



Snohomish County Fire Chiefs Association

"Progressive Fire Protection Through Cooperation"

Established 1970

General Membership

September 8, 2025

11:30 am

Officers

President

Chief Dave Kraski

Vice-President

Chief Shaughn Maxwell

Secretary/Treasurer

Chief Jim Haverfield

Immediate Past

Thad Hovis

Directors

Large Agencies

Vacant

Medium Agencies

Chief Eric Andrews

Small Agencies

Chief Keith Strotz

Liaisons

Legislative

Chief Michael McConnell

Fire Commissioners

Chief Johnson

Training/Safety Officers

Chief Brett Fetcho

Special Operations

Chief Dave Ruddell

EMS Council

Chief Joe Hughes

Fire Prevention

Shawneri Guzman

Washington Fire Chiefs

Chief Michael McConnell

Policy/Procedure

Committee Chair

Chief Eric Andrews

SNO911 Fire Tac

Chief Eric Andrews

Lunch Sponsor – [Stryker](#) – Richard Stefan, Account manager Northwest Washington

Call Meeting to Order

Additions to Agenda

Approval of Consent Agenda

- June 2, 2025, Meeting Minutes

Treasurer's Report

FEMA Discussion with Representative from Executive Somers Office - tentative

Old Business:

- Joint Operation Group – Deputy Chief Chalfant
- FIFA – Chief DeMarco
- ODA Website – Deputy Chief Crandall
- Hazmat – Captain Willis
- Nurse Navigator – Deputy Chief Hughes

New Business:

- Welcome Chief Park
- Update to ESF4 & ESF10 annexes – Dara Salmon – Attachment A **tentative**
- Consortium Advisory Board ILA Update – Chief Eastman
- Agency FRPs – Changes and Implications – Chief DeMarco
- FTA Class 2025-2 – Chief Kraski
- Levy Outcomes (Sno4, Marysville, North County)
- Representation equity – Chief Kraski
- Filling of Large Agency Representative – fill in January 2026?

- iOS Functionality to ESO – Chief Johnson – *Attachment B*
- NERIS-ESO Training Committee – if you have a member who should be on this committee to help develop training for the upcoming cutover to NERIS and the changes ESO will have, please let Theresa know as soon as possible.
- CWPP – Amy Lucas – *Attachment C*

Agency Updates:

DEM - Lucia Schmitt – Attachment D

Sno911 – Terry Peterson

Fire Commissioners – Chief Johnson

Fire Resources Coordinator – Chief Hots

Fire Marshal –

Liaison Updates:

Fire TAC – Chief Andrews

SnoCo MPD – Ryan Keay

SCEMS Director – Scott Dorsey

Policy/Procedure Review Committee – Chief Andrews

Fire Prevention – Shawneri Guzman

Training Consortium – Battalion Chief Fetcho

Training Officers/Safety Officers – Deputy Chief Fetcho

The Snohomish County Training Officers Association is offering this two day workshop as the Fall Tactical training thanks to Camano Island graciously hosting and organizing this event.

Officer Workshops

Sept. 26, 8 a.m. to noon: The *Company/Acting Officer workshop* is a four-hour guided discussion in leadership and organizational influence and will include development of organizational needs assessments.

The Functional Fire Company Sept. 27, 9 a.m. to 5 p.m. This practical workshop delves into the critical components of building and maintaining an effective fire service team. Leadership, teamwork, and operational efficiency are critical to creating a fire company that can respond to emergencies with precision and confidence. This is an excellent opportunity for aspiring, newly promoted, or veteran firefighters and officers to refine and master their leadership styles through soft skills and a teamwork mindset.

Where: Camano Chapel 867 SW Camano Drive, Camano Is.

When: Sept. 26: 8 a.m. - noon & 1 - 5 p.m.

Sept. 27: 9 a.m. to 5 p.m.

Chief Scott Thompson entered the fire service in Texas in 1981. He has led and coached fire officers and firefighters for the past 25 years. He has taught at the Texas A&M University Fire School since 1996, and been a hands-on instructor,

workshop, and classroom presenter at the Fire Department Instructors Conference (FDIC) since 2002.

Snohomish County Health & Safety Officers:

The Snohomish County Health & Safety Officers have organized the second annual health screening event, reaffirming our commitment to firefighter family wellness and early detection. This year's program featured a comprehensive suite of preventive services, including ultrasound screenings provided by UDS, a non-invasive imaging test that helps detect potential issues with major organs before symptoms appear; the Galleri multi-cancer blood test, which can identify signals from over 50 types of cancer at an early stage; and skin checks conducted by a local dermatologist. The SCHSO is offering this opportunity to all employees, spouses, and retirees. These proactive measures underscore our dedication to safeguarding the long-term health of our personnel while fostering a culture of safety and well-being across the county fire service. There is availability for the dates of September 8-12 and 15-19.

