

### **Fire Belt Weather Kit Instructions (B1 & T1)**

1. Check with IC re: frequency you will use to monitor and report weather to command (usually every 15 minutes)
2. Monitor NOAA weather channel
3. Ask Communications for weather forecast updates
4. Determine your approximate elevation (GPS unit in B-1 & T1) or request that communications provide you with GPS that matches house location
5. Record date, location elevation, aspect etc. in log book (use handy mini clipboard to write on)

### **You will need to measure and record 3 things**

1. Temperature
2. Relative Humidity
3. Wind direction and speed

### **Most important thing is to record and report trends and changes**

1. Temperature (Use Psychrometer in black holder)
  - a) Dry Bulb Measurement
    - i. Stand in shade and face into the wind
    - ii. Hold psychrometer by chain with hand away from the bulb
    - iii. Allow thermometer to reach equilibrium
    - iv. Read and record (left side)

- a. Locate wet bulb temperature in the columns which read horizontally, right to left. Table is highlighted for our elevation range.
- b. Locate dry bulb temperature in the columns which read vertically, top to bottom.

## Fire Weather Kit Instructions

p. 2

- c. Use Table (Example: wet=40, dry=50)
  - i. Follow down the column under wet bulb reading and across the line from the dry bulb reading
  - ii. Intersection = Dew Point in F° is listed over Relative Humidity in %.

29	Dew Point
45	Relative Humidity

**Note:** Table also found in fireline handbook.  
Because slide rule reads for sea level, use only if unable to use table. Since trends are the main issue, the deviation is acceptable.

3. Wind (Use Wind Meter in plastic holder)
  - a. Direction – record (Compass in red case)
  - b. Velocity/Speed
    - i. Face into the wind
    - ii. Hold in vertical position with red scale facing you
    - iii. Do NOT block bottom holes
    - iv. Height of bulb = speed
    - v. Record both average and gust speeds – average of 5, gusting to 15 is recorded as 5G15
      1. <3 mph=Very Light (smoke rises vertically)

sway is at least 20 mph. Look at smoke drift and record as either  
Steady (S), Slightly Gusty (SG),  
Moderately Gusty (MG) or Very Gusty (VG)