



Northwest
Avalanche
Center

2014 Annual Report

NWAC Mission: The Northwest Avalanche Center (NWAC) is a collaborative effort between the US Forest Service Northwest Avalanche Center and the non-profit Friends of the Northwest Weather and Avalanche Center. The mission of NWAC is to save lives and reduce the impacts of avalanches on recreation, industry and transportation in the Cascade and Olympic Mountains of Washington and northern Oregon through mountain weather and avalanche forecasting, data collection and education.



A Message from the NWAC Director

Throughout the many years I have been a forecaster at the Northwest Avalanche Center, the changes to the operation have generally come in steady workable increments. In contrast, the winter of 2013-1014 presented itself with an abundance of new ideas and modifications, and as a result, may prove to be the year of a definite paradigm shift in the operations of NWAC. I feel this season has seen the significant fruits of a growing relationship with our non-profit partner, the Friends of NWAC. While this collaboration has been ongoing for years, the many facets of our operation are now being carried out under one unified umbrella, the Northwest Avalanche Center. NWAC is no longer merely a few forecasters writing mountain weather and avalanche forecasts, but now a more closely allied organization with professional observers in the field and a growing public outreach and education program.

With this partnership, our commitment and focus promises to meet the needs of, and provide the best services possible, to our long time cooperators, including federal, state, and private, as well as the recreating public. To meet these high standards, NWAC launched an entirely new web site this season with the goal of providing well thought out, simpler and more focused forecasts tailored to meet the needs of backcountry users at all levels of skill or experience. The framework of the new backcountry forecast was developed over the past several years after much thought and research by the dedicated team at the Colorado Avalanche Information Center. CAIC generously shared their findings and insights and offered invaluable support as NWAC implemented these changes in the Northwest, making for significant improvements to our product.

The second season of the Professional Observers program experienced significant improvements, as a team of six professionals provided detailed backcountry snow and avalanche ob-

servations throughout our forecast region on a daily basis. These backcountry observations, including timely photos and videos shared through our forecast products and social media, supplemented the invaluable observations already being provided by our long time avalanche professional partners with the WSDOT, Pacific Northwest ski areas, National Park Service and heli-ski and guiding services. The expanded observation network made for the most complete and accurate avalanche forecasts to date.

As we near the end of another productive season, we are already working on future improvements for the coming year, including the development of a mobile app, giving more tools to users to make access to forecasts and weather station data easier. Education efforts have steadily increased over the past years with more and more awareness courses being offered. An expanded “Going Deep” series for the more experienced user is scheduled for next season as well.

With the sharp growth in popularity of backcountry travel and winter recreation seen in recent years and expected to continue, the Northwest Avalanche Center is committed to serving the winter recreation community at the highest level as well as meeting the needs of our cooperating partners. A heartfelt thanks goes out to all those who contribute to make NWAC what it has become since its humble beginnings in 1976 and will become, hopefully, long into the future.

-Kenny Kramer, NWAC Director

A Message from the NWAC Non-Profit Director

What a year! While that comment doesn't exactly reflect the average winter we had, it does reflect the exceptional year we had on the non-profit side of NWAC...formerly known as the Friends of NWAC. We kicked off the winter with a major facelift, eliminating the "Friends of" entity from our public face and joining NWAC under the banner of a new logo which you have certainly seen if you are reading this report. The new, joint public face better represents the collaborative nature of our relationship at this point and eliminated confusion between the two organizations. Along with the new look, we also rolled out a completely new website and made some major improvements to the way that we disseminate the avalanche forecast, a change which we are confident enabled more people to better understand the avalanche hazard.

In addition to the website, we took a big step behind the scenes this winter and hired six professional observers to provide snowpack obser-

vations in areas where information is lacking. Hopefully you have seen some of the photos and videos they have produced, either via social media or included in the forecast. Judging by the number of views on our YouTube channel (over 35,000), the videos in particular have been a hit with our constituents!

All of these changes seem to have been well-received, as support from the community continued to grow this year. Our membership base grew 13% and we again hosted six fantastic events that brought the community together in support of NWAC and avalanche safety. We are truly grateful to all of the individuals, companies and organizations who have continued to support NWAC as we strive to become the best avalanche center in the country.

