

## GNFAC Avalanche Forecast for Wed Feb 21, 2018

Good Morning. This is Doug Chabot with the Gallatin National Forest Avalanche Advisory issued on Wednesday, February 21<sup>st</sup> at 7:00 a.m. Today's advisory is sponsored by [Yellowstone Arctic Yamaha and Yamaha Motor Corp](#) in partnership with the **Friends of the Avalanche Center**. This advisory does not apply to operating ski areas.

### Mountain Weather

Under partly cloudy skies, mountain temperatures are -5F to -10F with winds averaging 10-20 mph and gusting to 25 mph out of the W-SW and SE around Cooke City. Overnight a trace to 1" of snow fell in the southern mountains and Cooke City. Today will remain partly cloudy, temperatures will rise into the high single digits and drop to zero tonight as winds decrease to 10-20 mph from the W-SW. The southern ranges and Cooke City may get an inch of snow later today.

### Snowpack and Avalanche Discussion



#### Cooke City

Eric is in Cooke City and found blowing snow, wind-loading and also a wafer-thin weak layer of small-grained facets 18" under the surface, which he describes in his ([video](#)). This is the same layer I saw a week ago, but it now has a thicker slab of snow sitting on it. This layer was unstable in his tests and found on many slopes, wind-loaded and not. The good news is that it may not be a problem for long, but in the meantime assume it's on most slopes until proven otherwise. Thick drifts and a few avalanche crowns are reminders that wind-loaded slopes could still avalanche ([photo](#)). For today, wind-loading and a buried weak layer point to the possibility of avalanches and a **MODERATE** danger.



#### Bridger Range   Gallatin Range   Madison Range   Lionhead Range

From the Bridger Range, to Big Sky and West Yellowstone, winds formed large cornices and also blew snow into thick slabs that could avalanche. On Monday, skiers up Hyalite near Maid of the Mist came close to falling off a cliff when a cornice broke inches away from their feet. It triggered the slope below which wiped out part of their track ([photo](#)). Yesterday, my partner and I skied north of Bridger Bowl along the ridge, ever mindful of the Hyalite incident. I kept my path on solid ground near the trees as we passed huge cornices ([photo](#), [photo](#)) giving them a wide berth ([illustration](#)).

Our snowpit revealed wind slabs no more than a foot thick overlying softer snow, an unstable structure that could produce avalanches, which I talk about in our [video](#). Other relevant observations include a small avalanche in Middle Basin north of Big Sky ([photo](#)), large cornices along Buck Ridge ([photo](#)), and an avalanche under a corniced ridge in Teepee Basin ([photo](#)). Today's concerns are limited to wind-loaded slopes which have a **MODERATE** avalanche danger. All other slopes have a **LOW** danger since the snowpack lacks widespread weak layers and has good stability.

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

## Upcoming Avalanche Education and Events

### Events and Education Calendar

#### BOZEMAN

Feb. 28<sup>th</sup>, **Know Before You Go** avalanche awareness, 7:00 p.m. @ Procrastinator Theater, MSU

March 2<sup>nd</sup> and 3<sup>rd</sup>, **SheJumps Companion Rescue Clinic**, [Info and Register HERE](#)

March 2<sup>nd</sup>, **Avalanche Awareness**, 7-8:00 p.m., MAP Brewing [Bozeman Split Fest](#)

March 7<sup>th</sup>, **Avalanche Awareness**, 6-7:30 p.m. @ REI

#### DILLON

Feb. 24<sup>th</sup> and 25<sup>th</sup>, **Snowmobile intro to avalanches w/ field course**. More info:  
<https://msuextension.org/conference/>

#### COOKE CITY

Every Friday and Saturday, **Current Conditions Update and Avalanche Rescue**, Friday 6:30-7:30 p.m. at The Soda Butte Lodge in February. Saturday anytime between 10-2 @ Round Lake.