TEN CONTRIBUTORY FACTORS LEADING TO DIRECT ACTION SLAB AVALANCHE FORMATION

(1) Old Snow Depth

- a. Need sufficient snow to cover terrain irregularities.
- b. Big snow years can produce avalanches extending wider than their normal boundaries.

(2) Old Snow Surface

- a. Need to look at top several layers, not just immediate surface layer.
- b. How will this surface affect stability with the next snowfall?
- c. Crusts, T.G. and surface hoar are inherent danger signs.

(3) New Snow Depth

Need 10-12" with wind to produce significant hazard.

(4) New Snow Type

- a. How will new snow type interact with old snow surface?
- b. Degree of riming affects slab formation.

(5) Density

- a. 10% or greater = increased hazard.
- b. Watch for density trends during storm: decreasing density = generally stable, increasing density = generally unstable.

(6) Snowfall Intensity

- a. 1" per hour for 12 hours with above critical wind = hazard.
- b. Watch intensity trend during storm, rapid intensity increase = rapid instability.

(7) Precipitation Intensity

- a. .10" per hour or greater continuously for 10 hours = hazard.
- b. Watch precipitation intensity trends during storm.