Special Operations – Battalion Chief Ruddell

Tech Rescue

County training Sept 4-6, 2025. Heavy extrication with Dicks Towing and Blue Collar Training Network.

Hazmat

Training on going for a new gas/vapor sensor being placed in service.

On going training and review of Lithium Ion batteries. Making sure policy and practices are matching the needs for safety and mitigation.

Next SOPB meeting Sept 16 1100 at station 66.

Washington Fire Chiefs – Deputy Chief McConnell

Legislative – Deputy Chief McConnell

Announcements

Good of the Order

Adjourn

Description	January	February	March	April	May	June	July	August	September	October	November	December
Beginning Balance	\$31,649.71	\$ 31,425.94	\$ 31,205.39	\$ 31,205.39	\$ 32,374.45	\$ 38,413.76	\$ 38,413.76	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15
Revenues		\$ -	\$ -	\$ 1,300.00	\$ 6,357.88	\$ -	\$ 8,769.29	\$ -	\$ -	\$ -	\$ -	\$ -
Expenditures	\$ 223.77	\$ 220.55	\$ -	\$ 130.94	\$ 318.57	\$ -	\$ 718.90	\$ -				
Ending Balance	\$ 31,425.94	\$ 31,205.39	\$ 31,205.39	\$ 32,374.45	\$ 38,413.76	\$ 38,413.76	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15	\$ 46,464.15

CD's \$14,576.66 \$14,576.66 \$14,576.66 \$14,576.66 \$10,918.78 \$10,918.78 \$3,648.79 \$3,648.79

TOTAL ASSETS \$ 46,002.60 \$ 45,782.05 \$ 45,782.05 \$ 46,951.11 \$ 49,332.54 \$ 49,332.54 \$ 50,112.94 \$ 50,112.94

January	February	March	April	May	June	July	August	September	October	November	December
Revenue	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue	Revenue
				CD*		CD*					
				\$3,657.88		\$7,269.29					
			2025 Dues*	2025 Dues*		2025 Dues*					
			\$1,300.00	\$2,700.00		\$1,500.00					
January	February	March	April	May	June	July	August	September	October	November	December
Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense	Expense
SCFCA Lunch	SCFCA Lunch		SCFCA Lunch	SCFCA Lunch		Northwest					
\$223.77	\$220.55		\$130.94	\$183.57		Business					
				SOS Bus. Lic.		Solutions					
				\$135.00		\$718.90					



Snohomish County Chiefs' Association
General Membership
11:30 a.m.
June 2, 2025

PRESENT:

Dave Kraski
Shaughn Maxwell
Jim Haverfield

Kevin O'Brien
Eric Andrews
Keith Strotz

President North County Fire (absent)
Vice President South County Fire (absent)
Secretary/Treasurer Snohomish County FPD 17
Immediate Past President
Large Agency Director Snohomish Regional Fire (absent)
Medium Agency Director Snohomish County FPD 19
Small Agency Director Snohomish County FPD 19

Bill Dane	FD17
Blake Engnes	Mukilteo Fire
Chad Crandall	FD17
Chad Schmidt	FD21
Travis Hots	FD22
Colby Titland	SRFR
Dave DeMarco	Everett Fire
Dave Ruddell	South County Fire
David Wells	South County Fire
Drew Bono	FD22
Ernie Walters	Sky Valley Fire
Emmy Duros	FD5
Glen Albright	Mukilteo Fire
Greg Osborne	FD4
Jarrold Spence	FD5
Joel Johnson	FD24
John Chalfant	South County Fire
Lucia Schmit	SnoCo DEM
Michael McConnell	SRFR
Mike Calvert	Everett Fire
Mike Messer	SRFR
Ned Vanderpol	Marysville Fire
Jennett Nielson	Marysville Fire
Ryan Keay	SCEMSA/Sno County MPD
Ryan Lundquist	SRFR
Scott Dorsey	SCEMSA
Seth Henderson	SnoCo FM
Seth Johnson	FD5

- A. Call to Order** Meeting called to order at **1130** hours.
- B. Adopt / Adjust Agenda** No changes or additions to the agenda.
- C. Approval of Consent Agenda**

Discussion: No discussion.

Action: Motion by Chief Johnson to approve the consent agenda of the May 5, 2025, meeting. **Seconded** by Chief Vander Pol **Approved** unanimously.

D. Treasurer's Report

Discussion: See attached.

E. Old Business

Nurse Navigator Discussion – See attachment. No action at this time. Will re-evaluate in September. **Amended and approved on June 2, 2025 meeting. A motion was made by Drew Bono and seconded by Joel Johnson and approved unanimously. The approval includes a caveat: we will evaluate the program's progress in addressing the identified issues. A decision on whether to continue the program into 2026 and beyond will be made later this year. Sno911 will include funding for the program in the 2026 budget.

