Large explosive triggered slide at Y.C.

Yellowstone Club Northern Madison 3/2/2019 Code

HS-ABc-R4-D3-G

Elevation

8400

Aspect

NE

Latitude

45.23510

Longitude

-111.44800

Notes

From YCSP: "Today the YC Ski Patrol conducted avalanche mitigation work above one of our roads. The area is outside of our ski area boundary and receives no skier traffic. A 2lb explosives charge was detonated from an aerial tram and triggered a R4/D3 avalanche that ran to the ground on depth hoar. The crown was 4', The max path width was around 250', and it ran 350 vertical feet to the bottom of the runout zone. The elevation was 8400' on a ENE aaspectand max slope angle of 36 degrees. Two sections of road, which were controlled for traffic, were buried with an estimated 15-20 feet deep deposition pile. We've seen this path go big in the Spring, but we can't recall it ever going quite this big."

Number of slides

1

Number caught

0

Number buried

0

Avalanche Type

Hard slab avalanche

Trigger

An explosive detonated above the snow surface (air blast)

Trigger Modifier

c-A controlled or intentional release by the indicated trigger

R size

4

D size

3

Bed Surface

G - Ground

Problem Type

Deep Persistent Slab

Slab Thickness

48.0 inches

Vertical Fall

350ft

Slab Width 250.00ft

Weak Layer Grain type

Depth Hoar

Images

Large explosive triggered slide at Y.C. deep crown

Large explosive triggered slide at Y.C. debris

Large explosive triggered slide at Y.C. crown

Large explosive triggered slide at Y.C.

Slab Thickness units

inches

Single / Multiple / Red Flag

Single Avalanche

Advisory Year

18-19