

California Climate

Zone 9

Reference City: Los Angeles
(Civic Center)
Latitude: 34.05 N
Longitude: 118.23 W
Elevation: 270 ft



Basic Climate Conditions

	(F)
Summer Temperature Range	19
Record High Temperature (1955)	110
Record Low Temperature (1949)	28

Design Day Data

Winter	99%	37	
	97.5%	40	
Summer			
	1%:	93	MCWB 70
	2.5%:	89	MCWB 70

Climatic Design Priorities

Winter: Insulate
Reduce Infiltration
Passive Solar

Summer: Shade
Use Evaporative Cooling
Distribute Thermal Mass

Title 24 Requirements

Package	C	D
Ceiling Insulation	R38	R30
Wood Frame Walls	R21	R13
Glazing U-Value	0.38	0.67
Maximum Total Area	14%	20%

Climate

Both coastal and interior weather influences the Southern Californian inland valley climate zone. The inland winds bring hot and dry air, and marine air brings cool and moist air.

This area is famous for growing citrus because the summers are hot and winters never frost. This area has as many HDD as CDD.

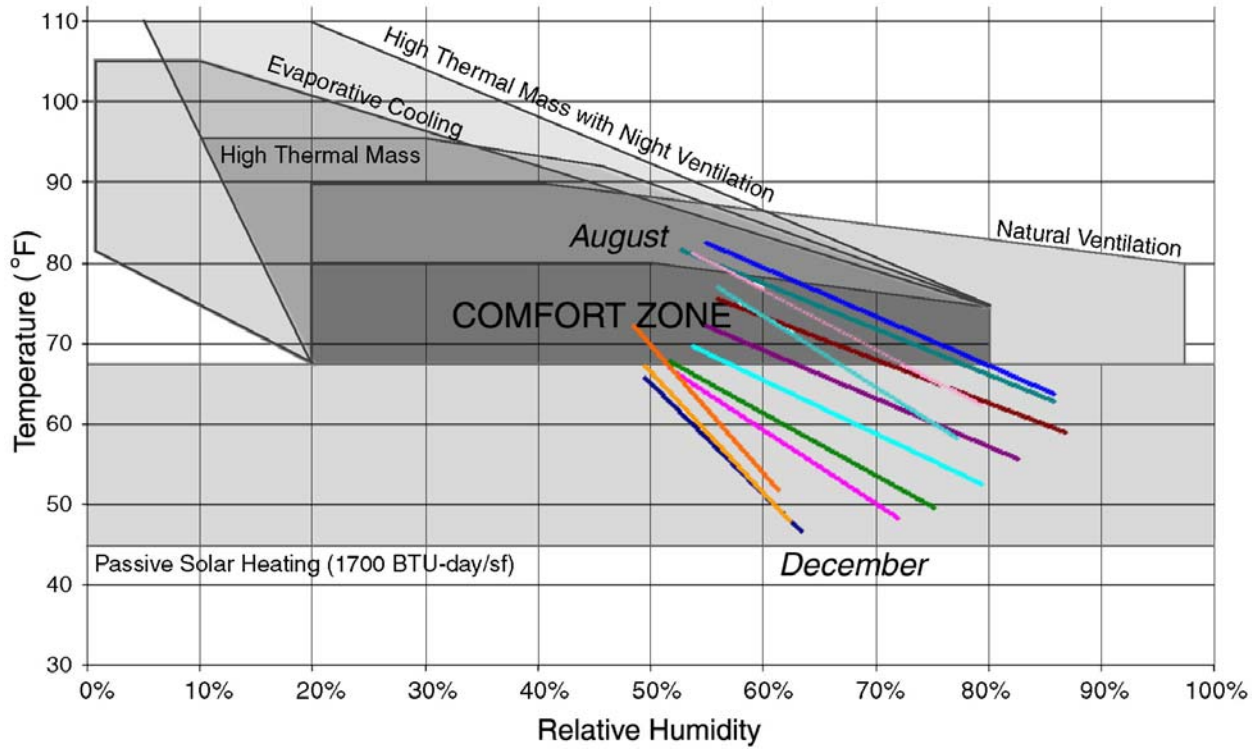
	LA Civic Center	Pasadena	Burbank	Pomona
HDD	1154	1398	1575	1713
CDD	1537	1558	1455	1273