-Benj Wadsworth, NWAC Non-Profit Executive Director

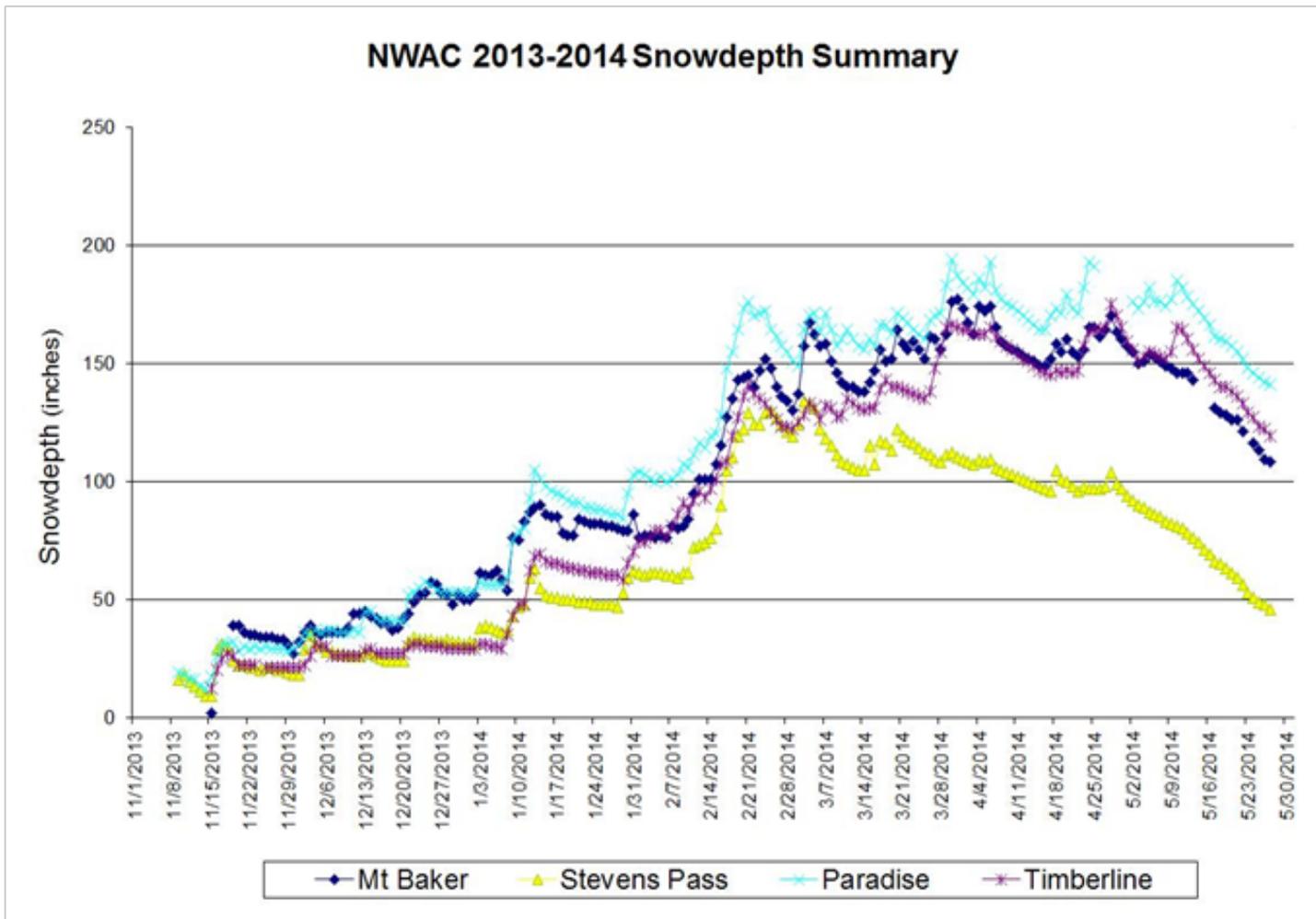


2013-14 Winter Weather Summary

The winter of 2013-14 can best be described as a late bloomer. It got off to a very slow start but wrapped up with a respectable snowpack that kept everyone playing in the mountains well into May. From an avalanche standpoint, the sporadic snowfall resulted in the development of a persistent weak layer that caused problems throughout the second half of the winter. Following is a monthly breakdown of the season.

December – There were only 1-4 feet of snowfall at NWAC sites near the crest in all of December and only some of the ski areas opened by Christmas. NWAC winter forecasting began later than usual on December 11.

January – A good storm cycle finally arrived for a 10-day period in the first half of January with 4-6 feet of snowfall at NWAC sites near the crest, but then the large ridge that afflicted so much of western Canada and the western US arrived and shut off the moisture in mid-January. Dry weather and warm temperatures dominated the area throughout the second half of January. The freezing level at Forks on the Washington coast averaged over 9000 feet during the second half of January. This caused an icy crust layer to form throughout the region. Several accidents and a death were seen due to uncontrolled falls on the crust.



