

# PATTERNS OF CLIMATE, WATER PER CAPITA, WATERGY, & SUN: ALISO VIEJO, CA<sup>1</sup>

CLIMATE	AVERAGE HIGH & LOW TEMPERATURES: 1928-2008												Source: <a href="http://wrcc.dri.edu">wrcc.dri.edu</a>	
	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	42.2	September 26, 1963				LOWEST TEMP ON RECORD:		20	-6.7	October 3, 1928		
		°F	°C	Source: <a href="http://wrcc.dri.edu">wrcc.dri.edu</a>						°F	°C			

WATER PER CAPITA	AVERAGE RAINFALL: 1928-2008												Source: <a href="http://wrcc.dri.edu">wrcc.dri.edu</a>	
	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	717.3	1941				DRIEST YEAR'S RAINFALL:		3.5	87.6	1953	
		INCHES	mm	Source: <a href="http://wrcc.dri.edu">wrcc.dri.edu</a>						INCHES	mm			
LONGEST PERIOD W/O MEASURABLE PRECIPITATION: 209 days (2/28 - 9/24/1977)												Source: <a href="#">see note #2</a>		
AREA:		10.2	SQ MILES	POPULATION:		41,835	RAINFALL INCOME:		146.3	GPCD				
<a href="#">Wikipedia</a>		26.4	km <sup>2</sup>	Source/Year: <a href="http://census.gov">census.gov</a> / 2009 estimate				554		¢pcd				

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	MUNICIPAL USE:		185.0	GPCD					
	% of CA's annual natural gas consumption used for water-related purposes:3		32%	2005			700	¢pcd					
	# of gallons of diesel fuel used annually in CA for water-related purposes:3		88 mil	2005	Source/Year: <a href="#">see note #4 / 2007-8</a>								

SUN	LATITUDE:	34	WINTER-SOLSTICE SHADOW RATIO:*	1:1.54	ON MAR 21	ON JUN 21	ON SEP 21	ON DEC 21
	Source: <a href="http://Google Earth">Google Earth</a>				0	30N	0	30S
	ELEVATION:	370 FT			0	30N	0	30S
		112.8 m		<sup>B</sup> # of DEGREES SUN IS ABOVE THE SOUTHERN HORIZON AT NOON:	57	80	57	33
To find current magnetic declination for location: <a href="http://HarvestingRainwater.com/books/volume1/volume-1-resource-pages-appendix-6/#magdec">HarvestingRainwater.com/books/volume1/volume-1-resource-pages-appendix-6/#magdec</a>								

\*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 the Laguna Beach, CA, weather station // 2. Jim Ashby, WRCC Service Climatologist 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. [www.fullerton.edu/cdr/profilesv14n1.pdf](http://www.fullerton.edu/cdr/profilesv14n1.pdf), data for Aliso Viejo (in Moulton Niguel WD) on p 2. A. & B. [Rainwater Harvesting for Drylands & Beyond, Vol 1](#)