L3

Elevation: 10 Feet Lat: 33°36N

Lon: 117°53W

									r												
	Mea	n (1)						Extr	emes					Degree Base Te	Days (1) emp 65		Mean	Numb	er of D	ays (3)	
Month	Daily Max	Daily Min	Mean	Highest Daily(2)	Year	Day	Highest Month(1) Mean	Year	Lowest Daily(2)	Year	Day	Lowest Month(1) Mean	Year	Heating	Cooling	Max >= 100	Max >= 90	Max >= 50	Max <= 32	Min <= 32	Min <= 0
Jan	63.6	48.2	55.9	87	1983	11	59.7	1981	29	1937	22	51.6	1972	284	3	.0	.0	31.0	.0	.1	.0
Feb	63.8	49.6	56.7	89	1954	7	60.2	1980	28	1966	26	52.9	1990	236	3	.0	.0	28.1	.0	@	.0
Mar	63.6	51.2	57.4	91	1951	14	61.1	1978	33	1953	2	54.3	1991	224	3	.0	.0	31.0	.0	.0	.0
Apr	65.5	53.5	59.5	98	1989	5	63.0	1992	38+	1970	29	55.2	1975	171	5	.0	.1	30.0	.0	.0	.0
May	66.1	57.3	61.7	90	1967	14	66.0	1984	40	1970	9	58.0	1991	128	25	.0	.0	31.0	.0	.0	.0
Jun	68.4	60.2	64.3	102	1981	15	70.4	1981	48+	1967	3	60.7	1991	76	55	.0	.1	30.0	.0	.0	.0
Jul	71.4	63.1	67.3	106	1960	21	71.5	1984	49	1940	9	64.0	1991	25	95	.0	.0	31.0	.0	.0	.0
Aug	73.0	64.4	68.7	94+	1991	13	74.3	1998	52	1941	8	65.2	1975	30	143	.0	.1	31.0	.0	.0	.0
Sep	72.9	63.2	68.1	107	1963	26	75.6	1984	49+	1954	20	64.8	1991	34	126	.0	.5	30.0	.0	.0	.0
Oct	71.2	59.0	65.1	96	1965	21	70.0	1983	32	1971	30	62.0	1971	66	68	.0	.4	31.0	.0	@	.0
Nov	67.7	52.2	60.0	94	1950	3	63.7	1976	34	1958	17	55.5	1994	167	15	.0	.0	30.0	.0	.0	.0
Dec	64.2	48.0	56.1	94	1998	16	59.7	1977	32	1971	30	51.6	1971	278	2	.0	.1	31.0	.0	@	.0
Ann	67.6	55.8	61.7	107	Sep 1963	26	75.6	Sep 1984	28	Feb 1966	26	51.6+	Jan 1972	1719	543	.0	1.3	365.1	.0	.1	.0

+ Also occurred on an earlier date(s)

