

## **GNFAC Avalanche Forecast for Mon Dec 21, 2020**

Good Morning. This is Dave Zinn with the Gallatin National Forest Avalanche Forecast on Monday, December 21st at 7:15 a.m. This forecast is sponsored by [World Boards](#) and [Mystery Ranch](#). This forecast does not apply to operating ski areas.

### Mountain Weather

New snowfall favored the southern ranges with 6" in Cooke City and 3" near West Yellowstone while the mountains around Bozeman and Big Sky remained dry. West winds blew 15-30 MPH gusting up to 75 MPH. Snow will continue today with 5-6" in the mountains around Cooke City, 1-2" in the Lionhead area and a trace in the mountains around Bozeman and Big Sky. Winds will blow 5-15 MPH from the southwest before ramping back up this evening and mountain temperatures will be in the 30s.

### Snowpack and Avalanche Discussion



#### Lionhead Range Island Park

New snow and wind drifted snow loading a weak foundation of sugary facets has created dangerous avalanche conditions in the mountains around West Yellowstone. Doug and I rode to Ski Hill yesterday and triggered two avalanches by walking across the top of the slope. These avalanches released 30-75' below us, propagated and ran well into the trees below ([video](#), [photo](#), [photo](#)). Yesterday's 3" of new snow (0.3" of [snow water equivalent](#) - SWE) will keep the snowpack at its breaking point. Stay off and out from under steep slopes being extra cautious around drifted slopes that will be hair-trigger today.

The danger is rated **HIGH** on wind-loaded slopes and **CONSIDERABLE** on all other slopes.



#### Cooke City

Cooke City received 6" of new snow (0.4" SWE) in the last 24 hours bring the storm total to 10" (0.7" SWE). Skiers and riders are reporting more snow at higher elevations with avalanches breaking within the new snow. Yesterday, a natural avalanche released 18" deep across Astral Lake from a group assessing the snowpack ([photo](#)). This avalanche told the group what they needed to know about the stability and should inform your decisions as well. Cooke City does not have widespread weak layers and avalanches breaking deeper in the snowpack are unlikely ([video](#)). However, avalanches involving the new snow alone are large enough to bury or kill a skier or rider. Route selection designed to avoid steep terrain and thorough snowpack assessment is vital today as human triggered avalanches are likely and natural avalanches are possible and the avalanche danger is rated **CONSIDERABLE**.



#### Gallatin Range Madison Range

The Gallatin and Madison Ranges haven't received much new snow, but strong winds formed unstable snowdrifts on top of a weak layer of faceted snow ([video](#)). A skier in Beehive had a scare when a cornice collapsed unexpectedly, triggering the slope below ([photo](#), [photo](#)). In Hyalite, climbers and skiers reported small natural avalanches on the west-facing slope of Overlook Mountain and near Hyalite Peak with wind-blown snow continuing to drift ([photo](#)). A group of riders at Buck Ridge got consistently unstable test results on wind-drifted slopes. Watch for cracking around your skis or sleds and avoid steep wind-drifts where human-triggered avalanches are likely.

The danger is rated **CONSIDERABLE** on wind-loaded slopes and **MODERATE** on all other slopes.



## Bridger Range

Recent storms have missed the Bridger Range, but strong winds transported the remaining soft snow into stiff drifts where human-triggered avalanches are possible in steep terrain ([photo](#), [video](#)). These drifts will take longer to stabilize because the snowpack's foundation is a weak layer of sugary facets that have demonstrated their inability to support a load in other ranges. Assess slopes for wind-drifting by feeling for a hollow or drum-like upper layer and watching for shooting cracks or active drifting. Turn around if you find them and search for softer snow.

Today the avalanche danger is **MODERATE** on wind-loaded slopes and **LOW** on 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](#).

**TONIGHT** - 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](#).