## PATTERNS OF CLIMATE, WATER PER CAPITA, WATERGY, & SUN: PT REYES STATION, CA

	AVERAGE HIGH & LOW TEMPERATURES: Unspecified period of record									Source: www.weather.com					
CLIMATE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL		
	58	63	65	70	74	79	83	83	82	77	66	58	71.5	°F HIGH	
	39	41	42	44	47	50	52	52	52	48	42	38	45.6	°F LOW	
	14.4	17.2	18.3	21.1	23.3	26.1	28.3	28.3	27.8	25.0	18.9	14.4	21.9	°C HIGH	
	3.9	5.0	5.6	6.7	8.3	10.0	11.1	11.1	11.1	8.9	5.6	3.3	7.6	°C LOW	
	HIGHEST TEMP ON RECORD:			110	43.3	August	,			t temp on record:		-7.8	February 1989		
				°F	°C		Source:	www.wea	ther.com	'	°F	°C			
WATER PER CAPITA			A٧	/ERAGE R	AINFALL:	Unspeci	Unspecified period of record			www.weat	her.com				
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL		
	5.41	5.31	3.85	1.40	0.62	0.15	0.05	0.08	0.29	1.37	3.52	3.80	25.85	INCHES	
	137.4	134.9	97.8	35.6	15.7	3.8	1.3	2.0	7.4	34.8	89.4	96.5	656.6	mm	
	WETTEST	YEAR'S R	AINFALL:	31.37	796.8	19	41	DRIEST YEAR'S RAINFALL:			7.32	185.9	19	23	
			•	INCHES	mm		Source:	see note #	1	·	INCHES	mm			
	LONG	GEST PERIC	D W/ NO	MEASURA	BLE PRECIF	ITATION: 184 days (4/04 – 10/5/1924			0/5/1924)	Source: M. Breckner, WRCC, email 7/18/2011					
>	AREA: 3.62 SQ MILES					POPULATION: 818			8 RAINFALL INCOME:			5,440	GPCD		
	Wikipedia 9.4 km <sup>2</sup>					Source/Year: census.go			ov / 2000				20,594 <b>l</b> pcd		
>	AMUNICIDAL LICE, 170 CDCD														
ERG	# of kWh used by NMWD in FY2011 to pump & treat water for Pt Reyes: <sup>3</sup> 210,645												674	ℓpcd	
WATERGY	# of avg CA homes that could be powered with that energy: <sup>4</sup> 392  Source/Year: see note #2 /												te #2 / 199	5–2004	
SUN	LATITUDE:	LATITUDE: 38 WINTER-SOLSTICE SHADOW RATIO:*  ON MAR 21 ON JUN 21 ON SEP 21 ON DEC.													
		Google Ea			1.84		DECREES	N or S of F	I I E E THE G	SI INI DISES.	0	30N	0	305	
	Source: Google Earth  1: 1.84  ^ DEGREES N or S of DUE E THE SUN RISES:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N or S of DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEGREES N OR S OF DUE W THE SUN SETS:  **DEG								0	30N	0	30S			
15	10 m B # of DEGREES SUN IS ABOVE THE SOUTHERN HORIZON AT NOON:										75	52	29		
	To find cu	irrent mag	netic decl									re-nages-ar	nendix-6/a	tmagdec	

\*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. www.wrcc.dri.edu, limited period of record (1914-1943). // 2. Ten-year average of North Marin Water District, 2010 Urban Water Management Plan, page 3-3, downloaded from www.nmwd.com on 7/17/2011 // 3. Robert Clark, Operations/Maintenance Superintendent for North Marin Water District (NMWD) via phone on 7/28/2011. // 4. Per http://www.eia.gov/cneaf/electricity/esr/table5.html, accessed 7/28/2011, the average annual household energy consumption for California is 537 kWh.

A. Rainwater Harvesting for Drylands & Beyond, Vol 1, or www.esrl.noaa.gov/gmd/grad/solcalc/ // B. RWHDB Vol 1, or Mar 21 =90-latitude, Jun 21 =90-(lat-23.44), Sep 21 =90-lat, Dec 21 =90-(lat+23.44)