@ Denotes mean number of days greater than 0 but less than .05

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Issue Date: February 2004

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1934-2001

(3) Derived from 1971-2000 serially complete daily data

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

COOP ID: 046175

Station: NEWPORT BEACH HARBOR, CA

Climate Division: CA 6

NWS Call Sign: 3L3

Elevation: 10 Feet

Lat: 33°36N

Lon: 117°53W

		Precipitation																						
			Р	recipi	tatio	on Total	S			М	lean N of D	lumbo ays (3	er)	Proba	bility th	nat the n	Preci	pitatio annual 1 indic	on Pro	babilit ation wil aount	ies (1) Il be equ	ual to or	less that	n the
	Mea Medi	ans/ ans(1)				Extremes	5			D	aily Pre	cipitatio	n		Th	M ese values	onthly/An s were det	inual Prec	ripitation from the i	vs Probal incomplet	bility Lev e gamma	els distributi	ion	
Month	Mean	Med- ian	Highest Daily(2)	Year	Day	Highest Monthly(1)	Year	Lowest Monthly(1)	Year	>= 0.01	>= 0.10	>= 0.50	>= 1.00	.05	.10	.20	.30	.40	.50	.60	.70	.80	.90	.95
Jan	2.60	1.46	3.07	1956	26	11.07	1995	.00+	1976	6.5	4.7	1.9	.7	.00	.12	.47	.85	1.28	1.79	2.40	3.18	4.28	6.14	8.00
Feb	2.54	1.88	3.82	1969	24	12.22	1998	.01	1984	6.0	4.4	1.8	.7	.06	.15	.39	.69	1.07	1.55	2.16	2.97	4.16	6.25	8.39
Mar	2.25	1.59	2.41	1978	1	7.75	1983	.00	1997	6.1	4.3	1.5	.6	.02	.11	.35	.64	.99	1.42	1.97	2.68	3.71	5.50	7.31
Apr	.70	.34	2.47	1958	7	4.27	1983	.00+	1997	2.9	1.7	.5	.1	.00	.00	.02	.10	.22	.37	.57	.83	1.20	1.86	2.55
May	.18	.02	1.03	1977	8	1.77	1977	.00+	2000	1.1	.4	.1	@	.00	.00	.00	.00	.00	.00	.05	.14	.29	.60	.92
Jun	.08	.00	.82	1993	5	.82+	1995	.00+	2000	.5	.2	.1	.0	.00	.00	.00	.00	.00	.00	.00	.00	.04	.25	.51
Jul	.02	.00	.11	1992	8	.26	1992	.00+	2000	.4	.1	.0	.0	.00	.00	.00	.00	.00	.00	.00	.00	.02	.08	.13
Aug	.09	.00	1.67	1977	17	1.82	1977	.00+	1999	.4	.2	@	@	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16	.54
Sep	.30	.02	2.77	1939	25	2.23	1976	.00+	1999	1.3	.6	.3	.1	.00	.00	.00	.00	.00	.01	.08	.23	.48	.98	1.53
Oct	.28	.12	1.12	1996	30	1.81	1987	.00+	1999	2.0	.7	.2	@	.00	.00	.00	.01	.05	.11	.19	.30	.48	.79	1.12
Nov	1.02	.70	3.12	1963	20	2.98	1985	.00+	1992	3.2	2.1	.7	.2	.00	.00	.05	.15	.30	.50	.77	1.15	1.72	2.75	3.82
Dec	1.59	.83	6.00	1997	6	6.84	1997	.00+	2000	4.7	2.8	.9	.3	.00	.00	.21	.44	.71	1.03	1.43	1.94	2.64	3.86	5.09
Ann	11.65	10.37	6.00	Dec 1997	6	12.22	Feb 1998	.00+	Dec 2000	35.1	22.2	8.0	2.7	3.65	4.76	6.40	7.81	9.17	10.58	12.13	13.95	16.29	19.95	23.33

+ Also occurred on an earlier date(s)

Denotes amounts of a trace

@ Denotes mean number of days greater than 0 but less than .05

** Statistics not computed because less than six years out of thirty had measurable precipitation

(1) From the 1971-2000 Monthly Normals

(2) Derived from station's available digital record: 1934-2001

(3) Derived from 1971-2000 serially complete daily data

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Services

Station: NEWPORT BEACH HARBOR, CA

Climatography of the United States No. 20 1971-2000

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

> COOP ID: 046175 Lon: 117°53W

Climate Division: CA 6

NWS Call Sign: 3L3

Elevation: 10 Feet

Lat: 33°36N

		Snow (inches) Snow Totals																					
						Sn	ow To	otals									Mea	n Nu	mber	of Da	YS (1)		
	Mean	s/Medi	ans (1)						Extre	mes (2)						Sn >= T	ow Fa hresh	all 10lds		>:	Snow = Thr	Depth esholc	ı İs
Month	Snow Fall Mean	Snow Fall Median	Snow Depth Mean	Snow Depth Median	Highest Daily Snow Fall	Year	Day	Highest Monthly Snow Fall	Year	Highest Daily Snow Depth	Year	Day	Highest Monthly Mean Snow Depth	Year	0.1	1.0	3.0	5.0	10.0	1	3	5	10
Jan	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Feb	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Mar	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apr	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
May	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jun	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Jul	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Aug	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Sep	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Oct	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Nov	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Dec	.0	.0	0	0	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Ann	.0	.0	N/A	N/A	.0	0	0	.0	0	0	0	0	0	0	.0	.0	.0	.0	.0	.0	.0	.0	.0

