



## [GNFAC Avalanche Forecast for Fri Dec 21, 2018](#)

Good Morning. This is Eric Knoff with the Gallatin National Forest Avalanche Forecast issued on Friday, December 21<sup>st</sup> at 7:00 a.m. Today's forecast is sponsored by [Grizzly Outfitters](#) and the [Friends of the Avalanche Center](#). This forecast does not apply to operating ski areas.

### Mountain Weather

Overnight a trace to one inch of snow fell in the mountains south of Bozeman including Cooke City. At 5 a.m. temps range from the teens to mid-20's F and winds are blowing 30-60 mph out of the west-southwest with gusts near Big Sky breaking 70 mph. A fast moving front this morning will deliver 1-3" of snow. This storm will be short lived and snow tapers off by late morning. Highs today will warming into the mid to upper 20's and winds will remain strong out of the west-southwest. No snow is expected tonight or tomorrow.

### Snowpack and Avalanche Discussion



#### Southern Madison Southern Gallatin Lionhead Range

This morning, winds are blowing 30-50 mph in mountains near West Yellowstone. Strong winds combined with fresh snow will create thick wind drifts on slopes loaded by west-southwest winds. These drifts will be resting over a weak and fragile snowpack ([video](#), [video](#)). Any steep slope with wind drifted snow will be highly susceptible to human triggered avalanches. Non-wind loaded slopes will be less prone to slides, but still need to be approached with caution.

The message is simple today: fresh snow, strong winds, and a weak snowpack will create dangerous avalanche conditions. The best defense against avalanches today will be terrain management. Avoid slopes steeper than 30 degrees and stay off low angle slopes connected to steep slopes above.

Today - fresh snow, strong winds, and buried weak layers make human triggered avalanches likely and the avalanche danger is rated [CONSIDERABLE](#).



#### Bridger Range Northern Gallatin Northern Madison Cooke City

The primary avalanche problem today will be wind loaded slopes. This morning, winds are gusting over 70 mph on the summit of Lone Peak and 30-60 mph elsewhere. Strong west-southwest winds combined with a few inches of new snow will form a fresh batch of wind slabs that will be touchy to human triggers. On many slopes, wind deposited snow will be adding stress to a thin layer of facets buried in the upper foot of the snowpack.

Yesterday, Alex found this layer to be the primary avalanche concern in the mountains around Cooke City ([video](#), [photo](#)). This is consistent with our field data and observations from the past few weeks ([photos](#), [videos](#)).

Today, watch for and avoid wind loaded slopes and pay attention to signs of instability such as cracking and collapsing. These are obvious clues the slope is unstable. Fortunately, the lower portion of the snowpack is mostly strong and stable which will keep instabilities isolated to new and wind-blown snow.

Today, dangerous avalanche conditions exist on wind loaded slopes which have **CONSIDERABLE** avalanche danger. Non-wind loaded slopes have **MODERATE** avalanche danger.

If you get out and have any avalanche or snowpack observations to share, contact us via our [website](#), email ([mtavalanche@gmail.com](mailto:mtavalanche@gmail.com)), phone (406-587-6984), or Instagram (#gnfacobs).

## **Upcoming Avalanche Education and Events**

Our education calendar is full of awareness lectures and field courses. Check it out: [Events and Education Calendar](#).

### **BOZEMAN**

January 2, **Avalanche Awareness**, 6-7:30 p.m. at REI, Bozeman. Pre-register at <https://www.rei.com/events>.

January 8, **Women's Specific Avalanche Awareness**, 6:30-8 p.m. Story Mill Park, Bozeman.

January 9, **1-hr Avalanche Awareness**, 7-8 p.m. Spire Climbing Center, Bozeman.

### **COOKE CITY**

Every Friday and Saturday, **Rescue Training and Snowpack Update**. Friday 6:30-7:30 p.m. at the Soda Butte Lodge. Saturday anytime between 10-2 @ Round Lake.