ODA Update – Chad Crandall

Chief Crandall presented to the group and requested for a response in September. The training officers endorsed the ODA at the last meeting. The committee will finalize the details and have them ready for the September meeting. The general consensus was that the Training Officers Association should host the class. They will return with a proposal.

SCEMSA Update – Scott Dorsey

They had their first board meeting on April 13. It went well. Director Dorsey reminded everyone to please pay your invoice that was sent out.

JOG Update – Chief Chalfant

They had their kickoff meeting on April 16, 2025. They discussed regional traffic issues, mitigation of large-scale incidents and they will now be expanding in to our area. They went over high-level information of upcoming construction projects. There will be a special log in so they can check on incidents in real time in the Seattle area only at this time. They will be expanding it to Snohomish County sometime in the future. Future meetings will be now be held at 3pm to avoid conflicts with Fire Tac.

F. New Business

SCTO Request Fall Leadership – Chief Crandall

A motion to pay up to \$3000 to the SCTO for the Fall Leadership class was made by Chief Chalfant. It was seconded by Chief Titland.

Thank you, Lori Burke – The SCFCA recognizes Lori Burke for her 27 years of service and thank her for all she has done for Snohomish County.

G. Agency Updates:

DEM - Lucia Schmitt – Introduced Deputy Director Dara Salmon. DEM is working on updating their 5-year plan. Once it is complete, they will bring it to the SCFCA for discussion. She let everyone know they can always email DEM for updates.

Sno911 – Terry Peterson-

Reminded everyone about the 2 open houses on the 13th and the 20th at the new dispatch center. He also let everyone know that there will be a ribbon cutting immediately following the board meeting on the 15th at about 9:30 am. Following that, the facility will be open for tours.

The radio system cutover is tomorrow at 0800. Make sure your crews are following the guidelines on the sheet they sent out. Reminded everyone that they will need to switch to E bank to get your traffic and make sure all the radios are updated.

Fire Commissioners – Seth Johnson

They met last week at FD21 and received an update from DNR.

Fire Resources Coordinator – Travis Hots

DNR had their 2nd annual open house and went over operations and resources available in our state.

Fire Marshal – Lori Burke

She will be retiring on May 30th. They have had the first round of interviews for the Assistant Fire Marshal's Office. They have not selected a candidate yet, but they will make an announcement as soon as the successful candidate accepts the position when offered. She also reminded everyone who has social media accounts to not post any pictures of arson fires still under investigation.

Liaison Updates:

Fire TAC – Eric Andrews – Main discussion was about the radios.

SnoCo MPD – Ryan Keay SCEMSA Director – Scott Dorsey

Dr Keay advised the they have had 80 QA cases to date. On June 11th there will be an symposium followed by a CAM class next fall. They will be starting up the Protocol committee again. Current stat work is on scope of practice from the state. They request any documentation be sent to the MSA/MSO group of what you would like a chart to look like. ABCDE-ACT to help with load leveling and decrease wall times.

HELMS is a recent release, not glorious. 1865 providers, but not seeing the data as easily. They have to rework the process.

Policy/Procedure Review Committee – Eric Andrews no update

Fire Prevention – Shawneri Guzman – Congratulations to Shawneri for being the NFPA National Educator of the Year! Way to go!

Training Officers/Safety Officers – Brett Fetcho

May 15th at the PUD Building, will be the Academy graduation.

Testing for the PE standard is better applied at the hiring process, before or at the very beginning of the academy.

FTA training piece, set up anchor they could utilize for fall protection

Special Operations – Dave Ruddell –

Special Operations Policy Board
May 2025

Training

HazMat IC April 28, 2025. Second session will be in October.

Ongoing HazMat team training

2nd Technical Rescue Academy underway. Academy ends May 9.

SRFR, Everett, Sno4, Marysville and SCF have techs in training.

*Thank you for the agency support.

8 members attending Structural Collapse training with the WA-Task Force beginning in June 2025.

Operations

More training on Alternative fuels and specifically EV batteries for all crews.

Members attended advanced training on lithium-ion battery emergencies, and they were happy to report that Snohomish County is above the curve with our training and Operational capabilities. The committee is watching this closely and will make recommendations as they learn more.

Multiple Tech Rescue responses within the County in the last 2 months. Happy to report both Operations and Technician level responses are running safe and effective.

Budget

2026 budget preparation is underway.

Expect 2026 budget approval at the May 20 SOPB meeting.

Questions or concerns please give me a call.

Washington Fire Chiefs – Michael McConnell

Strategic Planning

The WFC gathered the WFC Board, Section Chairs and Key Stakeholders in a work session, facilitated by WHA on April 29-30th. This group reviewed the previous strategic plan and worked to put into place a new plan for the next 3 years. Since the previous plan was adopted in 2020, significant changes have occurred in the fire service, technology, and there are new opportunities available to the association. Portions of the updated plan will be introduced at the annual conference.

