

Snowmachine triggered avalanche on Henderson

Henderson Mountain

Cooke City

1/15/2023

Code

HS-AMu-R1-D2-O

Elevation

10000

Aspect

NE

Latitude

45.05240

Longitude

-109.94500

Notes

Skied on Henderson mountain the afternoon of 1/16. Wind was calm, snowfall was light and steady through the day with 3-4" of new snow.

Dug a pit on the east side of Henderson at the ridgeline above Henderson Bench. ENE, 10,075' elev. ECTP19 x3 on a layer of [surface hoar](#) buried 60cm (2 feet) deep. HS 260cm. There was an avalanche a few hundred feet north on an east-northeast facing slope below the ridge. It appeared to be snowbike triggered and 1-2+ days old. 150' wide and 250' vertical. HS-AMu-R2-D2-O. It appeared to have broke about 2' deep on that layer of [surface hoar](#). (There was also a more recent natural avalanche (less than a day old) on Miller Ridge, slightly smaller. SS-N-R1-D1.5-O and probably broke on the [surface hoar](#) layer. Separate entry in avy log).

Number of slides

1

Number caught

0

Number buried

0

Avalanche Type

Hard slab avalanche

Trigger

Snowmobile

Trigger Modifier

u-An unintentional release

R size

1

D size

2

Bed Surface

O - Old snow

Problem Type

Persistent Weak Layer

Slab Thickness

24.0 inches

Vertical Fall

250ft

Slab Width

150.00ft

Weak Layer Grain type

Surface Hoar

Weak Layer grain size

6.00mm

Weak Layer Hardness

F+

Images

[Snowmobile triggered slide on Henderson \(3-5 days old\)](#)

[Rider triggered slide on Henderson Mtn.](#)

[ECTP 19 on Henderson Ridge](#)

[Henderson Ridge Profile - 16 Jan 2023](#)

Snow Observation Source

[Recent avalanches, concerning surface hoar layer](#)

Slab Thickness units

inches

Single / Multiple / Red Flag

Single Avalanche

Advisory Year

[22-23](#)