HDD = Heating Degree Days (base 65F)

CDD = Cooling Degree Days

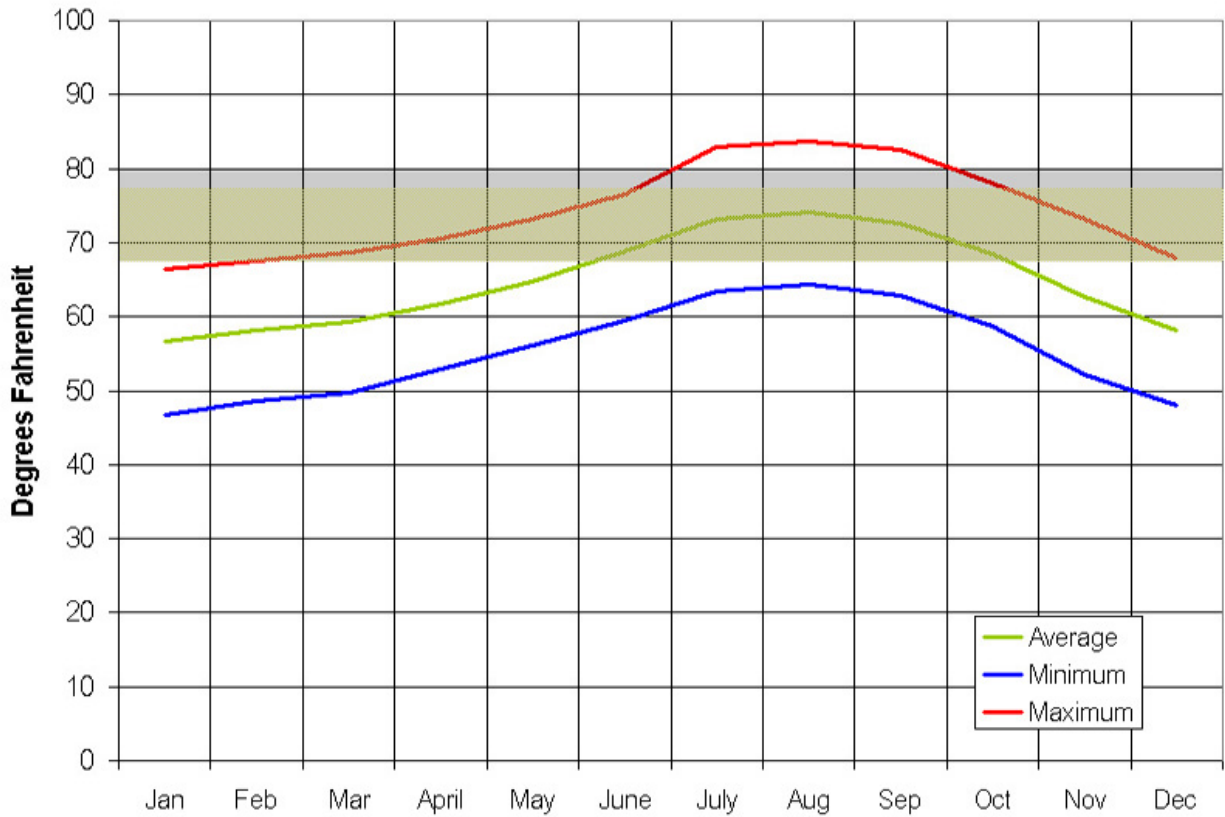
Compared to the coast, summers are warmer and winters are cooler. Rain falls in the winter averaging around 2" per month between November and April. More than 50% of the time skies are clear or partly cloudy.