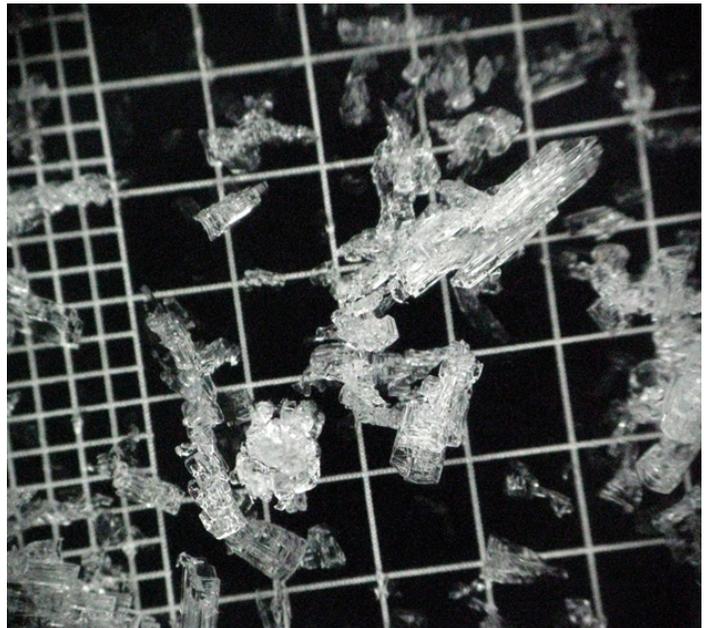
February – Early February got cold but remained quite dry except for some snowfall at Mt Hood. This weather caused hoar frost and faceted snow to develop near the January crust in the Washington Cascades. These layers became a persistent slab problem for much of the winter in the Northwest and throughout the western US and Canada. Total snow depths were about ½ of normal throughout the NWAC service area in early February.

Winter returned with a vengeance in mid-February. A storm cycle during the third week of February dropped about 8-12 feet of snow at NWAC sites near the crest. The first avalanche warning of the season was issued on February 11.

March - Three fairly distinct storm cycles occurred in early, mid and late March. Each cycle brought snowfall in the 2-4 foot range at NWAC sites near the crest. The first of these cycles caused avalanche warnings in early March. By the end of March total snow depths were back to normal.

April and May – Four more storm cycles rolled through from mid-April to early May. These cycles were remarkable for the amounts of water equivalent in the 2-8 inch range for each cycle at NWAC sites near the crest. Each cycle also deposited anywhere from a few to 50 inches of snowfall, with the heaviest dumps at Mt Hood. Even more snow fell at higher elevations.

Special Avalanche Statements and Warnings were issued for the late season snowfall and solar effects in late April. Special Avalanche Statements and Warnings were also issued for the first sustained hot weather of the spring at the end of April and in mid-May.



Accidents

The Northwest experienced seven avalanche fatalities this season, three in Washington and four in Oregon. Four of the victims were backcountry skiers, one was a snowmobiler, and two were climbers or snowshoers involved in cornice collapses that resulted in un-survivable falls. Six out of the seven deaths happened after the storm cycles became more frequent beginning in mid-February. A persistent slab problem developed by the middle of February throughout the Pacific Northwest, but this problem was likely a factor in only one of the accidents (that involving two fatalities in the Wallowa Mountains) and at least one reported close call with a deep persistent slab on Chair Peak near Snoqualmie Pass.

Granite Mountain, a repeat location of avalanche deaths in the Northwest, claimed another victim this year. Two backcountry skiers were descending the south side in late March and one triggered a slab (see picture) that swept him into the large west avalanche gully, picking up a tremendous amount of wet snow at lower elevations and leading to a very deep burial (probes were ineffective). Local search and rescue efforts were able to quickly recover the victim the next day with the help of a trained avalanche dog.

The season ended on a sad note, with the last special avalanche advisory for the spring in effect mid-May for a very warm and sunny stretch of days following heavy late season snowfall; one backcountry skier was caught while climbing the steep north side of Mt. Shuskan by a natural loose wet avalanche that knocked him down into un-survivable terrain.

At the time of this report, NPS officials do not know what killed the six climbers high on the Liberty Ridge route of Mt. Rainier on May, 28th; an avalanche is one of a few possible causes.



Weak layer on Mt Hood - photo Tom Curtis



Please see the NWAC accidents page for more details involving each incident. Full reports are posted online after information has been gathered regarding each accident.

