

# **GNFAC Avalanche Advisory for Sat Mar 11, 2017**

Good Morning. This is Alex Marienthal with the Gallatin National Forest Avalanche Advisory issued on Saturday, March 11<sup>th</sup> at 7:00 a.m. Today's advisory is sponsored by [Gallatin Valley Snowmobile Association](#) and [Montana Ale Works](#). This advisory does not apply to operating ski areas.

## Mountain Weather

As snow tapered off yesterday morning the mountains near Big Sky and Cooke City got another 2-4" of dense snow. Yesterday, wind out of the west to southwest reached gusts of 40-50 mph. This morning, wind is west at 10-20 mph and temperatures are 20s to low 30s F. Under partly sunny skies today, wind will be westerly at 5-15 mph with temperatures reaching the mid-30s F. A round of snow showers tonight will drop 2-4" by tomorrow morning.

## Snowpack and Avalanche Discussion

Wet Snow: Warm temperatures and sunshine today will moisten the snow surface and make wet loose avalanches likely on steep slopes. Avalanche danger could rise to [CONSIDERABLE](#) on all slopes by late morning. Avoid steep slopes if you see roller balls or can make snowballs with damp snow on the surface.

## Cooke City

The mountains near Cooke City got 4-5 feet of snow totaling over 5" of [snow water equivalent](#) (SWE) in the last week. Eric rode north of town yesterday and found new snow bonded well on non-wind loaded slopes. He noticed natural avalanches on wind loaded slopes that were triggered by cornice falls ([photo](#)). Skiers in Sheep Creek saw a large natural avalanche that broke hundreds of feet wide, stepped down into older snow, and piled debris in flat terrain at the bottom ([photo](#)).

Strong to very strong wind over the last week grew cornices to massive sizes and formed thick drifts near ridgelines. These drifts are easy for a rider to trigger today, or could break naturally from a cornice fall. Avoid recently wind loaded slopes and give cornices space from above and below. Today, wind loaded slopes have a [CONSIDERABLE](#) avalanche danger and non-wind loaded slopes have a [MODERATE](#) danger.

## Lionhead area near West Yellowstone

### Madison Range Gallatin Range

The mountains south of Bozeman, near Big Sky and West Yellowstone got 2-3 feet of snow over the last week, and will get a reprieve from strong west to southwest wind today. Recent strong winds transported snow into fresh slabs and formed enormous, overhanging cornices along ridgelines. Yesterday I was in Beehive Basin and saw massive cornices that are ready to crumble ([photo](#), [video](#)). Over the last week, three motorized groups near West Yellowstone had close calls when they triggered cornices from the ridgelines above. Two riders escaped separate incidents unharmed as their machines were sucked over the edge ([video](#)), and another group was happy to be far away when a large cornice collapsed nearby ([photo](#)).

Be extra cautious on slopes below cornices and stay far from the edge of ridgelines. When approaching ridgelines from the windward, scoured and non-loaded side, stay away from the opposite, leeward edge unless you are absolutely positive it is not overhanging cornice. Today, avalanche danger is [CONSIDERABLE](#) on wind

loaded slopes and [MODERATE](#) on non-wind loaded slopes.

### Bridger Range

The Bridger Range got 6-8" of snow Wednesday night, and avalanches are possible to trigger where moderate west winds drifted this snow into slabs. These slabs are most likely near ridgelines and possible on mid-slope convex terrain. Approach wind loaded slopes with caution and evaluate terrain for consequences of even a small slide.

Today, avalanches are possible on wind loaded slopes which have a [MODERATE](#) danger. Avalanche danger is [LOW](#) on non-wind loaded slopes.

I will issue the next advisory tomorrow morning by 7:30 a.m.

We rely on your field observations. Send us an email with simple weather and snowpack information along the lines of what you might share with your friends: How much new snow? Was the skiing/riding any good? Did you see any avalanches or signs of instability? Was snow blowing at the ridgelines? If you have snowpit or test data we'll take that too, but this core info is super helpful! Email us at [mtavalanche@gmail.com](mailto:mtavalanche@gmail.com) or leave a message at 406-587-6984.

### Upcoming Events and Education

**Beacon Training Park at Beall:** Open and free to the public for avalanche beacon practice seven days a week from 9 a.m. to 8 p.m., southeast corner of Beall Park in Bozeman ([photo](#)).

### COOKE CITY

**Today! UYSC 21<sup>st</sup> Annual Hog Roast.** More info [here](#). Free avalanche rescue practice.