Bioclimatic Chart



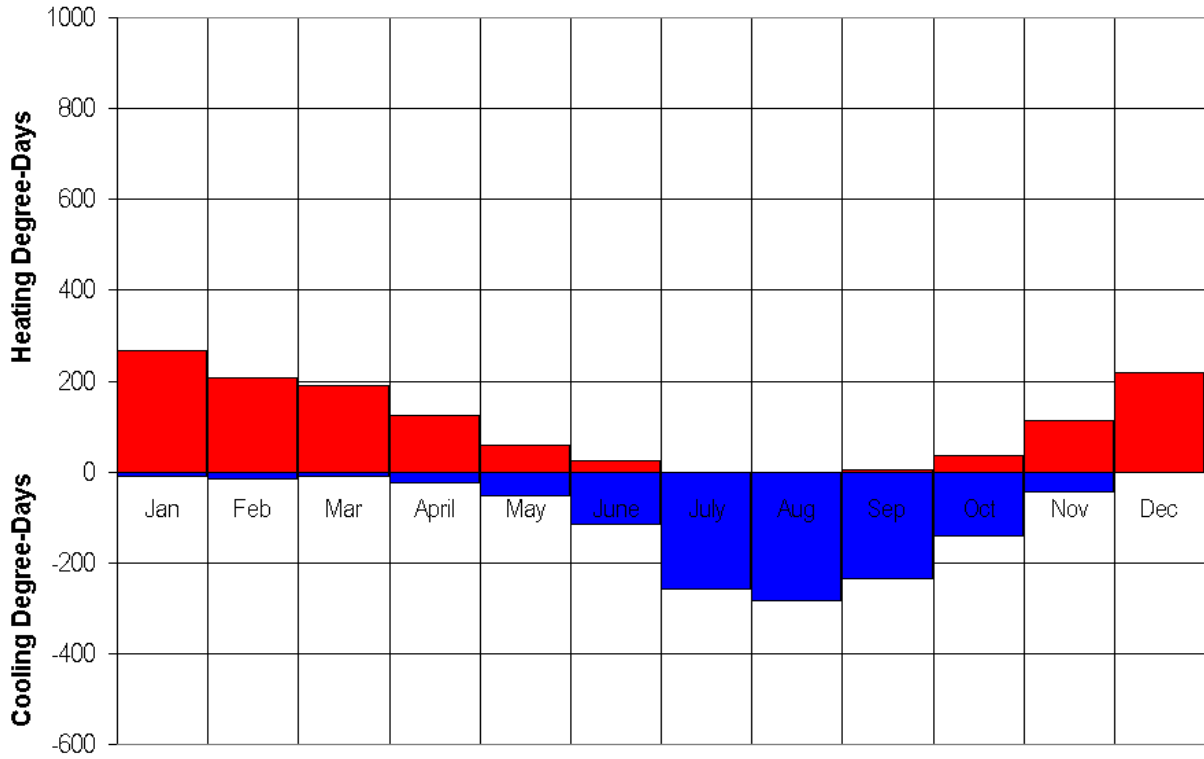
Temperature

(Typical Comfort Zone: 68-80°F)

