

# [GNFAC Avalanche Forecast for Fri Dec 18, 2020](#)

Good Morning. This is Ian Hoyer with the Gallatin National Forest Avalanche Forecast on Friday, December 18th at 7:15 a.m. This forecast is sponsored by [Gallatin Valley Snowmobile Association](#) and [Bridger Bowl](#). This forecast does not apply to operating ski areas.

## Mountain Weather

Since yesterday morning, 2" of snow fell in the mountains around Bozeman. 3-5" fell around West Yellowstone and Cooke City. The Yellowstone Club picked up 7" while Big Sky Resort only got around 3". Temperatures this morning are in the teens F. Winds are 15-20 mph from the west-northwest with gusts of 30-40 mph. Today, winds will shift a more southwesterly and continue to blow 10-20 mph with higher gusts. High temperatures will be in the high teens and 20s F. Skies will be mostly cloudy today with a light dusting of snow expected tomorrow morning.

## Snowpack and Avalanche Discussion



[Madison Range](#) [Southern Gallatin](#) [Lionhead Range](#) [Island Park](#)

Yesterday's new snow and wind drifting are keeping wind loaded slopes at their breaking point around Big Sky and West Yellowstone. The lower snowpack is very weak and cohesive slabs are building with each snow and wind event. Areas around Big Sky that saw larger snowfall amounts yesterday now have a snowpack setup more similar to the areas around West Yellowstone that had been favored by snowfall over the last week.

Yesterday, in Taylor Fork, I found deep drifts sitting above weak facets and got very unstable test results on a slope with only a 6" deep slab ([video](#)). On Wednesday, Doug intentionally triggered an avalanche on a small sidehill that was wind-loaded ([photo](#)) and a skier saw a small avalanche on the western edge of Yellowstone National Park ([details](#)). Carefully investigate any steep slope to make sure it doesn't have a cohesive wind-drifted slab before riding it. Avoid wind-loaded slopes today.

Human triggered avalanches are likely on wind-loaded slopes and the avalanche danger is [CONSIDERABLE](#). The avalanche danger is [MODERATE](#) on all other slopes.



[Bridger Range](#) [Northern Gallatin](#)

The foundation of the snowpack in the Northern Gallatin and Bridger Ranges is also very weak, it just has not been loaded as heavily. Most slopes don't yet have the cohesive slab needed for an avalanche ([video](#)). Be on alert for the wind-loaded slopes that do. Strong west winds have built cohesive slabs on slopes near ridgelines and also cross-loaded gullies at lower elevations. Cracks shooting out from your skis or sled are clear indicators you've found an unstable slope. An Extended Column Test on a nearby, lower-angled slope is a great way to search for instability before exposing yourself to steep terrain ([video](#)).

The avalanche danger today is [MODERATE](#) on wind-loaded slopes and [LOW](#) on all others.



Cooke City

The new snow around Cooke City is falling on a much more stable foundation. The snowpack is 3-4 ft deep without widespread weak layers. Wind drifts of new snow are the primary concern. More new snow and strong winds yesterday built new slabs and will keep older drifts reactive. For today, human triggered avalanches are possible and the avalanche danger is [MODERATE](#) on wind-loaded slopes. The danger is [LOW](#) on all other slopes.

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. Starts this Saturday, November 28. [Poster with More Info](#).

Monday, December 21, 6-7 p.m., **FREE online 1-hr Avalanche Awareness** sponsored by Mystery Ranch. [Join HERE](#).

January 20 & 21 (plus field sessions the following weekends), **Avalanche Fundamentals with Field Course**. There are separate field sessions tailored for both skiers and splitboarders (Bridger Bowl) and snowmobilers (Buck Ridge). Register [here](#).