2025 Washington Fire Chiefs Conference, Kennewick, May 19-22

PreHospital Emergency Airway Course, Kennewick, May 21-22

2025 WA Fire Administrative Support Conference, Wenatchee, Sept 29-Oct 1, 2025

2025 WA Fire Mechanics Conference, September 15-19, 2025

Legislative – Michael McConnell

Washington Legislative Update The WFC made great progress on the 2025 Legislative Priorities with the following priority bills seeing success:

- HB1156, Volunteer Firefighter Deferred Compensation Program
- SHB 1271, Prepositioning of mobilization resources
- SHB 1539, Wildfire Protection
- EHB 1628. Fire Service Policy Board
- ESHB 2049, Property tax growth limit/ K-12 Funding
- SSB 5419, Report of Fire Loss
- ESSB 5801, Transportation Resources

We will be discussing the legislative session in depth at the Conference, at the Legislative Breakfast, Wednesday, May 21st at 7am.

H. Announcements/Good of the Order

Chief Eastman has questions about the upcoming Soccer World Cup since we are a designated fan zone. Chief DeMarco advised that the planning group is starting to stand up regionally as we speak and there is a lot of discussion occurring. He will keep everyone updated.

Les with Western Fire Chiefs advised that grant money is flowing again. There have been significant cuts to FEMA and that the lithium ion legislation has passed the house and is now at the senate.

- I. **Adjournment Motion** to adjourn proposed by Chief Eastman seconded by Chief Vander Pol and approved unanimously. The meeting adjourned at **1245 hours**.

Minutes prepared and submitted by:
Theresa Ramey/North County RFA

Next Meeting: June 2, 2025

Attachments:
Snohomish County Nurse Navigation Program Executive Update
SCFCA Financial Statement



Snohomish County Fire Chiefs Association Attachment Item Summary

Attachment
B

SCFCA MEETING DATE:	
September 8, 2025	
SUBJECT:	
Adding iOS Functionality to ESO Proposal	
ATTACHMENTS:	
ESO EHR iOS Proposal	
DIVISION OF ORIGIN:	
Fire Chief Joel Johnson – FD24	
EXPENDITURES REQUESTED:	-
BUDGET CATEGORY:	-
BUDGETED AMOUNT:	-
LEGAL REVIEW:	
DESCRIPTION:	
In summation, there have been several departments that have expressed interest in adding the ability to utilize the ESO iOS Application on devices like iPhones and iPads. The attached document outlines the information that will be required to add this functionality.	
HISTORY:	
ALTERNATIVES:	
RECOMMENDATION:	

Executive Summary – iOS Functionality for ESO HER

At the Snohomish County EMS Agency, we are committed to supporting our providers with tools that enhance care delivery and system efficiency. In recent months, I received inquiries from numerous agencies—both large and small—regarding ESO’s new iOS offering for electronic health records. Recognizing the potential impact, I initiated an online survey to gauge regional interest. The results were clear: there is widespread enthusiasm for iOS functionality, especially when paired with a county-wide pricing model that ensures equitable access.

My understanding of our original agreement with ESO, negotiated in 2009, was central to this effort. That contract secured a rate of \$1.25 per chart in perpetuity—a rare and enduring benefit that continues to serve our system well. My goal throughout this process was to ensure that the integrity of those terms would not be compromised by the addition of iOS functionality.

After collaborative discussions, ESO agreed to a modest 10% increase, bringing our new rate to \$1.38 per chart. This adjustment preserves our foundational agreement while enabling agencies to adopt mobile-first documentation tools that align with modern field operations.

This initiative is not part of SCEMSA’s routine operations. After laying the groundwork, I transitioned leadership of the project to Chief Johnson, who worked directly with ESO to develop the proposal now before you. While SCEMSA does not engage in agency-level operations, we were pleased to provide consultation support that enabled Chief Johnson to bring this forward.

This proposal reflects our shared commitment to strategic system development, provider support, and continuous improvement. It is a step toward building an EMS documentation system that meets today’s needs—and anticipates tomorrow’s challenges.

Best,

Scott Dorsey

Executive Director, Snohomish County EMS Agency

iOS Functionality for ESO Electronic Health Records (EHR) Proposal

09/01/2025

Purpose: This proposal seeks to add the ability for all Snohomish County Fire and EMS Agencies to utilize the iOS EHR Application in addition to the current Windows EHR Application and ESO Online EHR.

Background: Currently, ESO's EHR platform provides patient care documentation via an installed Windows Application. Further, ESO's EHR Program is also available via their website (with limited capability). However, many field personnel rely heavily on iOS devices such as iPads and iPhones for operational use. The absence of native iOS compatibility limits flexibility, impacts workflow efficiency, and creates challenges for agencies that are increasingly adopting Apple devices as their standard hardware.

Cost: Snohomish County Agencies pay \$1.25 per chart. The proposed price to add iOS ESO would increase to \$1.38 per chart. A roughly 10% increase.

