

## **GNFAC Avalanche Forecast for Sun Jan 21, 2018**

Good Morning. This is Alex Marienthal with the Gallatin National Forest Avalanche Advisory issued on Sunday, January 21<sup>st</sup> at 6:45 a.m. Today's advisory is sponsored by [World Boards](#) and the [Community Food Co-op](#). This advisory does not apply to operating ski areas. The Avalanche Center has been granted an "exception" and will remain open at full capacity during the government shutdown.

### **AVALANCHE FATALITY**

Yesterday afternoon a snowmobiler was caught, buried and killed in an avalanche south of Reas Peak on the Caribou-Targhee National Forest near Island Park, Idaho. The rider was located with a beacon and buried deeply. His group and others tried unsuccessfully to resuscitate him. We will post more information as it becomes available.

### **Mountain Weather**

The mountains did not get any snow since yesterday morning. Temperatures this morning are in the single digits to teens F. Wind overnight was north-northwest at 5-15 mph near Big Sky, Hyalite and Cooke City. In the Bridger Range and near West Yellowstone wind was 15-20 mph with gusts to 30 mph. Today will be partly cloudy with temperatures in the teens to low 20s F, and northerly wind at 10-20 mph will shift westerly this afternoon. Snow is expected early tomorrow with 3-5" possible by tomorrow evening.

### **Snowpack and Avalanche Discussion**



#### **Lionhead Range**

The Lionhead area near West Yellowstone has all the red flags of an unstable, dangerous snowpack. The list starts with 2 feet of snow equal to 2" of [snow water equivalent](#) (SWE) on Friday, strong wind last night, and weak facets buried 3-4' deep. Additionally, there have been snowmobile triggered avalanches or large collapses almost daily for two weeks ([photo](#), [photo](#)), and three people killed in avalanches nearby in the last three weeks. I was on Lionhead Ridge yesterday and my group collapsed a large, low angle slope after finding stable results in our stability tests ([video](#)). Signs of instability are slowly becoming less obvious. It may not be the first person on a slope to trigger it, but large, deadly avalanches are likely today. Avoid steep slopes and terrain below. Avalanche danger is **HIGH** on wind loaded slopes and **CONSIDERABLE** on all other slopes.



#### **Bridger Range   Gallatin Range   Madison Range   Cooke City**

In the Bridgers, Gallatin and Madison Ranges, and mountains near Cooke City 1-1.5 feet of snow (1-1.5" SWE) that fell Friday makes avalanches possible today. Strong wind in some locations drifted this snow into fresh slabs that were easily triggered by skiers in the Bridger Range ([photo](#)) and riders in Taylor Fork ([photo](#)) yesterday. Today, wind slabs 1-3 feet thick near ridgelines or the edges of cliffs and gullies are easy to trigger.

Recent snow also buried a weak layer of surface hoar ([photo](#)). The distribution of this weak layer is uncertain, but is more likely on slopes sheltered from sun and wind. Avalanches are possible where this weak layer was buried, and careful snowpack assessment is essential before travel in avalanche terrain. Quickly dig 1-2' to rule out this weak layer before riding any steep slope.

Avalanches breaking on facets 2-4' deep are becoming less likely, but are possible and could be large ([video](#)). This weak layer is most unstable and likely to trigger where the snowpack is 3-5' deep or shallower. Skiers near Cooke City earlier this week saw avalanches and had large collapses on this layer ([photo](#)). Be cautious of steep slopes where the snowpack is relatively shallow or highly variable.

Today, avalanche danger is [CONSIDERABLE](#) on wind loaded slopes and [MODERATE](#) on all other slopes.

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](#)).

## King and Queen of the Ridge

[King and Queen of the Ridge](#), Saturday, February 3<sup>rd</sup>. A Hike and Ski/Ride-a-Thon fundraising event to support the Friends of the Gallatin National Forest Avalanche Center. Sign up and start collecting pledges [HERE](#).

## Upcoming Avalanche Education and Events

### [Events and Education Calendar](#)

#### BOZEMAN

**Tonight, Darren Johnson Avalanche Education Memorial Fundraiser**, Beehive Basin Brewery in Big Sky @ 7 pm

Jan. 22, **MAP Brewing Pint Night**, 4-8 p.m. MAP donates 50 cents of every pint sold to the Friends of the Avalanche Center.

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

Feb. 6<sup>th</sup>, **Sidecountry specific avalanche awareness for family and friends**. 6-8 p.m. @ Beal Park

Feb. 7<sup>th</sup>, **Woman's specific avalanche awareness**, 6-7:30 p.m. @ REI in Bozeman

Feb. 7<sup>th</sup>, **Avalanche awareness**, 6-7:00 p.m. @ Roski Hall MSU

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

March 2<sup>nd</sup>, **Avalanche Awareness**, 6-7:00 p.m. Bozeman Split Fest

March 7<sup>th</sup>, **Avalanche Awareness**, 6-7:30 p.m. @ REI

#### Dillion

Feb. 24<sup>th</sup> and 25<sup>th</sup>, **Snowmobile intro to avalanches w/ field course**. Visit [mtavalanche.com/workshops/calendar](http://mtavalanche.com/workshops/calendar) for more info.

#### WEST YELLOWSTONE

Feb. 3, **Avalanche Awareness**, 7-8 p.m. at West Yellowstone Holiday Inn Conference Center

#### COOKE CITY

Every Friday and Saturday, **Current Conditions Update and Avalanche Rescue**, Friday 6:30-7:30 p.m. at The Antler's Lodge in January. Saturday anytime between 10-2 @ Round Lake.