

## **GNFAC Avalanche Advisory for Mon Feb 5, 2018**

Good Morning. This is Alex Marienthal with the Gallatin National Forest Avalanche Advisory issued on Monday, February 5<sup>th</sup> at 7:00 a.m. Today's advisory is sponsored by [Grizzly Outfitters](#) in partnership with **The Friends of the Avalanche Center**. This advisory does not apply to operating ski areas.

The Gallatin National Forest Avalanche Center is issuing a Backcountry Avalanche Warning for the mountains near **Cooke City**. More than 3 feet of heavy snow since Friday and strong winds create dangerous avalanche conditions. The avalanche danger is rated **HIGH** on all slopes. Natural and human triggered avalanches are likely. Avalanche terrain and avalanche runout zones should be avoided.

This warning will either expire or be updated by 6:00 a.m. on February 6, 2018.

### Mountain Weather

Since yesterday morning, 10-12" of dense new snow fell in the mountains near Cooke City and the northern Bridger Range. Near Bridger Bowl and Hyalite got 1-2" of new snow, and near Big Sky and West Yellowstone got 2-4". Temperatures are currently high teens to 20s F. Wind overnight was westerly at 20-30 mph with gusts of 50-60 mph. Today, temperatures will be in the 20s F with westerly wind at 20-30 mph. Snow showers will continue through tonight with 4-6" in the mountains by tomorrow morning.

### Snowpack and Avalanche Discussion



#### Cooke City

### Avalanche Warning

Since Friday, the mountains near Cooke City got over 3 feet of snow equal to 3.3" of [snow water equivalent](#) (SWE). Strong westerly wind drifted this snow into slabs at least 2-4' deep, which will avalanche naturally. These avalanches can run far into flat terrain and have the power to break large trees. Large, destructive avalanches were observed last week ([video](#), [photo](#)), and on Saturday a skier triggered an 18" deep, 150' wide avalanche on a low angle, wind loaded slope ([photo](#)). Similar or larger slides are likely today. Avoid steep slopes and flat runout zones below, especially underneath heavily wind loaded slopes. Find safe riding on low angle slopes sheltered from the wind and not exposed to steep, wind-loaded terrain above. Large natural avalanches are likely today and the avalanche danger is **HIGH** on all slopes.



#### Bridger Range

The northern Bridger Range has up to a foot of new snow equal to 1.1" SWE, though only 1-2" of new snow fell near Bridger Bowl. Avalanches are possible where dense new snow is deeper than 6-8". On wind loaded slopes, slabs 1-3' deep are likely and could avalanche naturally. More snow and wind today will increase the size and

distribution and of these slabs. Avoid steep, wind loaded slopes and be extra cautious of all steep terrain where new snow is deeper than 6-8". Avalanche danger is [CONSIDERABLE](#) on wind loaded slopes and [MODERATE](#) on non-wind loaded slopes.



## Southern Madison Southern Gallatin Lionhead Range

The mountains near West Yellowstone and the southern Madison and Gallatin ranges got 3-4" of new snow equal to .5" of SWE. Strong westerly wind drifted recent snow into slabs up to a foot thick that are possible to trigger along ridgelines, cross-loaded terrain features, and the bottom of cliffs. Doug and I skied near Hebgen Lake yesterday, and our snowpack tests showed avalanches are possible on a layer of surface hoar buried 1-2' deep, or on weak facets near the ground ([video](#)). The surface hoar is not on every slope, and facets near the ground are difficult to trigger. Dig a hole to assess these layers before riding steep slopes. Today, avalanches are possible and avalanche danger is [MODERATE](#).



## Northern Gallatin Northern Madison

The mountains near Big Sky and Hyalite got 2-3" of new snow overnight and 7-10" since Friday. Strong winds drifted this snow into fresh slabs that are possible to trigger. Over the weekend, skiers in Hyalite, Beehive, and the northern Bridger Range reported small natural and skier triggered wind slabs. Be cautious of wind loaded slopes near ridgelines and at the base of cliffs. Avoid riding above cliffs, dense trees, or other terrain traps to minimize consequences if caught in a slide. On non-wind loaded slopes the snowpack is generally stable ([video](#)). Avalanche danger is [MODERATE](#) on wind loaded slopes and [LOW](#) on non-wind loaded 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](#)).

## Upcoming Avalanche Education and Events

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

#### BOZEMAN

Feb. 6<sup>th</sup>, **Sidecountry specific avalanche awareness for family and friends**. 6-8 p.m. @ Beall 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. @ Roskie Hall MSU

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

Feb. 28<sup>th</sup>, **Know Before You Go** avalanche awareness, 7:00 p.m. @ Procrastinator Theater, MSU

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

PHILLIPSBURG

Feb. 8<sup>th</sup>, **Avalanche Awareness**, 6:30-8:30 p.m. @ the new Fire Hall

DILLON

Feb. 24<sup>th</sup> and 25<sup>th</sup>, **Snowmobile intro to avalanches w/ field course**. More info:  
<https://msuextension.org/conference/>.

WEST YELLOWSTONE

Feb. 10<sup>th</sup>, **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 Soda Butte Lodge in February. Saturday anytime between 10-2 @ Round Lake.