

# **GNFAC Avalanche Forecast for Thu Mar 11, 2021**

Good Morning. This is Doug Chabot with the Gallatin National Forest Avalanche Forecast on Thursday, March 11th at 7:00 a.m. Today's forecast is sponsored by [World Boards](#) and [Mystery Ranch](#). This forecast does not apply to operating ski areas.

## Mountain Weather

In the last 24 hours, the Big Sky area got a dusting of snow and Cooke City got an inch. Wind is remarkably calm with temperatures of 5-10 F under mostly clear skies. Today will be sunny with light west to north breezes and temperatures rising into the high thirties. Temperatures will warm through the weekend and no snow is expected until early next week.

## Snowpack and Avalanche Discussion



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

The snowpack has weak snow near the ground (sugary facets/depth hoar), but is mostly stable. *Weak* and *stable* are contradictory terms but describe two different things. The snow structure is poor since it's foundation is crumbly snow. It can not hold much weight, especially weight that is applied quickly such as a big snowstorm, and is considered weak. Yet it is mostly stable because it is in a state of rest. The snowpack is relaxed, feeling good and not being tasked to hold up a big load of new snow.

Weak layers near the ground are scary because avalanches will be deep, but triggering them is unlikely on most slopes. The exceptions are isolated areas with a thin snowpack where a person could trigger a slide and have it propagate under adjacent, deeper snow. Dave and I were in Tepee Basin yesterday and found weak snow 5-feet under the surface and got it to break in our stability test ([video](#)), a cautionary message that a skier or rider could trigger a slide on the wrong slope. In order to deal with the uncertainty of these conditions we adhere to strict travel protocols just in case we err and trigger a slide. Ian's [video](#) from Tuesday in the northern Bridger Range lays this travel advice on us clearly: only expose one person at a time, watch each other from a safe spot, carry rescue gear and take a quick look at the snow layering before diving onto steep terrain.

For today, the avalanche danger is rated [LOW](#) on all slopes.

A caveat: Wet, loose snow avalanches could occur on steep slopes if the temperatures are warmer than predicted. Roller balls and pinwheels of snow are signs of instability at the surface and a warning that steep slopes should be avoided.



[Cooke City](#)

The mountains around Cooke City got an inch of snow last night with no wind. This is not enough snow to adversely affect the good snow stability, especially since slopes lack a widespread weak layer. Snowfall on Monday and Tuesday (6-10") may have been blown into drifts and skiers on Tuesday saw small avalanches

involving only new snow ([photo](#)). These isolated instabilities are reminders to carry rescue gear, travel one at a time, watch each other and take a moment to assess the snowpack before committing to steep terrain. Overall the mountains have safe avalanche conditions and the danger is rated [LOW](#).

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:

**March 20, 5:30 p.m.**, Snowpack Update for Bozeman Splitfest, online [Link to Join HERE](#)

**March 24, 6 p.m.**, Free 1-Hour Avalanche Awareness, online [Link to Join HERE](#)

**March 29, 6 p.m.**, Free 1-Hour Avalanche Awareness, online [Link to Join HERE](#)