UNITED STATES AVALANCHE FATALITIES by STATE
Winter 1985/1986 to 2013/2014

State																													29 Years			
	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08	08/09	09/10	10/11	11/12	12/13	13/14	Total	Avg	State
CO	4	11	5	4	4	6	9	12	1	9	7	1	6	6	8	4	6	6	3	5	4	5	5	4	8	7	7	11	8	176	6.1	CO
AK	0	6	2	0	1	1	2	7	2	6	8	4	3	12	5	4	11	4	3	1	4	0	4	3	5	5	6	1	1	111	3.8	AK
UT	5	2	0	0	1	0	5	3	1	5	2	6	2	5	2	6	5	1	4	8	4	4	3	4	4	2	5	4	3	96	3.3	UT
MT	2	1	0	0	1	0	1	1	6	3	3	1	7	2	2	7	9	4	0	3	4	6	3	6	6	2	6	0	6	92	3.2	MT
WA	2	0	4	0	0	0	2	0	0	1	0	5	2	3	1	3	0	1	7	2	2	1	9	2	1	4	4	2	3	61	2.1	WA
WY	2	0	0	0	0	0	2	1	1	1	3	2	1	2	0	7	2	7	1	0	2	3	4	2	4	2	4	3	2	58	2.0	WY
ID	0	1	0	0	0	0	0	2	0	0	3	3	3	0	2	0	1	3	4	3	4	1	2	3	7	1	0	0	2	45	1.6	ID
CA	2	0	0	0	1	0	2	1	0	2	0	0	1	1	0	2	1	1	1	3	1	0	4	3	0	2	2	2	0	32	1.1	CA
OR	0	0	0	1	0	0	0	1	2	0	0	0	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	4	12	0.4	OR
NH	0	0	0	0	0	1	0	0	0	0	3	0	0	0	1	0	0	2	0	0	0	0	1	0	0	0	0	1	0	9	0.3	NH
NV	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	4	0.1	NV
NY	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.1	NY
VT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0.0	VT
AZ	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	AZ
ND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0.0	ND
NM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.0	NM
TOTAL	17	21	11	6	8	8	24	29	13	28	30	22	26	32	22	33	35	30	23	27	25	20	36	28	36	25	34	24	29	702	24.2	TOTAL



Granite Mountain avalanche

Professional Observers Program

NWAC receives many invaluable observations from our cooperators and the rest of our community at large. The majority of these cooperator observations provide data points to the NWAC forecast team which are necessary in creating our avalanche product. This season, NWAC launched the Professional Observers Program. The goal of this program is to augment existing observations from our cooperators with observations taken from the backcountry. Six observers were hired for five zones: Olympic Mountains, Mt. Baker Area, East Side North, East Side South (including Hood), and the Seattle area. The program operated for the months of December thru April with each zone receiving an average of three observation per week (the Olympic zone was 50 percent time).

In addition to the highly detailed forms that were submitted to the forecasters, the observers interfaced with the public through social media. Observers submitted 44 videos to the NWAC YouTube channel with a seasonal view total of 35,300 - one video illustrating a very sensitive buried surface hoar layer was viewed over 13,400 times. This video, along with satellite-pushed Twitter posts from the field, augmented traditional forecasting communication means and, we hope, greatly contributed to a fatality-free February on this buried surface hoar layer.

Overall, this program was a huge success and we received many positive comments from the mountain community. Expect this program to expand in the coming seasons!

Weather Stations

With a lot of help from program cooperators, NWAC continued to maintain 46 weather stations from Mt Baker to Mt Hood in the Cascades and at Hurricane Ridge in the Olympic Mountains. The stations are located at ski areas and WADOT facilities, and on land managed by the National Park Service and the US Forest Service. The stations require ongoing maintenance and periodic repairs that are performed by NWAC forecasters and program cooperators. A computer is maintained at the NWAC office which downloads and formats the data and uploads the formatted data to our web site.

The NWAC weather stations performed quite well this season with minimal problems. Repairs were needed at the Brooks station on Stevens Pass, the Paradise station, the Hurricane Ridge station and the Alpental Summit station. In addition, we installed a new wind station at White Pass and a new mid-elevation station at Alpental.



Public Outreach

As mentioned above, this was a big year for NWAC on the internet as we launched a completely new website with a new look and adopted a new style of forecasting. Our previous website had become outdated, but more importantly, we realized that we could do a better job of reaching a broader range of users if we made some changes to the way we forecasted the avalanche hazard. The avalanche forecast on the new site uses a three tier system. The home page map of our avalanche forecast zones serves as the tier one information and targets basic users with limited or no understanding of avalanches. The map is color coded, depicting the greatest avalanche danger level expected within each region for the day, as well as the appropriate travel advice as defined in the North American Public Avalanche Danger Scale.

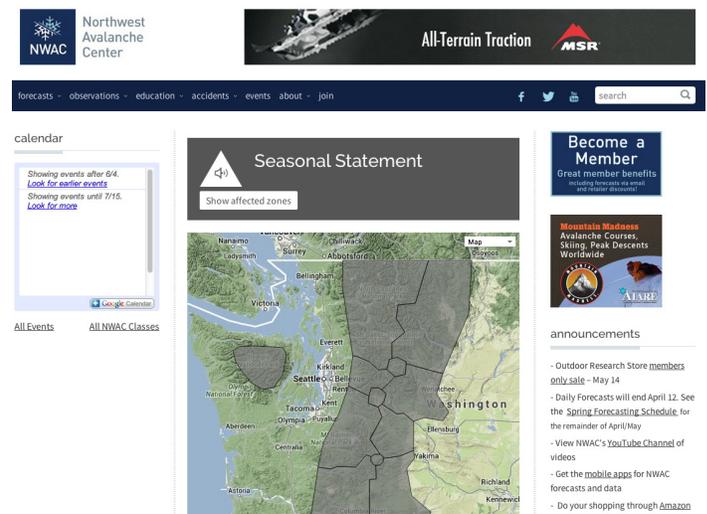
Tier two targets more advanced users and is comprised of both a Summary avalanche tab and a Forecast Discussion tab. The Summary page depicts the avalanche danger through a host of symbols, icons and short descriptors, including danger information based upon a three elevation band system as well as expected avalanche concerns, location, likelihood and size information. The Discussion section of the tier-two product includes more detailed descriptions of the current avalanche concerns, recent observations and avalanche activity and more detailed forecast information.

