

# **GNFAC Avalanche Forecast for Fri Dec 24, 2021**

Good morning. This is Ian Hoyer with the Gallatin National Forest Avalanche Forecast on Christmas Eve, Friday, December 24th at 7:00 a.m. This information is sponsored by [Blitz Motorsports and Yamaha](#) and [Grizzly Outfitters](#). This forecast does not apply to operating ski areas.

## Mountain Weather

Since yesterday morning, Cooke City and Lionhead each got 11" of new snow, 9" fell at Bridger Bowl, 7" in the southern Madison Range, and 3-4" elsewhere. Winds are strong out of the southwest at 20-30 mph, with gusts as high as 70 mph. Winds have backed off a bit this morning and will continue from the southwest at 10-20 mph with gusts up to 30 mph. Another 1-3" will fall by tomorrow morning with up to 5" in Cooke City.

## Snowpack and Avalanche Discussion



### Cooke City

A big dump of new snow with strong winds means that human triggered avalanches are likely today. The Fisher Creek SNOTEL site is showing 18" (1.8" [Snow Water Equivalent](#)) of snow over the last 48 hours and we've received reports of substantially more snow at higher elevations. You could trigger an avalanche within the new snow (especially in wind drifts), on a layer of weak snow in the middle of the snowpack, or on weak snow at the ground. Don't get caught up in the details - with so much new snow, wherever a slide breaks it will be large and dangerous. Keep it simple. Stay off of and out from under any slope steeper than 30 degrees. Human triggered avalanches are likely and the avalanche danger is rated [CONSIDERABLE](#).



### Lionhead Range Island Park

With a foot of fresh snow (1.1" SWE) and strong southwest winds avalanches will break easily today on wind loaded slopes. Expect to trigger avalanches within the new snow and they could also break on the weak layers near the ground ([video](#)). Look out for and avoid steep wind-loaded slopes. If you aren't confident in identifying wind-loaded slopes, just avoid all steep slopes. The avalanche danger is [CONSIDERABLE](#) on wind-loaded slopes. On slopes without wind-drifted snow avalanches are possible and the avalanche danger is [MODERATE](#).



### Southern Madison Southern Gallatin

Seven inches of new snow (0.7" SWE) isn't enough to spike the danger, but does mean it's possible to trigger dangerous avalanches on steep slopes that are either wind drifted or have weak snow at the base of the snowpack ([Tepee Basin video](#)). Look out for particularly deep wind-drifts or slopes where a small slide could pile up deeper in a gully or push you into obstacles. Human triggered avalanches are possible and the avalanche danger is [MODERATE](#).



## Bridger Range Northern Gallatin Northern Madison

Fresh wind drifts are the primary concern near Bozeman and Big Sky. Yesterday, Alex and Doug triggered a small wind slab while looking at the snowpack on Saddle Peak ([video](#)). With new snow and strong to extreme winds overnight, expect to find fresh reactive wind drifts on many slopes. While the lower snowpack is generally stable ([Buck Ridge video](#), [Beehive video](#)), yesterday, Big Sky Ski Patrol used explosives to trigger a 5 ft deep avalanche that broke on weak snow near the ground. Let this be a wake up call and reminder to not discount the basal weak layers that exist across our advisory area. The avalanche danger is rated [MODERATE](#) on wind-loaded slopes and [LOW](#) on all others.

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 Education Opportunities:

Get your avalanche brain ready for the season at one of the many classes listed on our [education calendar](#), and list of upcoming events below.

**Every Saturday near Cooke City**, 10 a.m.-3 p.m. FREE snowpack update and transceiver/rescue training. Stop by for 20 minutes or more at the Round Lake Warming Hut.

### Friends of GNFAC Powder Blast Fundraiser

The Friends of the Avalanche Center are hosting the [Virtual Powder Blast](#) fundraiser. With only \$1,000 left to go, help us reach the \$65,000 goal. Your donations support *free and low-cost avalanche education, beacon checkers at trailheads, beacon parks, weather stations, and GNFAC programs!*