

GNFAC Avalanche Forecast for Sun Jan 2, 2011

Good morning. This is Doug Chabot with the Gallatin National Forest Avalanche Advisory issued on Sunday, January 2, at 7:30 a.m. **Montana Fish, Wildlife and Parks Snowmobile Program**, in partnership with the **Friends of the Avalanche Center**, sponsors today's advisory. This advisory does not apply to operating ski areas.

Mountain Weather

Under cloudy skies a trace of snow has fallen this morning. In the northern mountains temperatures are in the single digits while around West Yellowstone and Cooke City the temperatures are zero to 10 below. Winds are from the west to northwest averaging 15-20 mph with gusts in the 30s. Today will remain cloudy with temperatures warming into the teens as northwest winds blow 20-30 mph. Small weather disturbances will bring flurries, but accumulations will be less than an inch by tomorrow morning.

Snowpack and Avalanche Discussion

The northern Madison Range:

Slopes continue to show instability in the mountains around Big Sky. On Friday, snowmobilers triggered a slide in the first Yellowmule on Buck Ridge. That same day a skier on Yellow Mountain got collapsing as he approached a steep slope. In the last 48 hours strong westerly winds blew snow into slabs that broke with ski cuts; all the ski patrols reported this. Yesterday, a skier saw evidence of a few natural slides on wind-loaded slopes near Mt. Wilson and Dudley Peak breaking 12-18" deep. He got collapsing/whumphs as he skied, had cornices crack under his feet and got the buried surface hoar to break clean in all four of his snowpits.

Winds are still blowing and loading slopes. Last week's storm left plenty of snow to move which will keep the danger elevated. On slopes with a buried surface hoar layer avalanches will break into deeper snow. New snow last week, continued winds, recent avalanche activity and a persistent weak layer make heading into the backcountry serious business. For today, the avalanche danger is rated **CONSIDERABLE** on all slopes.

The Bridger, southern Madison and entire Gallatin Ranges, the Lionhead area near West Yellowstone, the mountains around Cooke City and the Washburn Range:

We received many observations in the last two days from riders and skiers who headed out in the zero degree temperatures. The reports had a common thread: wind-loaded slopes were sensitive to human triggers. The Bridger Bowl Ski Patrol found wind pillows 4-16" deep avalanching from a simple jump. On Electric Peak in the southern Gallatin Range, a skier wrote about lots of new snow and thin wind drifts cracking as he toured.

Besides the recent wind slabs, the snowpack is generally strong with good stability. Last Wednesday we found solid snow near Hebgen Lake and also on Mt. Ellis two days ago. There are isolated slopes with weak snow: some spotty surface hoar buried near Flathead Pass and down south in Bacon Rind. A few stability tests a couple feet deep will tell you if there are layers to be concerned with. There's no need to dig to the ground since the weak snow is found in the upper pack. For today, the avalanche danger is rated **CONSIDERABLE** on all wind-loaded slopes steeper than 35 degrees and **MODERATE** on all others.

Eric will issue next advisory tomorrow morning at 7:30 a.m. If you have any snowpack or avalanche observations, drop us a line at mtavalanche@gmail.com or call us at 587-6984.

Avalanche Education

There are many upcoming avalanche classes in the month of January. Check them on our education page at:
<http://www.mtavalanche.com/workshops/calendar>