

## **GNFAC Avalanche Forecast for Tue Jan 24, 2023**

Good morning. This is Dave Zinn with the Gallatin National Forest Avalanche Forecast on Tuesday, January 24th at 7:15 a.m. Today's forecast is sponsored by [Archer Construction](#) and [Gallatin County Sheriff Search and Rescue](#). This forecast does not apply to operating ski areas.

### Mountain Weather

This morning, temperatures are in the single digits F with 10-25 mph winds from the west to the north. The mountains around Bozeman and Big Sky received 1-2" of snow, with nothing elsewhere. Today, temperatures will be in the teens F with 10-25 mph winds from the southwest to the northwest. Under a northwest flow, the mountains around Bozeman, Big Sky and Cooke City will receive 4-6" of new snow by tomorrow morning, with 1-2" near West Yellowstone.

### Snowpack and Avalanche Discussion



**Madison Range   Southern Gallatin   Lionhead Range   Cooke City**

A weak layer of surface hoar buried six inches to two feet deep and drifting snow make human-triggered avalanches possible in the mountains around Big Sky, West Yellowstone and Cooke City. Persistent weak layers within the snowpack are our principal drivers of decision-making today. Yesterday, after thoroughly assessing the hazard presented by a feathery layer of buried surface hoar ([photo](#)), weak snow near the bottom of the snowpack caused us to reconsider our terrain choices at Bacon Rind ([video](#)). A group of riders near Two Top outside West Yellowstone excluded avalanche terrain from their travel plan after finding three stripes of surface hoar in the upper 20" of their snowpits ([observation](#)). Skiers in Cooke City recognized the same issue on Henderson Mountain ([observation](#)). Either thoroughly assess snowpack for instability related to weak layers or take a cue from the riders at Two Top and avoid slopes steeper than 30 degrees altogether ([Ian's Hebgen Lake Video](#)).

The mountains around Big Sky received up to five inches of snow in the last two days, and winds gusting to 40 mph are drifting this fresh snow into slabs that will avalanche in steep terrain. On Saturday, a skier outside the boundary of Big Sky Resort triggered a wind-loaded slope that broke 150' wide ([details and photo](#)). Even without the new snow, riders north of West Yellowstone reported the formation of isolated drifts ([observation](#)). Do not underestimate the power of a small avalanche and avoid wind-loaded slopes, especially when terrain traps are present.

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



**Bridger Range   Northern Gallatin**

The mountains near Bozeman received 2-5" of low-density snow in the last two days. Skiers in the Bridger and Northern Madison Ranges reported wind drifts and loose snow avalanches ([observations 1, 2](#)). Since noon yesterday, winds averaging 15-35 mph are transporting any fresh snow into drifts that can avalanche today. Do

not underestimate these slabs of drifted snow, especially in terrain where cliffs, trees or rocks increase the consequences of getting swept down the hillside. Alex, Ian, and I all noted drifting snow as our primary concern in the Bridger Range this weekend ([Texas Meadows video](#)). In larger scale terrain, the concern is correspondingly bigger ([Saddle Peak video](#)).

New snow has added minimal weight to the snowpack, and avalanches breaking on sugary layers of facets within the snowpack remain unlikely. However, as snow adds up this week, they may “wake up” and produce avalanches.

Watch for instabilities related to new and wind-loaded snow, such as avalanches, cracking or drifts. Avoid slopes where these are present and perform a test to assess weak layers within the snowpack.

The avalanche danger is [MODERATE](#).

Please share avalanche, snowpack or weather observations via our [website](#), email ([mtavalanche@gmail.com](mailto:mtavalanche@gmail.com)), phone (406-587-6984), or Instagram ([#gnfacobs](#)).



## Island Park

A weak layer of surface hoar buried 1-2 feet deep and drifting snow make human-triggered avalanches possible today. Persistent weak layers are our primary cause for concern and should be the principal driver of your decision-making. Thoroughly assess the snowpack and refrain from entering avalanche terrain if there are signs of instability related to weak layers or wind-drifted snow. Or choose to avoid slopes steeper than 30 degrees altogether.

## Upcoming Avalanche Education and Events

Our education calendar is full of awareness lectures and field courses. Check it out: [Events and Education Calendar](#).

January 26, 6-7 p.m., FREE Avalanche Awareness in Cody, WY. Information [HERE](#).

January 27, 6:30 p.m., DILLON Avalanche Fundamentals. Information and course registration [HERE](#).

February 3, 9 a.m.-3 p.m., LIVINGSTON Avalanche Fundamentals. Information and course registration [HERE](#).

February 9, FREE Avalanche Awareness at REI Bozeman. More details to come.

Every Saturday, 10 a.m. - 2:00 p.m. *Avalanche Rescue Training*, drop in for any amount of time. Round Lake Warming Hut, Cooke City. Free.

[Loss in the Outdoors](#), is a support group for those who have been affected by grief and loss related to outdoor pursuits. Check out the link for more information.

## KING AND QUEEN OF THE RIDGE, FEBRUARY 4TH

Do you like to hike? Do you like to ski? Then the King & Queen of the Ridge is for you. Hike, ski and raise money for the Friends of the Avalanche Center in their 2nd biggest fundraiser of the year. Join the effort to promote and support avalanche safety and awareness! Fundraising prizes for the top 5 individuals who raise over \$500. *No racing is necessary to compete for the fundraising prizes.* Info is [HERE](#). Race participants for the February 4th event must register separately with Bridger Bowl [HERE](#).