+ Also occurred on an earlier date(s) #Denotes trace amounts

@ Denotes mean number of days greater than 0 but less than .05

-9/-9.9 represents missing values

Annual statistics for Mean/Median snow depths are not appropriate

(1) Derived from Snow Climatology and 1971-2000 daily data

(2) Derived from 1971-2000 daily data

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

150-C

U.S. Department of Commerce National Oceanic & Atmospheric Administration National Environmental Satellite, Data, and Information Service

Station: NEWPORT BEACH HARBOR, CA

Climatography of the United States No. 20 1971-2000 National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801 www.ncdc.noaa.gov

COOP ID: 046175

Climate Division: CA 6

NWS Call Sign: 3L3

Elevation: 10 Feet

Lat: 33°36N

Lon: 117°53W

				Freez	e Data										
			Spri	ing Freeze D	ates (Month	/Day)									
Tomn (F)		Р	robability of	f later date i	n spring (th	ru Jul 31) tha	n indicated	(*)							
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	1/30	1/13	12/21	0/00	0/00	0/00	0/00	0/00	0/00						
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
•		1	Fa	ll Freeze Da	tes (Month/I	Day)									
Tomm (T)	Probability of earlier date in fall (beginning Aug 1) than indicated(*)														
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	12/13	1/08	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
32	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
28	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
24	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
20	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
16	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00	0/00						
		·		Freeze F	ree Period										
Tomp (F)			Probability	of longer th	an indicated	freeze free p	eriod (Days))							
Temp (F)	.10	.20	.30	.40	.50	.60	.70	.80	.90						
36	>365	>365	>365	>365	>365	>365	>365	>365	332						
32	>365	>365	>365	>365	>365	>365	>365	>365	>365						
28	>365	>365	>365	>365	>365	>365	>365	>365	>365						
24	>365	>365	>365	>365	>365	>365	>365	>365	>365						
20	>365	>365	>365	>365	>365	>365	>365	>365	>365						
16	>365	>365	>365	>365	>365	>365	>365	>365	>365						

* Probability of observing a temperature as cold, or colder, later in the spring or earlier in the fall than the indicated date.

0/00 Indicates that the probability of occurrence of threshold temperature is less than the indicated probability. Derived from 1971-2000 serially complete daily data Complete docu

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html U.S. Department of CommerceClimatographyNational Climatic Data CenterNational Oceanic & Atmospheric AdministrationFederal BuildingNational Environmental Satellite, Data,
and Information Servicefthe United StatesNo. 20Asheville, North Carolina 28801
www.ncdc.noaa.govStation: NEWPORT BEACH HARBOR, CAI971-2000

Climate Division: CA 6

NWS Call Sign: 3L3

Elevation: 10 Feet Lat: 33°36N

°36N Lo

Lon: 117°53W

	Degree Days to Selected Base Temperatures (°F)															
Base						Heatin	g Degree l	Days (1)								
Below	Jan	Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Ann 204 206 204 171 120 76 25 20 24 167 278 1710														
65	284	236	224	171	128	76	25	30	34	66	167	278	1719			
60	148	116	107	60	42	18	1	6	7	14	69	141	729			
57	88	67	55	21	15	6	0	0	0	3	31	82	368			
55	57	40	29	8	7	2	0	0	0	1	16	51	211			
50	11	7	3	0	0	0	0	0	0	0	2	9	32			
32	0	0	0	0	0	0	0	0	0	0	0	0	0			

Base						Coolin	g Degree l	Days (1)					
Above	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Ann
32	741	692	787	825	921	969	1093	1137	1082	1025	838	747	10857
55	85	88	104	143	214	281	380	424	392	313	164	85	2673
57	54	59	68	96	160	225	318	362	332	254	120	53	2101
60	21	24	27	45	95	147	226	274	249	171	67	20	1366
65	3	3	3	5	25	55	95	143	126	68	15	2	543
70	0	0	0	0	3	10	21	58	47	15	1	0	155