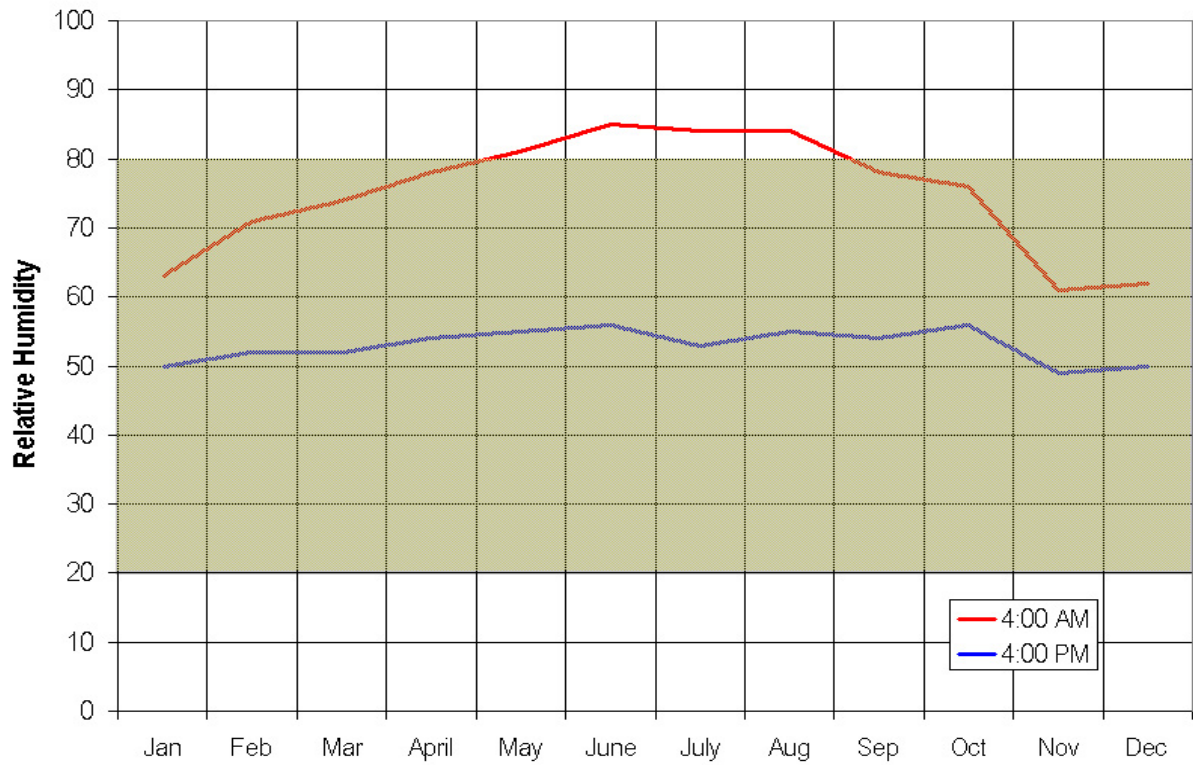


Degree Day

(Base 65°)

