

# **GNFAC Avalanche Forecast for Mon Feb 10, 2025**

This is Alex Marienthal with the avalanche forecast for Monday, February 10th, at 7:00 a.m. sponsored by [Alpine Orthopedics & Sports Medicine](#), [Stronghold Fabrication](#) and [Yellowstone Ski Tours](#). This forecast does not apply to operating ski areas.

## Mountain Weather

Yesterday snow favored the Bridger Range with 6" of low density snow, 1" fell in Hyalite and Big Sky, and zero to a trace near Cooke City, West Yellowstone and Island Park.

Wind was out of the west to southwest at 10-15 mph with gusts of 25-40, and this morning wind is shifting to the northwest and north at 5-15 mph. Temperatures are single digits above and below zero F.

Today, scattered cloud cover will bring a few flurries of snow with light west-northwest wind. Temperatures will reach low single digits above zero F before dropping to teens below zero overnight.

## Snowpack and Avalanche Discussion



### All Regions

Human-triggered avalanches are likely on wind-loaded slopes today. Recent snow was drifted into thicker and stiffer slabs which have been easy to trigger, and will remain reactive for at least another day.

Yesterday we witnessed and received reports of natural and rider triggered **wind slab avalanches** breaking 1-2 feet deep and 20-200 feet wide ([Avalanche activity list](#)). Notable avalanches among yesterday's activity were a couple snowmobiler triggered slides in the southern Madison Range ([photos](#)), and natural and snowboarder triggered avalanches near Cooke City ([photos](#), [video](#)).

Today similar slides can be triggered and be large enough to bury or injure a person. Even smaller slides can easily knock you off your feet and be dangerous in terrain with trees, cliffs or rocks. Avoid slopes steeper than 30 degrees that have recent wind-loading. Seek out slopes sheltered from wind, and consider smaller slopes with clean runouts that minimize the potential size and consequences of a slide.

**Persistent slab avalanches** are possible with weak, sugary layers of facets and surface hoar buried 1-3 feet deep below the last week's snow. We have not seen much, if any, recent activity on these layers, and they have shown mixed results in stability tests ([Mark's observation from Lionhead](#), [My observation from Cooke](#)). A couple larger slides near Cooke City a week ago, on [Crown Butte](#) and [Henderson Mtn.](#), might have broken on persistent weak layers. These show types of terrain where a larger persistent slab avalanche might be possible and are worth avoiding for now: big slopes that are heavily wind-loaded below prominent ridgelines. Other areas where these weak layers might have been more well preserved are [Mt. Ellis](#), [Bacon Rind](#) and [Taylor Fork](#).

Carefully evaluate the snowpack for recent wind-loading and buried weak layers before getting onto steeper slopes. Throughout the forecast area the avalanche danger is [CONSIDERABLE](#) on wind-loaded slopes and [MODERATE](#) otherwise.

Special note: At lower elevations around the valleys snow depths are deep, particularly on steep slopes that typically don't hold much snow and avalanche potential. Dave noted this abundance of snow in Sourdough canyon and made a [video](#) and [observation](#) with avalanche concerns and travel advice to keep in mind for these

areas.

## **Upcoming Avalanche Education and Events**

Our education calendar is full of awareness lectures and field courses. Check it out: [Events and Education Calendar](#)

**February 20, 4-7 p.m.** Beacon BBQ at Uphill Pursuits in Bozeman. Come try out different brands of avalanche transceivers (or practice with your own!) with coaching from Friends of GNFAC instructors and free hotdogs.

**Every weekend in Cooke City:** Friday at The Antlers at 7 p.m., Free Avalanche Awareness and Current Conditions talk, and Saturday from 10 a.m.-2 p.m. at Round Lake Warming Hut, Free Rescue Practice.