



## Climate and Geographic Design Criteria

Ground Snow Load:	Zero
Wind Design Using CRC:	93mph: Ultimate/ 72mph Nominal: Design Wind Speed (3-second gust)
Wind Design Using CBC:	Per appropriate wind speed maps and based on risk category. One source of obtaining wind speeds in Tracy is <a href="https://ascehazardtool.org">https://ascehazardtool.org</a>
Wind Exposure:	C
Topographical Effects:	No
Special Wind Region:	No
Windborne Debris Zone:	No
Seismic Design Category Using CRC:	D <sub>1</sub> or D <sub>2</sub> based on seismic ground motion values and Table R301.2.2.1.1
Seismic Design Category Using CBC:	D
Seismic Ground Motion Values:	One source of obtaining seismic value is <a href="https://ascehazardtool.org">https://ascehazardtool.org</a>
Soil Type caution:	Most of Tracy exhibits expansive and corrosive soils (Ferrous underground piping shall be appropriately protected from corrosion.) Liquefaction has been noted to occur. Generally, per soils reports or 1500 psf – requires AHJ approval.
Climate Zone:	12
Subject to damage from:	
Weathering:	Negligible
Frost Line Depth:	0
Termite Damage:	Very Heavy
Winter Design Temperature:	36.6 Degrees F
Ice Barrier Underlayment Required:	No
Flood Hazards:	Refer to Flood Insurance Rate Maps, published by FEMA. Most of Tracy is in Zone X, outside the 0.1% annual-chance floodplain. General area lying north of I-205 and small portions at the south edge of Tracy are in the 1% annual chance of 100-year floodplain, and in the 200-year floodplain published by the Department of Water Resources.
Air Freezing Index:	3 Degrees F-Days at 100-year 99% probability
Mean Annual Temp:	60.7 Degrees F
2% Average Dry Bulb High Temp:	38.4 Degrees C, 101.2 Degrees F ambient temperature for correction factors of conductor ampacity calculations.
Extreme Average Low Temp:	-3.33 Degrees C, 26.0 Degrees