## PATTERNS OF CLIMATE, WATER PER CAPITA, WATERGY, & SUN: ALHAMBRA, CA1

	AVI	1893-2010			Source: wrcc.dri.edu									
CLIMATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	66.4	67.8	69.9	73.3	76.3	81.7	88.5	89.2	87.1	80.6	73.8	67.2	76.8	°F HIGH
	42.5	44.0	45.8	48.7	52.1	55.7	59.9	60.2	58.4	53.3	47.1	43.1	50.9	°F LOW
	19.1	19.9	21.1	22.9	24.6	27.6	31.4	31.8	30.6	27.0	23.2	19.6	24.9	°C HIGH
	5.8	6.7	7.7	9.3	11.2	13.2	15.5	15.7	14.7	11.8	8.4	6.2	10.5	°C LOW
	HIGHEST	TEMP ON	RECORD:	113	45.0	June 1	7, 1917	LOWEST TEMP ON RE		RECORD:			February	21, 2003
				°F	°C		Source:	wrcc.dri.	edu		°F	°C		
	AVERAGE RAINFALL								Source: wrcc.dri.edu					
WATER PER CAPITA	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL	
	4.45	4.57	3.38	1.39	0.43	0.14	0.03	0.09	0.37	0.68	1.67	3.04	20.24	INCHES
	113.0	116.1	85.9	35.3	10.9	3.6	0.8	2.3	9.4	17.3	42.4	77.2	514.1	mm
	WETTEST YEAR'S RAINFALL:			48.47	1231.1	19	983	DRIES	DRIEST YEAR'S RAINFALL			136.4	19	47
ER	11			INCHES	mm		Source:	wrcc.dri.edu		'	INCHES mm		1	
WAT	LONGEST PERIOD W/O MEASURABLE PRECIPITATION: 222 days (April-November 2007) Source: see note #2													
>	AREA: 7.60 SQ MILES					POPULATION: 85,			068 RAINFALL INCOME:				86.1	GPCD
	Wikipedia 19.7 km <sup>2</sup>					Source/Year: census.gov / 2009 e			est 326 lpcd					
<u>&gt;</u>	Note: the percentages below are per energy source, and are not to be combined for percent of total energy consumption.													
ERG	% of CA's annual electricity consumption used for wa								2005					
WATERGY	% of CA's annual natural gas consumption used for water-related purposes: 32% 2005 477 Ppcd													
>	# of gallons of diesel fuel used annually in CA for water-related purposes: 88 mil 2005   Source/Year: see note # 4 / 2004													
	LATITUDE:	34			TICE SHAD	OW RAT				ı	ON MAR 21		ON SEP 21	ON DEC 21
		Google Ea	· '	1:1	.57		A DEGREES				0	29N	0	298
SUN	ELEVATION:		FT	D			<sup>A</sup> DEGREES				0	29N	0	295
150 m B # of DEGREES SUN IS ABOVE THE SOUTHERN HORIZON AT NOON: 56												79	56	33
	To find c	urrent ma	gnetic dec	lination fo	r location:	Harvestii	ngRainwate	r.com/boc	ks/volume	e1/volume-	1-resource	e-pages-ap	pendix-6/#	magdec

\*Object height:length of shadow cast at 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 Pasadena CA, as advised by Michelle Breckner of WRCC, as Alhambra does not have its own weather station // 2. M. Breckner, Service Climatologist, WRCC, via phone 3/7/2010 // 3. CA Energy Commission, Final Staff Report on CA's Water-Energy Relationship, 2005. Data include energy for supply & treatment, ag use, end-users & wastewater // 4. Domestic water use per City of Alhambra 2005 Urban Water Management Plan, section 4-1 // 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)