	Growing Degree Units (2)																							
Base					Growin	g Degree	Units (N	(Ionthly)								Growi	ng Degr	ee Units ((Accumu	lated Mo	onthly)			
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
40	0 505 496 547 600 685 745 860 898 850 785 604 7 250 251 202 450 505 745 860 898 850 785 604												505	1001	1548	2148	2833	3578	4438	5336	6186	6971	7575	8089
45	45 350 351 392 450 530 595 705 743 700 630 454											359	350	701	1093	1543	2073	2668	3373	4116	4816	5446	5900	6259
50	200	207	237	300	375	445	550	588	550	476	304	208	200	407	644	944	1319	1764	2314	2902	3452	3928	4232	4440
55	72	80	94	153	220	295	395	433	400	322	163	79	72	152	246	399	619	914	1309	1742	2142	2464	2627	2706
60	60 17 16 13 42 76 148 240 278 250 168 50										16	17	33	46	88	164	312	552	830	1080	1248	1298	1314	
Base	ase Growing Degree Units for Corn (Monthly)														Gi	owing D	egree Ui	nits for C	orn (Acc	cumulate	d Month	ly)		
50/86	50/86 243 233 253 304 376 445 550 588 548 476 321											252	243	476	729	1033	1409	1854	2404	2992	3540	4016	4337	4589

(1) Derived from the 1971-2000 Monthly Normals

(2) Derived from 1971-2000 serially complete daily data

Note: For corn, temperatures below 50 are set to 50, and temperatures above 86 are set to 86

Complete documentation available from: www.ncdc.noaa.gov/oa/climate/normals/usnormals.html

Notes

a. The monthly means are simple arithmetic averages computed by summing the monthly values for the period 1971-2000 and dividing by thirty. Prior to averaging, the data are adjusted if necessary to compensate for data quality issues, station moves or changes in station reporting practices. Missing months are replaced by estimates based on neighboring stations.

b. The median is defined as the middle value in an ordered set of values. The median is being provided for the snow and precipitation elements because the mean can be a misleading value for precipitation normals.

- c. Only observed validated values were used to select the extreme daily values.
- d. Extreme monthly temperature/precipitation means were selected from the monthly normals data.
- Monthly snow extremes were calculated from daily values quality controlled to be consistent with the Snow Climatology.
- e. Degree Days were derived using the same techniques as the 1971-2000 normals.
 - Compete documentation for the 1971-2000 Normals is available on the internet from:
 - www.ncdc.noaa.gov/oa/climate/normals/usnormals.html
- f. Mean "number of days statistics" for temperature and precipitation were calculated from a serially complete daily data set . Documentation of the serially complete data set is available from the link below:
- g. Snowfall and snow depth statistics were derived from the Snow Climatology. Documentation for the Snow Climatology project is available from the link under references.

Data Sources for Tables

Several different data sources were used to create the Clim20 climate summaries. In some cases the daily extremes appear inconsistent with the monthly extremes and or the mean number of days statistics. For example, a high daily extreme value may not be reflected in the highest monthly value or the mean number of days threshold that is less than and equal to the extreme value. Some of these difference are caused by different periods of record. Daily extremes are derived from the station's entire period of record while the serial data and normals data were are for the 1971-2000 period. Therefore extremes observed before 1971 would not be included in the 1971-2000 normals or the 1971-2000 serial daily data set. Inconsistencies can also occur when monthly values are adjusted to reflect the current observing conditions or were replaced during the 1971-2000 Monthly Normals processing and are not reconciled with the Summary of the Day data.

- a. Temperature/ Precipitation Tables
 - 1. 1971-2000 Monthly Normals
 - 2. Cooperative Summary of the Day
 - 3. National Weather Service station records
 - 4. 1971-2000 serially complete daily data

- c. Snow Tables
 - 1. Snow Climatology
 - 2. Cooperative Summary of the Day
- d. Freeze Data Table 1971-2000 serially complete daily data

- b. Degree Day Table
- 1. Monthly and Annual Heating and Cooling Degree Days Normals to Selected Bases derived from 1971-2000 Monthly Normals
- 2. Daily Normal Growing Degree Units to Selected Base Temperatures derived from 1971-2000 serially complete daily data

References

- U.S. Climate Normals 1971-2000, www.ncdc.noaa.gov/normals.html
- U.S. Climate Normals 1971-2000-Products Clim20, www.ncdc.noaa.gov/oa/climate/normals/usnormalsprods.html
- Snow Climatology Project Description, www.ncdc.noaa.gov/oa/climate/monitoring/snowclim/mainpage.html
- Eischeid, J. K., P. Pasteris, H. F. Diaz, M. Plantico, and N. Lott, 2000: Creating a serially complete, national daily time series of temperature and precipitation for the Western United States. J. Appl. Meteorol., 39, 1580-1591,

www1.ncdc.noaa.gov/pub/data/special/ serialcomplete_jam_0900.pdf