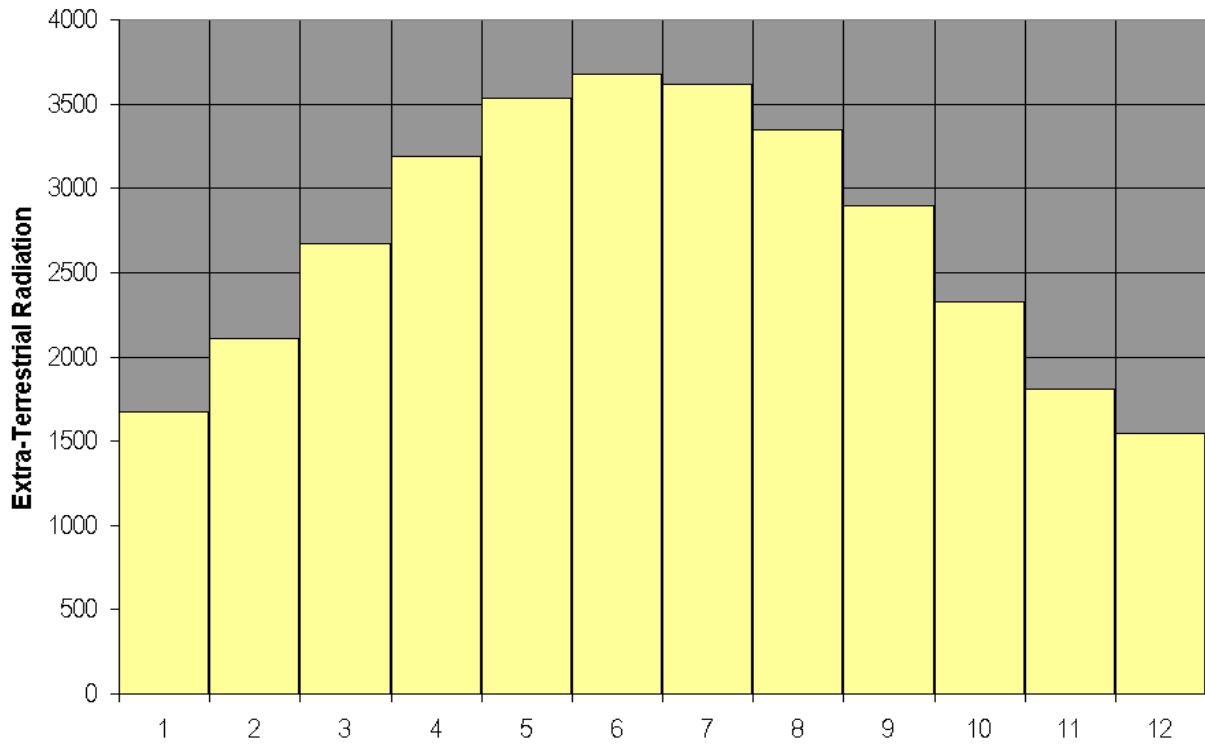


Relative Humidity
(Typical Comfort Zone: 20-80%)

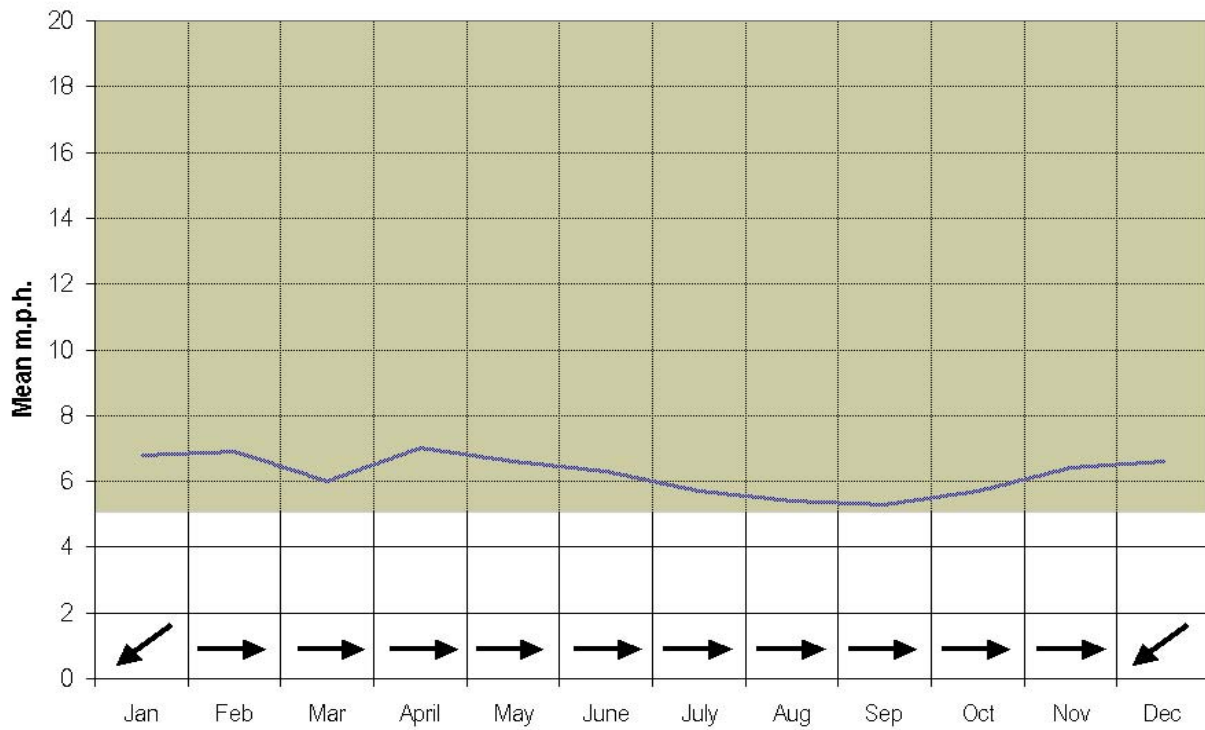


Extra-Terrestrial Radiation

Daily Mean ETR: 2699



Wind Speed



Prevailing Wind Direction

Summer: NW
 Winter: NW

Natural Ventilation is most effective when wind speed is 5 mph or greater.