2024 EMS Call Volume (For Reference)			
Agency	EMS Calls	Current \$1.25	Proposed \$1.38
Everett Fire Department	20,935	\$26,168.75	\$28,890.30
Marysville Fire District	12,298	\$15,372.50	\$1,6971.24
Mukilteo Fire	1,789	\$2,236.25	\$2,468.82
North County Regional Fire Authority	7,466	\$9,332.50	\$10,303.08
Sky Valley Fire	693	\$866.25	\$9,56.34
Snohomish County Airport Fire Department	136	\$170.00	\$187.68
Snohomish County Fire District #4	2,864	\$3,580.00	\$3,952.32
Snohomish County Fire District #5	908	\$1,135.00	\$1,253.04
Snohomish County Fire District #15	1,296	\$1,620.00	\$1,788.48
Snohomish County Fire District #16	171	\$213.75	\$235.98
Snohomish County Fire District #17	1,618	\$2,022.50	\$2,232.84
Snohomish County Fire District #19	333	\$416.25	\$459.54
Snohomish County Fire District #21	687	\$858.75	\$948.06
Snohomish County Fire District #22	378	\$472.50	\$521.64
Snohomish County Fire District #24	442	\$552.50	\$609.96
Snohomish County Fire District #25	73	\$91.25	\$100.74
Snohomish County Fire District #27	12	\$15.00	\$16.56
Snohomish Regional Fire and Rescue	9,999	\$12,498.75	\$13,798.62
South Snohomish County Fire and Rescue	30,005	\$37,506.25	\$41,406.9
Totals	92,103	\$115,128.75	\$127,102.14
Total Estimated Difference			\$11,973.39

Other Information: With iOS functionality, agencies will be able to utilize existing iOS Devices (i.e. iPhone, iPad). There would also be cost advantages in the purchase of new iOS hardware compared to Windows-based hardware. For example, a new iPhone can often come with little to no cost due to mobile provider incentives. A new iPad costs between \$300.00-\$700.00, while an iPad Pro can reach \$1300.00. However, a new Panasonic ToughBook/Tablet or Getac Rugged Laptop/Tablet costs \$3,000.00-\$5,000.00. This demonstrates a significant potential cost savings on hardware.

Recommendation: Adding iOS capability for EHRs would significantly expand accessibility, allowing crews to leverage mobile, lightweight devices that integrate seamlessly with existing technology. This enhancement would improve speed and accuracy of patient documentation in the field, enable real-time syncing with secure cloud servers, and reduce dependency on more expensive and less portable PC hardware. By aligning with the growing trend toward mobile-first solutions, iOS integration will allow end-users the ability to better complete proper patient documentation.

The proposal includes unlimited downloads for any Apple iOS devices, secure cloud storage, and added features like the scanning of medications. The proposal does not take away any current features or applications.

Motion: Motion to approve SNO911 to adopt the attached First Amendment to Subscription Agreement to add iOS functionality.

FIRST AMENDMENT TO SUBSCRIPTION AGREEMENT

This First Amendment to the Subscription Agreement (hereinafter, this “**Amendment**”) is made and entered into as of September XX, 2025 (the “**Effective Date**”) by and between SNOBAC, a Washington non-profit corporation located at 1121 S.E. Everett Mall Everett, WA 98208 (hereinafter the “**Customer**”) and ESO Solutions, Inc., a Texas corporation having its principal place of business at 2803 Manor Road Austin, TX 78722, including its controlled subsidiaries, (collectively, “**ESO**”). Each the Customer and ESO are individually a “**Party**” and collectively, the “**Parties.**”

WHEREAS, the Customer and ESO entered into that certain Subscription Agreement (hereinafter, the “**Agreement**”) executed on or about March 3, 2010;

WHEREAS, the Parties desire to update the pricing in **EXHIBIT A**.

NOW, THEREFORE, the Customer and ESO agree to amend the Agreement as follows:

1. The above recitals are hereby incorporated into this Amendment as if fully set forth herein.
2. The subscription Fees for ePCR Pro listed in section 1 of Exhibit A shall increase from \$1.25 per incident to \$1.38 per incident to include iOS functionality as of the Effective Date of this Amendment.
3. The Parties agree where the terms of the Agreement conflict with the terms of this Amendment, the terms of this Amendment, including the changes to Exhibit A, shall govern. No other terms and conditions or pricing in the Agreement shall be amended unless specifically addressed in this Amendment. Taken together the Amendment and the Agreement (including applicable Exhibits) constitute the entire agreement between the parties regarding the Services purchased hereunder.



