

## **GNFAC Avalanche Advisory for Sat Jan 16, 2010**

Good Morning. This is Mark Staples with the Gallatin National Forest Avalanche Advisory issued on Saturday, January 16, at 7:30 a.m. The **Yellowstone Club**, in cooperation with the **Friends of the Avalanche Center**, sponsor today's advisory. This advisory does not apply to operating ski areas.

### Mountain Weather

This morning temperatures were in the mid-high 20's F except in the mountains near West Yellowstone where they were in the teens F. Winds increased overnight and this morning were blowing in the 30's and 40's from the W and SW. Today will start mostly sunny with clouds increasing this afternoon. Temperatures will rise to near 32 degrees F and winds will blow 20-30 mph from the WSW.

### Snowpack and Avalanche Discussion

*The Madison Range, and the Lionhead area near West Yellowstone:*

The weakest snow in the advisory area exists in the mountains near Big Sky and West Yellowstone. Yesterday near Big Sky skiers triggered two avalanches but were not caught or injured. One slide likely involved a fresh wind slab about 12 inches thick while the other probably broke on buried facets about 3ft deep. The existence of these buried facets and yesterday's avalanche activity keeps my confidence in the snowpack very low. Do not trust the snowpack and give every slope a thorough stability assessment. A similar situation existed on this same weekend last year. The snowpack had become less sensitive and avalanche activity had decreased, yet three avalanche fatalities occurred on the same day in three separate avalanches. Today human triggered avalanches are probable on slopes steeper than 35 degrees where the avalanche danger is rated **CONSIDERABLE**. Less steep slopes have a **MODERATE** avalanche danger.

*The Bridger and Gallatin Ranges, the mountains around Cooke City and the Washburn Range:*

In the mountains near Bozeman and Cooke City the snowpack is slightly stronger. Doug and Eric covered many miles in the mountains north of Cooke City documenting **avalanche activity** that occurred over a week ago. Their **stability tests** indicated strengthening of the snowpack since then. In many areas similar conditions can be found, but some slopes remain weak as a pair of skiers found on the west side of the Bridger Range. Additionally some slopes contain wind slabs that may easily slide. Yesterday the Bridger Bowl Ski Patrol triggered a few slides of recently wind deposited snow up to 16 inches deep. Warm temperatures will help these wind slabs bond to underlying snow but they can still fracture under the weight of a skier or rider. Today many slopes will support the weight of a skier or rider but some will not. For this reason human triggered avalanches remain possible and the avalanche danger is rated **MODERATE**.

Eric will issue the next advisory tomorrow morning at 7:30 a.m. If you get out in the backcountry give us a call or email with your observations. You can reach us at 587-6984 or email us at [mtavalanche@gmail.com](mailto:mtavalanche@gmail.com).

### Avalanche Education

#### **Education Calendar**

##### **1. Cooke City Fire Hall**

One-hour Avalanche Awareness Class - Saturday, January 16<sup>th</sup> - 6pm to 7pm

**2. West Yellowstone, Holiday Inn**

One-hour Avalanche Awareness Class - Saturday, January 16<sup>th</sup> - 7pm-8pm

**3. Bozeman**

MMA Teen Avalanche Class: Lecture Thursday, January 21<sup>st</sup> & Field Session Saturday, January 23<sup>rd</sup>. To sign up or get more information, call Erin Taylor Montana Mountaineering Associations at 522-0659

**4. Bridger Bowl**

AAI Level 1 Avalanche Course - Friday, January 22<sup>nd</sup> to Sunday, January 24<sup>th</sup>

[www.americanavalancheinstitute.com](http://www.americanavalancheinstitute.com)

**5. Four Corners Groomer Shack**

RESCUE LECTURE: Tuesday, January 26<sup>th</sup> 7pm. The Gallatin Valley Snowmobile Association is having it annual Chili Feed at 6:30pm in the Groomer Shack at 4 corners.

**6. Billings**

Avalanche Awareness and Rescue Class-Wednesday, January 27<sup>th</sup>, 6-9 pm at Beartooth Harley.

**7. Big Sky**

Moonlight Basin Avalanche Course: Join Moonlight Basin for a comprehensive, two-day and one evening avalanche awareness class. Thursday, Jan 28<sup>th</sup> 5-9:30pm and Friday and Saturday, Jan 29&30 8am-4pm. Contact: [events@moonlightbasin.com](mailto:events@moonlightbasin.com) or 406-993-6026

**8. Bozeman**

BASIC AVALANCHE WORKSHOP: The Friends of the Avalanche Center and ASMSU Outdoor Rec are offering a Basic Avalanche Awareness Class the evenings Wed, Thur, 27 & 28 January with a field day on Saturday, 30 January. \$25 donation. No sign up required. <http://www.mtavalanche.com/education/classes/basic>

**9. West Yellowstone, Holiday Inn**

One-hour Avalanche Awareness Class - Saturday, January 30<sup>th</sup> - 7pm to 8pm