PATTERNS OF CLIMATE, WATER PER CAPITA, WATERGY, & SUN: RANCHO CUCAMONGA, CA¹

		AVERAGE HIGH & LOW TEMPERATURES:						1893-2010			Source: wrcc.dri.edu					
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL		
		65.4	67.7	70.1	74.1	77.8	84.1	91.0	91.1	88.4	80.7	73.3	66.4	77.5	°F HIGH	
ŀ	<u> </u>	38	40.2	42.2	45.5	49.9	53.4	57.7	57.9	55.1	49.7	42.5	38.3	47.5	°F LOW	
	¥ [18.6	19.8	21.2	23.4	25.4	28.9	32.8	32.8	31.3	27.1	22.9	19.1	25.3	°C HIGH	
;		3.3	4.6	5.7	7.5	9.9	11.9	14.3	14.4	12.8	9.8	5.8	3.5	8.6	°C LOW	
		HIGHEST TEMP ON RECORD:			117	47.2	June 1	7, 1917	LOWEST TEMP ON RECORD:			21	-6.1	January 7, 1913		
						°C		Source:	wrcc.dri.e	edu		°F	°C		·	
AN/EDACE DAINIEALL								1902 2010								

				A۱	/ERAGE R	RAGE RAINFALL: 1893-201			Source: wrcc.dri.edu			du			_
	≥[JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
П		3.62	3.54	2.85	1.23	0.35	0.10	0.01	0.07	0.26	0.77	1.57	2.73	17.10	INCHES
	٥ ا	91.9	89.9	72.4	31.2	8.9	2.5	0.3	1.8	6.6	19.6	39.9	69.3	434.3	mm
ı	PER						1070						1-1-1-		
ı	Ы	WETTEST YEAR'S RAINFALL:			39.97	1015.2	1978		DRIEST YEAR'S RAINFALL:			6.10	154.9	19	989

Source: wrcc.dri.edu

INCHES

mm

191.7

726

GPCD

lepcd

LONGEST PERIOD W/O MEASURABLE PRECIPITATION: 203 days (March-October 1992) Source: see note #2

AREA: 40.20 SQ MILES POPULATION: 170,714 RAINFALL INCOME: Wikipedia 104.1 km² Source/Year: census.gov / 2006 est

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

INCHES

mm

WATER

WATERGY

% of CA's annual electricity consumption used for water-related purposes:

of gallons of diesel fuel used annually in CA for water-related purposes:

**Berein Green or data energy source and are not to be comment or percent or data energy source.

**Berein Green or data energy source.

**Bull 19% 2005 MUNICIPAL USE: 269.0 GPCD 1018 lpcd

**Cource/Year: see note #4 / 2008

LATITUDE: **WINTER-SOLSTICE SHADOW RATIO:*** ON MAR 21 ON JUN 21 ON SEP 21 ON DEC 21 A DEGREES N or S of DUE ETHE SUN RISES: Source: Google Earth 1:1.57 0 29N 0 **29S** ADEGREES N or S of DUE W THE SUN SETS: **ELEVATION:** 1207 FT 0 29N 0 **29S** ^B # of DEGREES SUN IS ABOVE THE SOUTHERN HORIZON AT NOON: 368 56 79 56 33 m

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 solar noon (Dec 21's is longest noontime shadow of year). The ratio is 1:x, where x = 1/(tangent(90-(latitude+23.44)))

Notes: 1. All rainfall & climate data are for Pomona, CA, as advised by Michelle Breckner of WRCC as Rancho Cucamonga has limited historical weather data // 2. M. Breckner, Service Climatologist, WRCC, via phone 3/7/2011 // 3. CA Energy Commission, Final Staff Rpt on CA's Water-Energy Relationship, 2005. Figures include energy for supply & treatment, ag use, end-users & wastewater // 4. GPCD figures for Cucamonga Valley Water District as reported in Inland Empire Reg'l Water Use Efficiency Interim Business Plan 2009-10. A. www.esrl.noaa.gov/gmd/grad/solcalc B. Mar 21: 90-latitude, Jun 21: 90-(lat-23.44), Sept 21: 90-lat, Dec 21: 90-(lat+23.44)