Lastly, tier three is comprised of the raw weather data and field observations that advanced users may incorporate into their decision making.

This three-tier system has been adopted by NWAC following the pioneering work done over the last several years by the Colorado Avalanche Information Center and is becoming the industry standard for public avalanche forecasting. It is proving to be very effective at reaching a broad spectrum of experience levels. Keep an eye out

for additional improvements as we refine the system next season.

In developing the website, we used “responsive design”, a development technique that makes the site functional on a variety of devices, including desktops, laptops, tablets, and mobile phones. The result is a website that is fully functional on all devices. This is a big improvement over our old “mobile site” in the sense that all of the information on the site is now available on mobile devices (as opposed to just the forecasts and weather data, which was the case in the past). On the downside, access to the forecasts and weather data is a bit more cumbersome on mobile phones than it should be. In an effort to solve this problem, we are working on a new mobile app and hope to launch it next fall.



Website Statistics

Not surprisingly, given the delay in the onset of winter until mid-February, website traffic declined this year compared to past years. However, while the numbers of visits and page views were down quite a bit, the number of unique visitors did not decline as much, a promising sign that our user base has continued to grow along with the growth in the number of people recreating in the mountains in the winter.

Page views:

2012/13 = 3,418,601 2013/14 = 2,582,805

Visits:

2012/13 = 1,719,607 2013/14 = 1,246,005

Unique visitors:

2012/13 = 468,714 2013/14 = 401,774

*2013/14 numbers are estimates. We had a glitch with our new website, and traffic data was not captured between December 11 and February 18. The numbers above were extrapolated using the data that we do have available.

Traditional and Social Media Outreach

An avalanche forecast is only helpful if the public knows about it. In addition to improving our website, we continued to spread the word about avalanche safety and the existence of the forecast through traditional and social media channels. Following are some of the highlights of our outreach efforts this season.

- We conducted 35 interviews with the local media this winter. The media has developed a growing interest in avalanche safety and is reaching out when the avalanche forecast is high, a very positive change from the days when avalanches were only of interest following a significant accident or fatality.
- We sent a total of 23 e-mails to our mailing list, with 15 of these targeting specific segments of our list. Our open rate across the board is a high 39%. Our click-through rate was an extremely high 19%.
- We published advertisements raising awareness about the NWAC website in five media publications including Coast Mountain Culture, Off Piste, the Mountaineers newsletter, Outdoors Northwest, and the Washington State Snowmobile Association Snoflyer.

- We posted 208 times on Facebook this season and now have 5368 friends (up from 3800 last year). Our posts resulted in 576,612 impressions.
- We got a lot more active with Twitter this season posting 467 total Tweets to 1323 followers. Twitter has proved to be a good platform for publicizing condition updates with our Professional Observers often Tweeting from the field.
- Our Professional Observers also made use of YouTube, posting 41 videos from the field that illustrate snowpack conditions. The videos were viewed over 35,000 times.
- We printed and distributed 6000 avalanche safety brochures and 5000 avalanche hotline cards.



Education

This has been another great season for the NWAC education program. We continued to target all users who frequent the wintertime backcountry: skiers, snowshoers, mountaineers and snowmobilers, as well as both adults and youth, and our education efforts continued to expand into new locations and user groups. This season, we conducted public awareness classes and lectures.

This season is the third year of our successful partnership with the American Institute of Avalanche Research and Education (AIARE) for our Avalanche Awareness program. The NWAC - AIARE Avalanche Awareness Program is offered as a public service to communities, schools and outdoor clubs - free of charge. The program length is roughly one and a half hours.

In addition to our basic awareness classes, we continued our Going Deep program, targeting experienced backcountry skiers and riders, and addressing some of the limitations of awareness classes and conventional avalanche education when it comes to decision making. The series of four classes was a huge success with over 310 participants, and we will be conducting a similar series next season. This season, we partnered with Second Ascent in Seattle which hosted all four classes.



NWAC by the NUMBERS

216 Professional observations submitted

41 Professional Observer videos on YouTube

35,331 YouTube video views

138 Avalanche Awareness classes

6266 Avalanche Awareness class participants

5368 Facebook friends

40 Companies advertising on the NWAC website

401,774 Unique visitors to the NWAC website

35 Interviews with the media

7 Avalanche fatalities in Washington and Oregon this winter

Fundraising

2013-14 was another successful year from a fundraising standpoint, as we exceeded our budget projections and raised over \$330,000, a 30% increase over 2012-13. We cannot emphasize enough the importance of the outdoor community and the private sector in enabling NWAC to grow and accomplish what it has in recent years. We are truly grateful to all of the individuals, companies and organizations who have shown their support for avalanche safety in the Northwest!

