

# **GNFAC Avalanche Forecast for Tue Feb 16, 2021**

Good Morning. This is Dave Zinn with the Gallatin National Forest Avalanche Forecast on Tuesday, February 16<sup>th</sup> at 7:30 a.m. Today's forecast is sponsored by [Gallatin County Search and Rescue](#) and [Montana State Parks](#). This forecast does not apply to operating ski areas.

## **AVALANCHE FATALITY**

On Sunday at 11:44 a.m., a pair of splitboarders triggered an avalanche in Beehive Basin north of Big Sky. They were skinning up the slope when they felt the slope [collapse](#) and saw cracks spreading around them. One of them fought to grab trees and self-arrested. The avalanche carried the second rider downslope where he impacted a tree, was partially buried, and sustained critical injuries. The rider who was able to escape the avalanche activated Search and Rescue by calling 911 and descended the slope to provide care to his partner. Big Sky and Gallatin County Search and Rescue evacuated the injured rider and transferred care to Big Sky Fire Department and Life Flight. Sadly, later that night, the rider who was partially buried died from injuries sustained in the avalanche. Our sincere, heartfelt condolences go to the family and friends of those involved. Alex and Doug went to the scene on Monday and made a [video](#) explaining Sunday's events. We will complete a written accident report in the next day or two.

## Mountain Weather

This morning mountain temperatures are in the mid-teens F with 10-20 mph winds from the west. The Bridger Range through the Southern Madison and South Gallatin Ranges received 8-12" of new snow, and the mountains around West Yellowstone and Cooke City received 4-5". Temperatures today will rise to the low to mid-20s F with 10-20 mph winds from the west to northwest. By morning the mountains around Bozeman and Big Sky will have 5-8" of new snow and West Yellowstone and Cooke City will see 2-3".

## Snowpack and Avalanche Discussion



### **Bridger Range**

In the last 48 hours, the Bridger Range received 20" of snow equal to 1.5" of [snow water equivalent](#)-SWE. New and wind-drifted snow are likely to avalanche in steep terrain today under the weight of human triggers and avalanches breaking deeper into the snowpack on sugary facets near the ground are a growing concern as the weight of the new snow adds up. On Sunday, *before* the new snow fell, Alex and I choose to stay off steep terrain due to continued concerns about the weak structure of the snowpack ([video](#)). Today, obvious signs of instability such as fresh avalanches, collapsing or whumphing, and shooting cracks will be more likely. Heed these warning signs.

Careful snowpack evaluation, cautious route-finding, and conservative decision-making are essential due to dangerous avalanche conditions. Human-triggered avalanches are likely and the danger is rated [CONSIDERABLE](#).



## Gallatin Range   Madison Range   Lionhead Range   Island Park

The Lionhead area and the Madison and Gallatin Ranges received 8-14" of new snow in the last 48 hours equal to 0.5-0.9" of SWE. Sunday's fatal avalanche accident in Beehive Basin is a tragic reminder that slides breaking deep within snowpack on weak facets near the ground are a very real possibility. Preliminary [information and photos](#) are available on the website and we published a [video](#) explaining the events after our visit to the accident site yesterday.

Ongoing snowfall and wind-transported snow are adding weight to a structure near or reaching its failing point. Yesterday, skiers in the Divide Cirque saw two enormous avalanches that broke an estimated 1200-1500' across and up to 6' deep in wind-loaded, high elevation terrain ([details and photos](#)). Skiers near Hebgen Lake felt the snow in shallower, low elevation terrain whumphing as they toured toward their destination ([details](#)). This evidence along with avalanches at [Lionhead](#), [Portal Creek](#), and [Cabin Creek](#) within the last week tell us what we need to know ([video from Teepee Basin](#)). Avoid steep, wind-loaded terrain today and utilize a conservative travel plan along with careful snowpack evaluation. Human-triggered avalanches are likely in wind-loaded terrain and the danger is rated [CONSIDERABLE](#). Avalanches are possible on non-wind-loaded slopes and the danger is [MODERATE](#).



## Cooke City

The mountains around Cooke City received 7" of snow in the last two days equal to 0.5" SWE. The snow is starting to add up and riders and skiers should stay off of steep slopes if they observe signs of instability such as recent avalanches, cracking, and collapsing ([Small Avalanches are a Warning video](#)). When Doug visited Cooke City last weekend he noted two areas of particular concern, the terrain where slabs of wind-drifted snow are loading slopes and terrain with a shallower and weaker snowpack ([video](#)). Numerous avalanches occurred within the last week on steep slopes where one or both of these factors existed ([new photo West Woody Ridge, Mount Abundance, Town Hill, Woody Ridge, Mount Zimmer, Hayden Creek drainage](#)). Today, evaluate the snow and terrain carefully avoiding these features of concern. Human-triggered avalanches are possible and the danger is [MODERATE](#).

If you get out, please send us your observations no matter how brief. You can submit them via our [website](#), email ([mtavalanche@gmail.com](mailto:mtavalanche@gmail.com)), phone (406-587-6984), or Instagram (#gnfacobs).

## Upcoming Avalanche Education and Events

See our [education calendar](#) for an up-to-date list of all local classes. Here are a few select upcoming events and opportunities to check out:

**Every Saturday in Cooke City**, FREE snowpack update and rescue practice at the Round Lake Warming Hut between 10 a.m. and 3 p.m. [Poster with More Info](#).

**February 19 and 20**, Companion Rescue Clinic. [Registration HERE](#).

**February 22, 6-7 p.m.,** Forecaster Chat: Rethinking Avalanche Terrain from a Strategic Perspective, Hosted online by Uphill Pursuits, [Link to Join HERE](#)

**February 26 and 27,** Women's Companion Rescue Clinic with SheJumps. [Registration HERE](#).