PATTERNS OF CLIMATE, WATER PER CAPITA, WATERGY, & SUN: SAN JUAN CAPISTRANO, CA[1]

CLIMATE

AVERAGE HIGH & LOW TEMPERATURES: 1928-2008 *Source:* wrcc.dri.edu

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
65.1	66.1	67.1	69.0	70.9	73.1	76.5	78.1	77.5	74.5	70.4	66.1	71.2	˚F HIGH
43	44.1	45.8	48.4	53.0	56.1	59.3	59.6	58.2	53.7	47.5	43.4	51.0	˚F LOW
18.4	18.9	19.5	20.6	21.6	22.8	24.7	25.6	25.3	23.6	21.3	18.9	21.8	˚C HIGH
6.1	6.7	7.7	9.1	11.7	13.4	15.2	15.3	14.6	12.1	8.6	6.3	10.6	˚C LOW

HIGHEST TEMP ON RECORD: 108 ˚F | 42.2 ˚C | Sept. 26, 1963 *Source:* wrcc.dri.edu

LOWEST TEMP ON RECORD: 20 ˚F | -6.7 ˚C | Oct. 3, 1928

WATER PER CAPITA

AVERAGE RAINFALL: 1928-2008 *Source:* wrcc.dri.edu

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
2.47	2.79	2.02	0.98	0.25	0.10	0.02	0.07	0.27	0.46	1.25	1.92	12.60	INCHES
62.7	70.9	51.3	24.9	6.4	2.5	0.5	1.8	6.9	11.7	31.8	48.8	320.0	mm

WETTEST YEAR'S RAINFALL: 28.24 INCHES | 717.3 mm | 1941 *Source:* wrcc.dri.edu

DRIEST YEAR'S RAINFALL: 3.5 INCHES | 87.6 mm | 1953

LONGEST PERIOD W/O MEASURABLE PRECIPITATION: 209 days (2/28-9/24/1977) *Source:* see note #2

AREA: 14.30 SQ MILES; *Wikipedia* 37.0 km^2

POPULATION: 35,142 *Source/Year:* census.gov / 2009 estimate

RAINFALL INCOME: 244.1 GPCD; 924 ℓpcd

WATERGY

Note: the percentages below are per energy source, and are not to be combined for percent of total energy consumption.

% of CA's annual electricity consumption used for water-related purposes:3	19%	2005
% of CA's annual natural gas consumption used for water-related purposes:3	32%	2005
# of gallons of diesel fuel used by annually in CA for water-related purposes:3	88 mil	2005

MUNICIPAL USE: 180.0 GPCD; 681 ℓpcd *Source/Year:* see note # 4, 2009

SUN

LATITUDE: 33 *Source:* Google Earth

ELEVATION: 123 FT; 37.5 m

WINTER-SOLSTICE SHADOW RATIO:* 1:1.54

	ON MAR 21	ON JUN 21	ON SEP 21	ON DEC 21
[A] DEGREES N or S of DUE E THE SUN RISES:	0	29N	0	29S
[A] DEGREES N or S of DUE W THE SUN SETS:	0	29N	0	29S
[B] # of DEGREES SUN IS ABOVE THE SOUTHERN HORIZON AT NOON:	57	81	57	33

To find current magnetic declination for location: HarvestingRainwater.com/books/volume1/volume-1-resource-pages-appendix-6/#magdec

**Object height:length of shadow cast at noon (Dec 21's is longest noontime shadow of year). Source: Rainwater Harvesting for Drylands & Beyond, Vol 1 or 2*

Notes: 1. All rainfall & climate data are from Laguna Beach, CA, as SJC does not have its own weather station // 2. Jim Ashby, Service Climatologist, WRCC, via phone 5/5/2010 // 3. CA Energy Commission, Final Staff Report on CA's Water-Energy Relationship, 2005. These figures include energy consumption for supply & treatment, ag use, end-users & wastewater // 4. Pacificprogressive.com, 7/15/2009, for South Coast (Region 4). A. & B. Rainwater Harvesting for Drylands & Beyond, Volume 1

Available online at: www.harvestingrainwater.com/watergy-climate/water-conservation-and-climate-overview-data-sheets/