Following are some of the highlights of our fundraising efforts this year.

- We packed the Nectar Lounge for the 14th annual Snowbash season kick-off party and raised over \$10,000 dollars.



Snowbash 2013

A benefit for the Northwest Avalanche Center

November 6th, 7:00pm

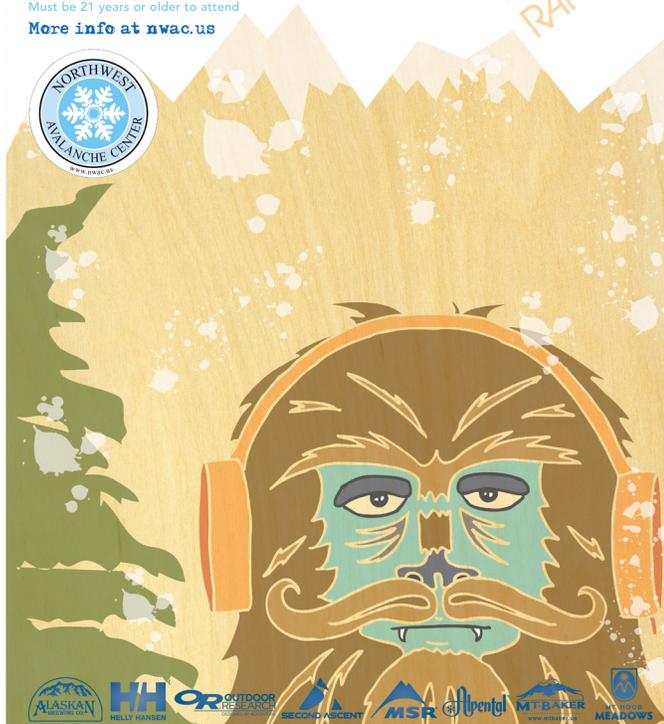
NECTAR Music by:
The Grant Farm
412 N 36th St Buzz Brump

Tickets: \$20 via brownpapertickets.com or
\$25 at the door

Must be 21 years or older to attend

More info at nwac.us

BEER!
BANDS!
RAFFLES!



- We held our third annual Snowbash Glacier and our second Portland and Leavenworth fundraisers, bringing together those communities in support of NWAC and avalanche safety.
- We hosted the 6th annual Snowball Dinner and Auction to a sell-out crowd of 350 who helped raise over \$90,000 for NWAC and avalanche awareness!
- We partnered with Outdoor Research, Subaru, the Summit at Snoqualmie, and Pro Guiding to put on the 7th annual Vertfest, with 137 racers and over 170 skiers and riders demoing gear, despite the lack of snow up until that point. When all was said and done, the event raised over \$20,000 to support NWAC!

- NWAC continues to benefit a great deal from events held by other entities on our behalf. This season, there were 20 of these events which raised over \$46,000! We are incredibly appreciative of the efforts put forth by all of the companies and organizations who hosted these events including Powderwhore, the North Bend Theater, Mountains to Sound Outfitters, Canadian Mountain Holidays, Pyramid Brewing, Mountain Hardwear, Sweetgrass Productions, Arc'teryx, Salomon, Second Ascent, American Alpine Institute, Crystal Mountain Hotels, S.A.F.E. A.S. Clinics, Summit at Snoqualmie, Outdoor Research, Crystal Mountain Resort, Tokul Creek Marketing / Dynafit, Mt Baker Split-fest, Wild Buffalo, Mountain Shop, and Mt Hood Meadows.



SNOWBALL
 The 6th annual celebration for the Northwest Avalanche Center
JANUARY 30, 2014 6:00-10:00
 SEATTLE DESIGN CENTER, 5701 6th Ave S.
 Dinner, live & silent auctions! Suggested dress: Semi-formal
 \$90 before January 17 | \$100 after
 All proceeds benefit NWAC.
 www.nwac.us/snowball



SchneeFest
 Wednesday DEC. 4th 5-10pm
 AT: **Munchen Haus**
Featuring:
 POWDERWHORE'S ELEVATION at 6pm
 Live Music with CHUMSTICK LIBERATION FRONT 7-9pm
 Second movie showing at 9pm
 movies music raffles beer!
 10% of all food and beer sales benefit the Northwest Avalanche Center, so come hungry and thirsty!