Snohomish County Fire Chiefs Association Attachment Item Summary

Attachment

C

SCFCA MEETING DATE:	
September 8, 2025	
SUBJECT:	
CWPP	
ATTACHMENTS:	
SC_CWPP_BasePlan_2025, CWPP_State_Review_Tool_New_PlanFinal_SC_Crosswalk	
DIVISION OF ORIGIN:	
Amy Lucas – Resilience and Mitigation Program Manager SnoCo DEM	
EXPENDITURES REQUESTED:	-
BUDGET CATEGORY:	-
BUDGETED AMOUNT:	-
LEGAL REVIEW:	
DESCRIPTION:	
Discussion about the finalized CWPP	
HISTORY:	
ALTERNATIVES:	
RECOMMENDATION:	

Snohomish County

Community Wildfire Protection Plan

2025



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Approval of the Snohomish County Community Wildfire Protection Plan

The Snohomish County Wildfire Protection Plan satisfies the three requirements of the Healthy Forests Restoration Act of 2003: 1) Collaboration; 2) Prioritized Fuel Reduction and; 3) Treatment of Structure Ignitability. The CWPP was a coordination effort with 50 planning partners in the public, private and nonprofit sectors to reduce the risk of wildfire and increase the resilience of local communities to wildfires throughout Snohomish County. This document serves as a planning tool to guide residents, fire agencies, and communities to identify and implement strategies to prioritize fuel treatments and reduce structure ignitability. This plan is approved by the Snohomish County Executive, the Snohomish County Council, the Snohomish County Fire Chiefs Association and the Washington State Department of Natural Resources.

George Geissler, State Forester
Washington State Department of Natural Resources

Date

Guy Gifford, Assistant Division Manager
Washington State Department of Natural Resources

Date

Dave Somers
Snohomish County Executive

Date

Nate Nehring, Chair
Snohomish County Council

Date

Dave Kraski, President
Snohomish County Fire Chiefs Association

Date

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ACKNOWLEDGEMENTS

Snohomish County Land Acknowledgement

On behalf of the Snohomish County Government, we honor descendants of all of the tribes and bands that have inhabited this land since time immemorial. We stand with these tribes, whose ancestors, by signing the Treaty of Point Elliott in Mukilteo in 1855, enabled our county, cities, and other communities to exist here. We honor these tribes as they continue to practice their culture and lifeways; including fishing, hunting and gathering and other cultural traditions.

With this tribal acknowledgment, we open our time together by honoring the ancestors whose feet first knew these lands, and whose paddles still know the waters of what we now call Snohomish County.

Snohomish County Planning Partner Acknowledgement

The development of this plan would not have been possible without the dedication and commitment to this process by the Snohomish County Community Wildfire Protection Plan Planning Committee, Advisory Committee, other Planning Partners, and the people of Snohomish County. The dedication of time to this process is greatly appreciated. Also, all who participated in the public process are commended for their participation in this planning effort.

Community Wildfire Protection Plan Sponsors

Snohomish County Executive Dave Somers

Snohomish County Department of Emergency Management – Lucia Schmit, Director

Snohomish County Council

District 1 – Nate Nehring

District 2 – Megan Dunn

District 3 – Strom Peterson

District 4 – Jared Mead

District 5 – Sam Low

Prepared By

Snohomish County Department of Emergency Management

Amy Lucas, Resilience and Mitigation Program Manager

Rebecca Carpenter, Resilience and Mitigation Analyst

Jayne Haselow, Resilience and Mitigation Coordinator

Rob Thurston, Enhanced Emergency Services Communication System Manager

Drew Schwitters, Principal GIS Analyst

Scott North, Public Information Officer

Sammie Keller, Public Outreach Coordinator

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Executive Summary

Snohomish County is a place of trees.

Go outdoors and gaze in any direction. Odds are you'll encounter the bristling silhouettes of Douglas-fir, western hemlock, and western redcedar. Nothing defines the landscape here quite like the green of growing trees. Even in the busiest corners of Snohomish County, people are never far from places where the sky is crossed by overlapping limbs casting the shadows of the conifer cathedral.

Trees are a big reason Snohomish County has become the third most-populous place in Washington state. Their roots hold hillsides and history. They stitch together watersheds and wildlife habitat. Trees are key to the economy, providing timber for homes, revenue that supports schools, and wild spaces for tourism.

An estimated 840,000 people now live in Snohomish County. Roughly 130,000 – more than 15% – make their homes in the wildland urban interface (WUI), the places where houses, farms and businesses stand amid or adjacent to large tracts of trees. Of the nearly 5,000 residential building permits issued by the County since 2020, one in every five has been for homes in these locations.

That growth has been occurring at the same time that warmer, drier conditions are raising concerns about wildfire in Snohomish County forestlands. Already this century, the county has seen nine drought declarations. Major wildfires have occurred, particularly since 2020. Autumn 2022 saw multiple big blazes, notably the Bolt Creek Fire, which scorched nearly 15,000 acres across east Snohomish and King counties. During the fire's six-week run, smoke repeatedly degraded air quality to dangerous levels through most of the community.

