Avalanche Terrain Classification

20081212 Draft, Adapted by Alaska Avalanche Specialists from Parks Canada Model

Terrain Complexity Factors	Class 1 +	Class 2 0	Class 3 -
Route Options or Alternatives	Numerous, terrain allows multiple choices.	A selection of choices of varying exposure, options to avoid avalanche paths.	Limited chances to reduce exposure, avoidance not possible.
Slope Angle	Angles generally < 30°.	Mostly low angle, isolated slopes > 35°.	Variable, with many > 35°.
Terrain Traps & Consequences	Minimal, some creek slopes or cutbanks.	Some depressions, gullies or hollows, and/or avalanche terrain above, trees, brush, cliffs, rocks, narrows creeks, or water with some good escape routes or "islands of safety".	Many depressions, gullies or hollows, cliffs, hidden slopes above gullies, cornices, trees, brush, cliffs, rocks, narrows, creeks, or water with few escape routes or "islands of safety".
Avalanche Frequency	30 year return, ≥ D2 size.	Yearly for < D2 size. 3 year return for ≥ D2 size.	Yearly for < D3 size. Yearly for ≥ D3 size.
Interaction with Paths	Runout zones only.	Single path or paths with separation.	Numerous and over- lapping paths.
Exposure Time	None, or limited exposure crossing runouts only.	Isolated exposure to start zones and tracks.	Frequent exposure to start zones and tracks.
Glaciation	None or smooth.	Generally smooth with isolated bands of crevasses.	Broken or steep sections of crevasses, icefalls or serac exposure.
Start Zone Density	Limited starting zone terrain.	Some start zones; isolated avalanche paths leading to valley bottom.	Large expanses of start zones; multiple paths leading to valley bottom.
Runout Zone Characteristics	Solitary, well-defined areas, smooth transitions, spread deposits.	Abrupt transitions or depressions with deep deposits.	Multiple converging ru- nout zones, confined depositions area, steep tracks overhead.
Slope Shape	Uniform.	Some convexities.	Convoluted.

Notes:

Terrain may fit into multiple classes. Consider all variables; note default properties indicated by **bold italics**. Those properties automatically default into that or higher class. Non-italicized descriptors carry less weight.