Hosted by:



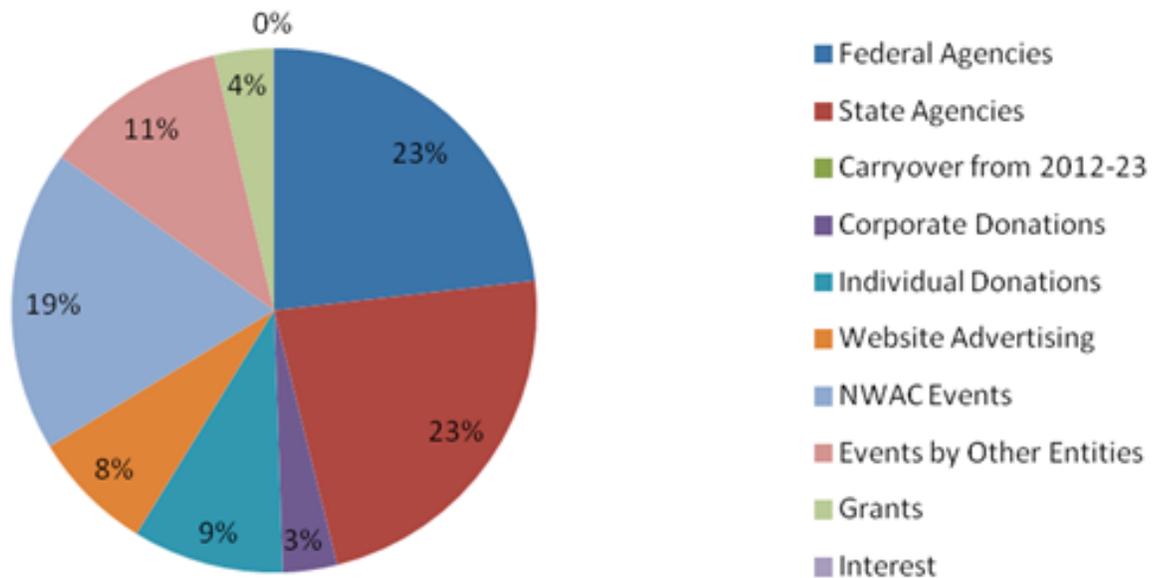
- We raised over \$46,000 from 30 companies sponsoring the NWAC website. These numbers continue to grow as more companies realize the benefits of reaching such a large, passionate audience of winter enthusiasts.
- We continued to grow our membership this year, thanks to a committed community of winter enthusiasts. Our membership increased from 695 members last year to 783 members this year, a 13% increase!
- We worked with over 125 companies and organizations who donated in-kind products and services for our many raffles and the Snowball auction!

2013-14 Statement of Activities

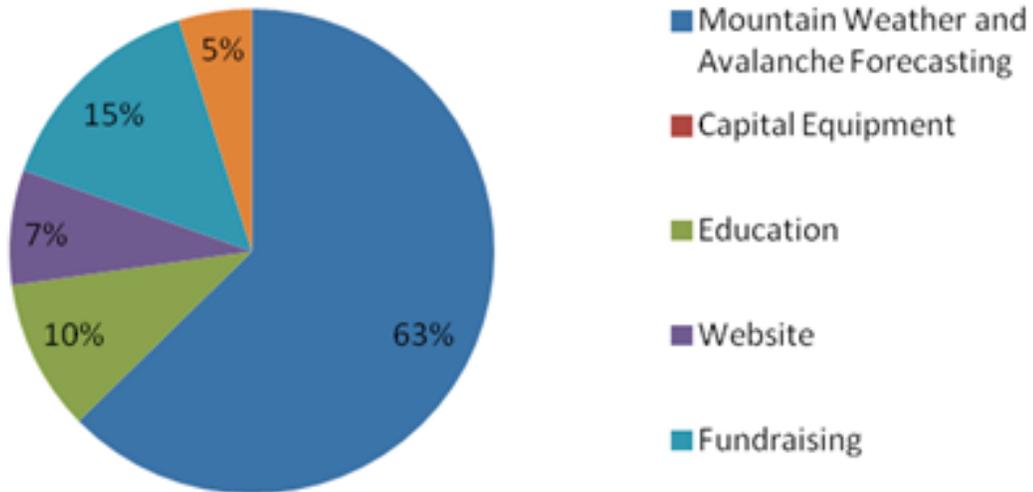


The following charts show the combined revenue and expenses for the USFS NWAC forecasters and the non-profit arm of NWAC.

NWAC Revenue (Total = \$588,822)



NWAC Expenses (Total = \$603,625)



Thank You

The work of NWAC would not be possible without the support of the many companies and individuals who contributed time and money last season. We are truly grateful.

NWAC Cooperators

NWAC would not exist without the vital support of the seven cooperating agencies and organizations that fund the majority of the program.

- US Forest Service
- Washington State Parks and Recreation Commission
- Washington State Department of Transportation
- National Oceanic and Atmospheric Administration – National Weather Service
- National Park Service
- Northwest Winter Sports Foundation
- Pacific Northwest Ski Areas Association

Company and Organization Donors

The work of NWAC would not be possible without the support of the many companies and organizations who contributed time and money last season. We are truly grateful.