People here have long understood how the arrival of fall rains connect to river flooding. Many are beginning to appreciate that the onset of summer, when clouds are scarce and the temperature is climbing, connects with fire. When humidity is low and the winds are blowing, particularly from the east, it is the time to scan the skies for signs of smoke from wildfires.

This draft Community Wildfire Protection plan represents the first countywide effort to identify strategies for living more safely with fire risk. Its development was deliberate, inclusive and data driven. It reflects insights and collaboration from 50 planning partners including firefighters, land management agencies, tribal nations, property owners, nonprofits and conservation organizations. More than 1,100 residents also took time in 2024 to complete a detailed survey to gauge, among other things, their wildfire preparedness and concerns about fire risks.

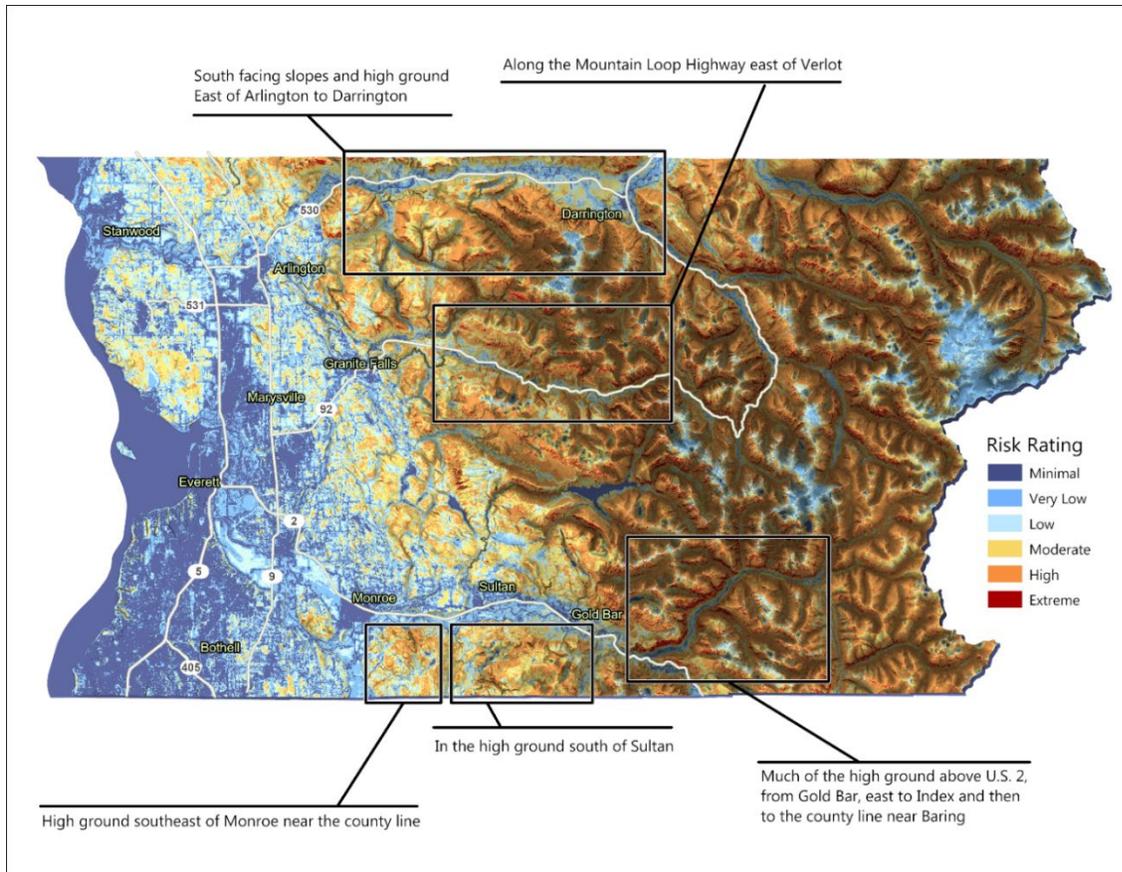
The plan provides a framework for coordinated wildfire mitigation, preparedness, evacuation, post-fire recovery, and outreach efforts – particularly within the WUI areas of Snohomish County. Some of the ways it seeks to better address wildfire risk include:

- Providing clear goals and guidelines for collaborative projects to reduce the brush and other woody fuels that prime forestlands for destructive fires.
- Collecting data to better understand the risks wildfires present to homeowners, businesses, and vulnerable communities.

- Improving access to information about making homes and property more fire-resistant as well as guidance for preparedness and evacuation planning.

