

PATTERNS OF CLIMATE, WATER PER CAPITA, WATERGY, & SUN: LAS VEGAS, NEVADA

CLIMATE	AVERAGE HIGH & LOW TEMPERATURES: 1937 - 2009 <i>Source: www.wrcc.dri.edu</i>												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	57.1	62.5	69.5	78.2	88.5	98.6	104.6	102.2	94.7	81.3	66.5	57.2	80.2
	34.4	38.9	44.3	51.7	61.1	69.9	76.5	74.8	66.6	54.3	42.0	34.7	54.2
	13.9	16.9	20.8	25.7	31.4	37.0	40.3	39.0	34.8	27.4	19.2	14.0	26.8
HIGHEST TEMP ON RECORD: 117 °F 47.2 °C July 19, 2005 LOWEST TEMP ON RECORD: 28 °F -2.2 °C January 21, 1937 <i>Source: wrh.noaa.gov</i>													

WATER PER CAPITA	AVERAGE RAINFALL: 1937 - 2009 <i>Source: www.wrcc.dri.edu</i>												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
	0.49	0.57	0.45	0.20	0.15	0.07	0.43	0.44	0.32	0.25	0.36	0.40	4.13
	12.4	14.5	11.4	5.1	3.8	1.8	10.9	11.2	8.1	6.4	9.1	10.2	104.9
	WETTEST YEAR'S RAINFALL: 10.72 INCHES 272.3 mm 1941			DRIEST YEAR'S RAINFALL: 0.6 INCHES 14.2 mm 1953									
LONGEST PERIOD W/O MEASURABLE PRECIPITATION: 150 DAYS: 2/22 - 7/21/1959 <i>Source: wrh.noaa.gov</i>													
AREA: 131.31 SQ MILES POPULATION: 558,383 <i>Wikipedia</i> 340.0 km ² SOURCE/YEAR: <i>census.gov, 2008 est</i>						RAINFALL INCOME: 46.24 GPCD 175.0 ¢pcd							

WATERGY	APPROX NUMBER of NEVADA HOMES THAT COULD BE POWERED FOR A YEAR 85,000			MUNICIPAL USE: 240.00 GPCD		
	WITH ENERGY USED ANNUALLY TO MOVE & TREAT WATER IN S. NEVADA ¹ 2008			908.5 ¢pcd		
<i>Source: www.snwa.com, 2009</i>						

SUN	LATITUDE: 36° WINTER-SOLSTICE SHADOW RATIO:*	ON MAR 21 ON JUN 21 ON SEP 21 ON DEC 21			
	<i>Source: Google Earth</i> 1:1.75	^ DEGREES N or S of DUE E THE SUN RISES: 0 30 N 0 30 S			
	ELEVATION: 2100 FT 640 m	^ DEGREES N or S of DUE W THE SUN SETS: 0 30 N 0 30 S			
		^ # of DEGREES SUN IS ABOVE THE SOUTHERN HORIZON AT NOON: 54 77 55 31			

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. This figure calculated by dividing total energy consumed to move & treat water in southern Nevada in 2008: 973 million kWh (according to Las Vegas Sun, 10/20/2009), by average annual residential energy consumption in NV: 11,436 kWh/yr (953 kWh per month (per U.S. Energy Information Administration) x 12 months)
 A. Rainwater Harvesting for Drylands & Beyond, Volume 1 // B. www.esrl.noaa.gov/gmd/grad/solcalc/