

## **GNFAC Avalanche Forecast for Sat Dec 16, 2017**

Good Morning. This is Eric Knoff with the Gallatin National Forest Avalanche Advisory issued on Saturday, December 16<sup>th</sup> at 6:30 a.m. Today's advisory is sponsored by [Knoff Group Real Estate](#) and [Yellowstone Ski Tours](#). This advisory does not apply to operating ski areas.

### Mountain Weather

At 5 a.m. the mountains have picked up 2-3" of new snow. Currently, it's still snowing lightly and temperatures are in the teens to low 20's F. Winds are blowing 5-15 mph out of the west. Today, snow will continue through the morning hours and the mountains will pick up an additional 1-3" by this afternoon. Skies begin to clear later in the day and temps will warm into the 20's F. Winds will continue to blow 5-15 mph out of the west. No snow is expected tonight through tomorrow.

### Snowpack and Avalanche Discussion



**Bridger Range   Gallatin Range   Madison Range   Lionhead Range   Cooke City**

This storm looks to be weaker than originally forecasted. By the time it's over, the mountains will likely pick up 3-5" of low density snow. This won't add a significant amount of stress to the snowpack, but it will be enough produce heightened avalanche conditions. On some slopes, the new snow is being deposited on a weak layer of near surface facets that formed during the recent high pressure. Alex and I found this layer on the west side of the Bridger Range ([photo](#), [video](#)) and I also found it in the Lionhead area near West Yellowstone yesterday. It's safe to say this persistent weak layer exists throughout the advisory area ([photo](#)).

Today, human triggered avalanches will be possible on wind loaded and non-wind loaded slopes. In areas where the new snow has been deposited over a weak old snow surface, it will be possible to trigger small soft slab avalanches in steeper terrain. These slides won't carry a tremendous amount of volume, but they could easily catch and carry a skier or rider into unfavorable terrain. Watch for signs of instability such as cracking/collapsing and avoid slopes where these signs are present.

Fortunately, this storm did not arrive with a heavy amount of wind, so wind loading won't be a major concern. There will be small isolated wind slabs near the ridgelines, but these should be easy to recognize and avoid. In the Bridger Range, wind slabs that formed prior to this storm could still be a problem. On Thursday, a skier triggered a wind slab on the Football Field south of Bridger Bowl that ran over the cliffs hundreds of feet below. Today, these older slabs should be more stubborn, but they're something to keep in mind when traveling in the backcountry around the Bridgers. In all areas, manage you're terrain carefully.

Today, human triggered avalanches are possible and the avalanche danger is rated **MODERATE**.

If you get out and have any avalanche or snowpack observations to share, drop a line via our [website](#), email ([mtavalanche@gmail.com](mailto:mtavalanche@gmail.com)), phone (406-587-6984), or Instagram ([#gnfacobs](#)).

### **Upcoming Avalanche Education and Events**

## Events and Education Calendar

### BOZEMAN

Dec. 21, **Avalanche Awareness**, 6-7:30 P.m. at Play It Again Sports, Bozeman

Jan. 12 and 13, **Companion Rescue Clinic**, [Info and Register](#)

Jan. 17, 18 and 20 or 21, **Introduction to Avalanches w/ Field Day**, [Info and Register Here](#)

Jan. 24, 25 and 27, **Advanced Avalanche Workshop w. Field Day**, [Info and Register Here](#)

Feb. 9 and 10, **Companion Rescue Clinic**, [Info and Register](#)

### WEST YELLOWSTONE

Today and tomorrow, **Snowmobiler Introduction to Avalanches with Field Course**, [Info and Register Here](#)

Jan. 6, **Avalanche Awareness**, 7-8 p.m. at West Yellowstone Holiday Inn Conference Center

### COOKE CITY

Today, **Avalanche Rescue**, 10-2 on @ Lulu Pass road