

## California Lapse Rate Worksheet Pretest

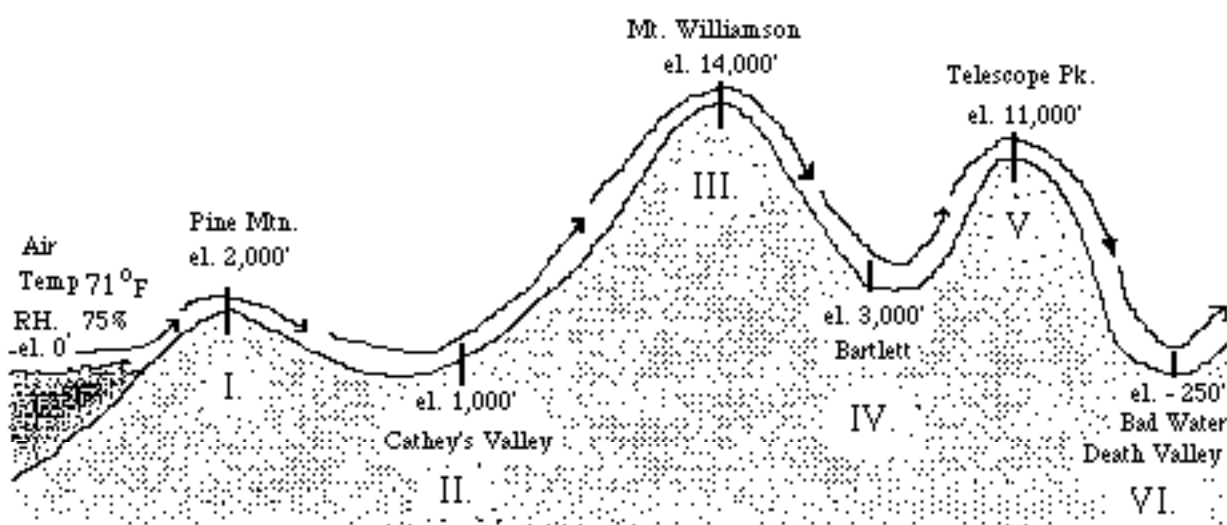
Assume that **stable air** moves over the land adiabatically, starting at sea level (0' elevation) and that **no more water may be added by evaporation** after leaving the coast.

Use the following lapse rates:

Dry lapse rate =  $5.5^{\circ}\text{F}/1,000 \text{ ft.}$  ( $.55^{\circ}\text{F}/100'$ )

Average lapse rate =  $3.3^{\circ}\text{F}/1,000 \text{ ft.}$  ( $.33/100'$ )

Wet lapse rate =  $3.0^{\circ}\text{F}/1,000 \text{ ft.}$  ( $.30/100'$ )



Calculate the Temperature and Relative Humidity for each place with a Roman Numeral.

The answers (and how to calculate them) are on the California Lapse Rate Worksheet which is downloadable from the web site and as a handout in class.

Vapor Pressure Tables are also on the web site and as a handout in class.