



Northwest
Avalanche
Center



HIKE • BIKE • SKI
ROSLYN, WA
110 W. Pennsylvania Ave, Roslyn, WA

An adventure oriented bookstore and cafe featuring freshly prepared meals, craft cocktails, great wine and awesome brews. Open seven days a week.

Mt Hood

Issued: 7:24 PM PST Monday, March 20, 2017

by Kenny Kramer

NWAC avalanche forecasts apply to backcountry avalanche terrain in the Olympics, Washington Cascades and Mt Hood area. These forecasts do not apply to developed ski areas, avalanche terrain affecting highways and higher terrain on the volcanic peaks above the Cascade crest level.

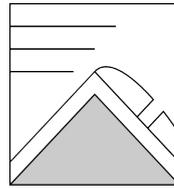
The Bottom Line: Above treeline, dangerous avalanche conditions should develop through the day with storm or wind slabs becoming touchy by afternoon. At lower elevations, shallow wet snow conditions should maintain the possibility of mostly small loose-wet avalanches. Avoid overhead hazard, such as the recently formed large cornices.

Elevation	Tuesday		Outlook for Wednesday
Above Treeline	Considerable	Dangerous avalanche conditions. Careful snowpack evaluation, cautious route-finding and conservative decision-making essential.	Considerable
Near Treeline	Moderate	Heightened avalanche conditions on specific terrain features. Evaluate snow and terrain carefully; identify problem features.	Moderate
Below Treeline	Moderate	Heightened avalanche conditions on specific terrain features. Evaluate snow and terrain carefully; identify problem features.	Moderate

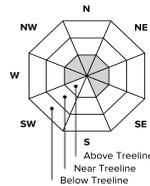
Avalanche Problems for Tuesday

Wind Slab

Wind slabs can take up to a week to stabilize. They are confined to lee and cross-loaded terrain features and can be avoided by sticking to sheltered or wind scoured areas.



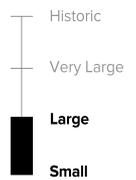
Avalanche Problem



Aspect/Elevation



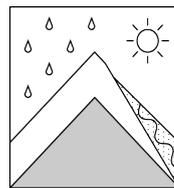
Likelihood



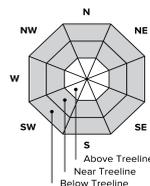
Size

Loose Wet

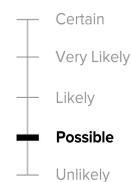
Loose wet avalanches occur where water is running through the snowpack, and release at or below the trigger point. Avoid terrain traps such as cliffs, gullies, or tree wells. Exit avalanche terrain when you see pinwheels, roller balls, a slushy surface, or during rain-on-snow events.



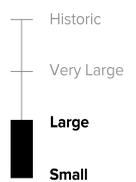
Avalanche Problem



Aspect/Elevation



Likelihood



Size

Avalanche Forecast for Tuesday

A weak disturbance will spread increasing light rain and snow at gradually rising freezing levels overnight Monday. Only light amounts of precipitation are expected overnight. This should begin to wet and weaken shallow surface snow layers.

A stronger band of moisture Tuesday should bring periods of moderate rain and snow at gradually rising freezing levels. Winds should be moderate along the ridges above treeline Tuesday.

These conditions should cause dangerous avalanche conditions through the day, building fresh wind slabs at higher terrain along ridges, mainly on NW-NE-E facing terrain. The wind slab problem should become increasingly sensitive to human trigger, especially by Tuesday afternoon. Watch for firmer wind transported snow on all aspects, especially in areas of complex terrain.

At lower elevations, light rain should maintain shallow wet snow conditions and make small loose-wet snow avalanches possible.

Avoid areas with terrain traps where a small loose wet avalanche could have unintended consequences.

It is always a good plan to travel well back from ridges, [suspected of cornice formation](#), or on steep slopes below cornices.

Avalanche Summary

Weather and Snowpack

The first week or so of March was very cool and snowy. NWAC stations at Mt Hood piled up about 6-7 ft of snow.

The 2nd week of March was equally active with non-stop Pacific frontal systems pummeling the PNW. Unfortunately, these systems delivered far more rain than snow. At least two regional avalanche cycles occurred during the stretch. Significant snowpack consolidation occurred over this period due to rainfall and warmer temperatures.

