

## GNFAC Avalanche Forecast for Fri Feb 2, 2018

Good Morning. This is Eric Knoff with the Gallatin National Forest Avalanche Advisory issued on Friday, February 2<sup>nd</sup> at 7:00 a.m. Today's advisory is sponsored by [Grizzly Outfitters](#) in partnership with the [Friends of the Avalanche Center](#). This advisory does not apply to operating ski areas.

### Mountain Weather

Overnight the mountains around Cooke City received 3" of new snow while all other areas picked up 1-2". At 5 a.m. temps range from the teens to low 20's F and winds are blowing 15-30 mph out of the W-SW. Today, light snow showers will impact the mountains with 1-3" possible by this evening. Snow intensifies tonight and the mountains will pick up an additional 2-4" by tomorrow morning. Highs today will warm into 20's F and winds will continue to blow 15-30 mph out of the west.

### Snowpack and Avalanche Discussion



#### Cooke City

The primary avalanche problem in the mountains around Cooke City is wind loaded slopes. New snow combined with moderate winds from the west is the perfect recipe for wind slab formation. Yesterday, Alex rode north of town and observed evidence of a large recent avalanche that occurred in wind loaded terrain ([video](#)). This is consistent with another large avalanche that occurred off Woody Ridge earlier in the week ([photo](#)). Today, staying off wind loaded slopes will be the best way to avoid avalanches ([photo](#)).

A secondary concern is a layer of surface hoar buried 1-2' deep ([photo](#)). Yesterday, Alex got unstable results on this layer in his stability tests. Buried surface hoar is notorious for having sporadic distribution so keep a watchful eye out for this layer before jumping into steeper terrain.

Today, human triggered avalanches are likely on wind loaded slopes which have a [CONSIDERABLE](#) avalanche danger. Non-wind loaded slopes have [MODERATE](#) avalanche danger.

Read a recent blog post on the complexities of the snowpack around Cooke City:

<https://www.mtavalanche.com/blog/additional-thoughts-regarding-my-uncertainty-surrounding-cooke-city-snowpack>



#### Southern Madison   Southern Gallatin   Lionhead Range

Yesterday, snowmobilers triggered a small slide in the Lionhead area near West Yellowstone ([photo](#)). Although this slide was small and relatively harmless, it's a key indicator that larger slides are possible. Today, wind loaded slopes are the main concern. Watch for and avoid slopes that appear to be heavily wind load and steer clear of large cornices along the ridgelines. Cornices can break farther back than expected and also trigger larger avalanches on the slopes below.

Additionally, surface hoar buried 1-2' deep and facets near the ground both hold the potential to produce slides. Buried surface hoar continues to produce unstable test results and is the main layer of concern. Fortunately, this layer is not buried very deep and is easy to look for and assess ([video](#), [photo](#)). Facets near the ground are getting stronger, but could still produce large slides in isolated areas.

Today, human triggered avalanches are possible and the avalanche danger is rated [MODERATE](#).



Bridger Range Northern Gallatin Northern Madison

Overnight, winds blew 15-30 mph out of the west. Wind slabs 1-2' deep likely formed in upper elevation, leeward terrain ([video](#)). These slabs could fail under the weight of a skier or rider. In most cases wind slabs are easy to recognize and avoid, but occasionally catch skiers and riders off guard. It's poor practice to ski or ride onto a slope to try and intentionally trigger wind slabs. These can break deeper and wider than you might expect and can also break above you. Earlier this winter, a skier in the Bridgers took a nasty ride when he attempted to trigger a wind slab that broke above him and carried him 800' downslope. Fortunately, he was not injured. Outside of wind loaded slopes, the snowpack is mostly stable.

For today, the avalanche danger is rated [MODERATE](#) on all wind-loaded slopes and [LOW](#) elsewhere. The avalanche danger could rise if the storm intensifies throughout the day.

## King and Queen of the Ridge

[King and Queen of the Ridge](#), Saturday, February 3<sup>rd</sup>. A Hike and Ski/Ride-a-Thon fundraising event to support the Friends of the Gallatin National Forest Avalanche Center. Sign up and start collecting pledges [HERE](#).

## Upcoming Avalanche Education and Events

### [Events and Education Calendar](#)

#### BOZEMAN

Feb. 6<sup>th</sup>, **Sidecountry specific avalanche awareness for family and friends**. 6-8 p.m. @ Beall Park

Feb. 7<sup>th</sup>, **Woman's specific avalanche awareness**, 6-7:30 p.m. @ REI in Bozeman

Feb. 7<sup>th</sup>, **Avalanche awareness**, 6-7:00 p.m. @ Roskie Hall MSU

Feb. 9 and 10, **Companion Rescue Clinic**, [Info and Register](#)

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

March 2<sup>nd</sup>, **Avalanche Awareness**, 6-7:00 p.m. Bozeman Split Fest

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

## PHILLIPSBURG

Feb. 8<sup>th</sup>, **Avalanche Awareness**, 6:30-8:30 p.m. @ the new Fire Hall

## DILLON

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

## WEST YELLOWSTONE

Feb. 3<sup>rd</sup>, **Avalanche Awareness**, 7-8 p.m. at West Yellowstone Holiday Inn Conference Center

Feb. 10<sup>th</sup>, **Avalanche Awareness**, 7-8 p.m. at West Yellowstone Holiday Inn Conference Center

## 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.