## **DO STABILITY TESTS INFLUENCE FORECASTERS' SLOPE STABILITY RATINGS? A case study supporting the application of snowpack stability tests**



Submitted by Alex Marienthal on Sun, 01/17/2021 - 11:42

Snow <u>stability</u> tests provide information about the likelihood of avalanching on slopes with a similar snow structure. They are especially important during times of conditional <u>stability</u>, when avalanches or obvious signs of instability may be rare (LaChapelle, 1980). Avalanche forecasters use these tests to assess <u>stability</u> across a region, ski area, or transportation corridor, while recreational backcountry users typically use them for assessing slopes they want to ski or ride. Regardless of these differences, <u>stability</u> tests are invaluable for informing decisions for travelling in, or opening or closing, avalanche terrain. This study focuses on professional avalanche forecasters, showing that <u>stability</u> tests influence their slope <u>stability</u> ratings in nearly 30% of the tests. Our results show the importance of <u>stability</u> tests in professional decisions regarding avalanche conditions.

AlexMarienthal.TAR39.2.pdf Publication The Avalanche Review, Issue 39.2 Date of Publication Tuesday 12/1/20