After a short respite from the active weather pattern on Thursday, another strong low pressure system brought about an inch of predominately rain to the NWAC Mt. Hood stations Friday night and Saturday morning. Rapid cooling late Saturday morning was followed by snow showers with light new snow accumulation. Strong W-SW winds were transporting new snow above treeline by mid-day Saturday.

Sunday was cool with light winds and mostly sunny skies at Mt. Hood. Increasing clouds Monday with moderate daytime warming allowed additional slow snowpack settlement.

Recent Observations

Mt. Hood Meadows pro-patrol reported a switch from rain to snow at mid-mountain by noon Saturday with strong W-SW winds beginning to build fresh new wind slab above treeline.

NWAC Observer, Laura Green was out Saturday and observed a snowscape of deep rain runnels from overnight rains. Along exposed ridges in higher elevations, wind slabs were forming along lee ridges as well as cornices.

Mountain Weather Synopsis for Tuesday & Wednesday

Bands of light to moderate showers continue their steady march from south to north across the region Tuesday. An upper trough remains well offshore and is directing the series of frontal shower bands across the region in SSW flow aloft. The SSW flow has also brought more mild air into the area with freezing levels pushing 7000 feet in most of the west slope Cascade and Mt Hood areas Tuesday. Another band of showers extends from about Crystal Mountain northward across the Mt Baker area, moving NNE. Some areas have mostly missed the precipitation while others have had some heavy showers Tuesday afternoon. The upper trough moves east to reach the coast early Wednesday and should be accompanied by another frontal passage to move across the Cascades midday Wednesday. This should renew light to moderate precipitation and gradually shift winds to a more westerly direction. Freezing levels should lower Wednesday as the trough passes. Post frontal showers should diminish overnight Wednesday with further cooling.

24 Hour Quantitative Precipitation ending at 4 am			Snow Level/Freezing Level in feet					
Location	Wed	Thu					Easterly	
			Northwest	Northeast	Central	South	Flow in	
			Olympics	Cascades	Cascades	Cascades	Passes	
Hurricane Ridge	lt .25	.25						
Mt Baker Ski Area	.75	.75 - 1.00						
Washington Pass	.25	.25 - .50						
Stevens Pass	.25 - .50	.25 - .50						
Snoqualmie Pass	.50	.25 - .50						
Mission Ridge	.25	lt .25						
Crystal Mt	.50	.25 - .50						
Paradise	.50	.50						
White Pass	.25	.25						
Mt Hood Meadows	.50	.25 - .50						
Timberline	.50	.25 - .50						
<p>LT = less than; WE or Water equivalent is the liquid water equivalent of melted snow in hundredths of inches. As a rough approximation 1 inch of snow = about .10 inches WE, or 10 inches of snow = about 1 inch WE.</p>			<p>Day</p> <p>Tuesday Afternoon 5500' 5500' 5000' 6000' 6500' *</p> <p>Tuesday Night 4500' 4500' 4500' 5000' 5500' *</p> <p>Wednesday 3500' 4000' 4000' 4000' 4000'</p> <p>Wednesday Night 2500' 2000' 2000' 2500' 3000'</p> <p>Cascade Snow / Freezing Levels noted above refer to the north (approximately Mt Baker and Washington Pass), central (approximately Stevens to White Pass) and south (near Mt Hood). Freezing Level is when no precipitation is forecast.</p> <p>* Note that surface snow levels are common near the passes during easterly pass flow and may result in multiple snow / freezing levels.</p>					

USE AT YOUR OWN RISK

This Backcountry Avalanche Forecast is provided in conjunction with the US Forest Service, and is intended for personal and recreational purposes only. Safe backcountry travel requires preparation and planning, and this information may be used for planning purposes but does not provide all the information necessary for backcountry travel. Advanced avalanche education is strongly encouraged.

The user acknowledges that it is impossible to accurately predict natural events such as avalanches in every instance, and the accuracy or reliability of the data provided here is not guaranteed in any way. This forecast describes general avalanche conditions and local variations will always occur. This forecast expires 24 hours after the posted time unless noted otherwise.