Extreme Hazard (\$1,000+)

American Alpine Institute
Backcountry Access
Backcountry Adventure Guides
Blackrock
Cascade Designs
Clif Bar
Egan and Associates
Evo
Flylow
Helly Hansen
La Sportiva
Mammut
Microsoft Corporation
Mountain Madness
Mountain Shop
Mountaineers
Mt Baker Guides

Mt Baker Ski Area
Mt Baker Splitfest
Mt Hood Meadows
North Cascades Heli Skiing
North Cascades Mountain Guides
Northwest Mountain School
Oregon Ski Guides
Osprey
Outdoor Research
Powderwhore
Pro Guiding
Puget Sound Energy Foundation
Pyramid Brewing
Safe As Clinics
Salewa North America
Scarpa
Second Ascent

Suburu
Summit at Snoqualmie
Timberline Lodge
Voile

High Hazard (\$500-\$1,000)

Amer Sports Winter & Outdoor
Bluewater Distilling
Bushwhacker Club
Crystal Mountain Hotels
Deuter USA
International Snowmobile Manufacturers Association
Kraft Foods
Mountain Gear
Mountaineers Books
Nuun

Ridge Explorations
 Skimo Co
 Trew Gear
 Washington State Snowmobile Association
 Weston Snowboards
 White Pass

Considerable Hazard (\$200-\$500)

Bill & Melinda Gates Foundation
 CMH Heli Ski
 Earl B Gilmore Foundation
 Fidelity Charitable
 Frey Foundation

Icicle Brewing
 International Mountain Guides
 Mission Ridge
 Sweetgrass Productions
 Touchstone Corporation
 United Way of the Columbia-Willamette
 Ski Dazzle LLC
 Boeing

Moderate Hazard (\$100-\$200)

Adobe
 Converged Green
 Ellensburg X-Country Ski Club
 Footloose Communications
 H2O Guides

Norwil Electric
 Kennedy/Jenks Consultants
 Spokane Winter Knights Snowmobile Club
 Super Happy Wax
 Venture Snowboards
 Vertical Construction Group
 United Way of King County

Low Hazard (<\$100)

Anchor QEA
 City of Seattle
 Elatum Media
 Safe Harbor Marine

Individual Donors

The winter backcountry community is the heart and soul of NWAC. Without the generosity of the many passionate individuals listed below, our work would not be possible.

Extreme Hazard (\$1,000+)

Alexander Macdonald
 Amanda Camp
 Casey McGarity
 Erik Olson
 Fred Hammerquist
 John Commiskey & Samantha Beadel
 Jorie Wackerman
 Katie Tilston
 Larina & Robert Lee Davis
 Lucas Stankiewicz
 Mark Callaghan
 Murray Kahn & Onie Greiling
 Pam Reynolds
 Rebecca Norlander
 Sanders Chai
 Sue & Roger Bialous
 Tracey McKennon

High Hazard (\$500-\$1,000)

Aaron & Andrea Ostrovsky
 Adam Hitch
 Alex Ramirez
 Alexander Taranovski
 Amanda Howes
 Andrew and Erin Richardson
 Barrett Sigmund
 Bart Hutchinson
 Bartlomiej Knapp
 Bjorn Ballien
 Calvin Hall
 Carl Albrecht
 Chris Birkeland
 Christian & Erin Folk
 Colby Brinnon
 Dani Harder
 Daniel & Jennifer Dole
 David Combs
 Garrett Grove
 Gary Kuehn
 Gavin Woody

Georg Klein
 George Whyel
 Gordon Smith
 Gregory Allen
 Henry Brown
 Hubert Eichner
 Jason Dennett
 Jesse Bommarito
 Joel Spiegel
 John Connor
 Jordan Crump
 Jorrit Van der Meulen
 Justin Davis & Irena Netik
 Kathy & Chris Robertson
 Kim & Mark Day
 Kimberly Freeman
 Kirk Schumacher
 Kristen Jarvis
 Leigh Callaghan
 Loren Schwartz
 Lowell Skoog
 Mark Kroese
 Mark Watterson

Melissa Ahlers
Michael Taylor
Nick Whitman
Paul Werner
Reid Farris
Robert & Jennifer Stephenson
Ryan Crane
Sabrina Rinderle
Susan Ashlock
Suze Woolf
Todd Lee

Considerable Hazard (\$200-\$500)

Aaron Haran
Adam Brandt
Alexandre Laudon
Alexis Alloway
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Dennis D'Amico
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Mt Baker Area



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Jeff Ward
Central-North Cascades
East



Tom Curtis
Central-South Cascades
East & Mt. Hood



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Olympic Mountains -
Half Time



Katy Reid
Olympic Mountains -
Half Time

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NWAC would not be able to operate without the assistance of a great group of volunteers. From helping to organize Snowball to gate keeping at Vertfest to selling raffle tickets at Snowbash, NWAC volunteers kept us going with almost 180 hours of volunteer time. Thank you all!

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