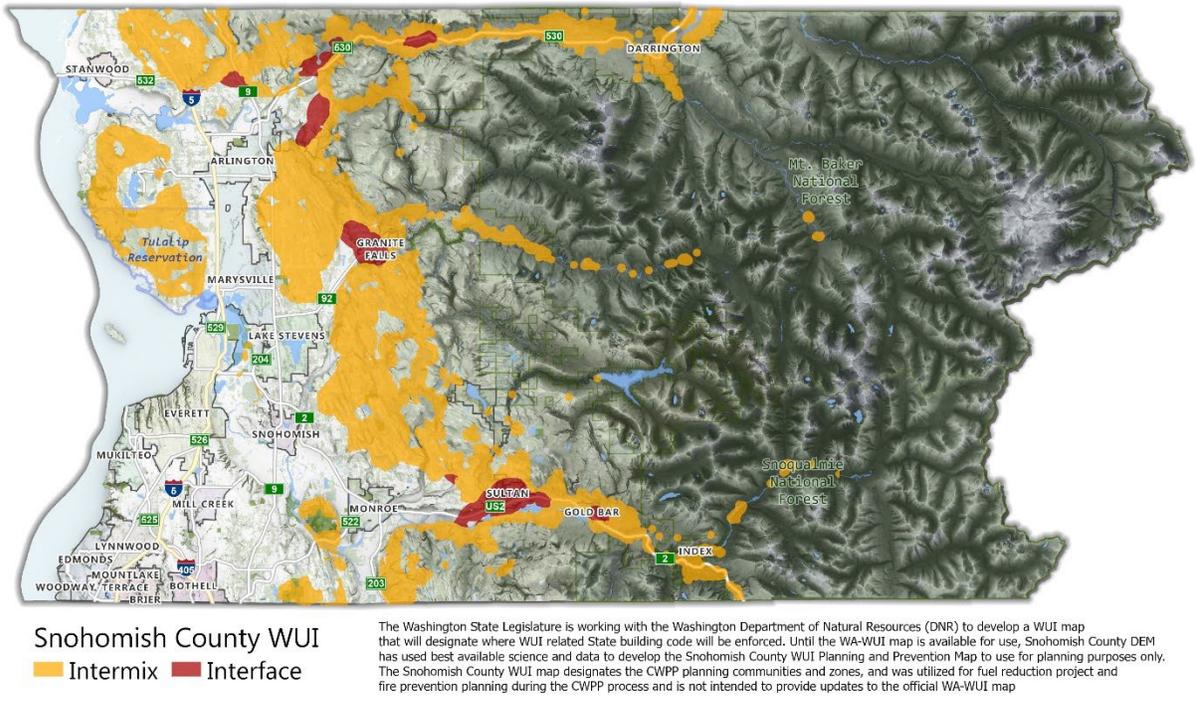
When fully developed, this plan should help fire agencies better embrace the risks and unique needs of their communities. This in turn should better position the people they serve to compete for federal and state funding that supports wildfire training, exercises, and equipment acquisition.

Key data informs this effort. Geospatial analysis was used to identify places in the county where topography and ground cover contribute to elevated wildfire risk. Much of this terrain is found bordering the Stillaguamish and Skykomish river valleys (See map 6).



Map of the wildfire risk within Snohomish County

Related data work identified areas in and adjacent to forestlands where people are building homes and wildfire mitigation is most needed (See map 1). The analysis provides people with actionable information for better understanding wildfire challenges and shaping a response that fits their needs.



Map of the Wildfire Urban Interface within Snohomish County

The wildfire protection plan is a collaboration by the partner team. Over the 20-month planning period, the team developed five overarching goals supported by 33 objectives.

Goal 1: Minimize Wildland Fire Threat – Reduce the risk to life, property, and resources by increasing opportunities for collaboration, coordination, and capacity building to implement wildfire mitigation projects, provide robust public outreach, and decrease the number of human-caused wildland fires. This goal is accomplished using five objectives, including providing landscaping guidance for home and business owners within the wildland urban interface.

Goal 2: Fire Adapted Communities - Empower residents, leaders, and other partners with knowledge, decision-making tools, and resources to understand and reduce wildfire risks, increase preparedness, and plan for post-fire recovery. This goal is met through seven objectives, including stepped up public outreach and developing a standardized wildfire education and resource kit to provide agencies.

Goal 3: Resilient Landscapes – Use best available science and data to inform, prioritize, and support the implementation of fuels treatment projects on private and public land to reduce risk, increase resiliency, and create defensible landscapes. Among the eight objectives are using the state Department of Natural Resources Forest Health tracker and Forest Health Plan to identify and prioritize timber sales, restoration thinning projects and other wildfire hazard mitigation treatments, plus removing pockets of diseased trees or blow down on public lands to reduce ladder fuels and mitigate fire hazards.

Goal 4: Safe and Effective Wildfire Response –

Establish a cross-jurisdictional, countywide wildfire plan and local response annexes that include evacuation planning, communication planning, critical infrastructure and hazard mapping. The eight objectives to reach this goal include more coordination for evacuation planning, plus closer work with mass care partners to support sending people to cleaner air centers and to identify public cooling and cleaner air centers.

Goal 5: Fire Resilient Economies – Recognize that natural resource production and outdoor recreation are key parts of the Snohomish County economy and develop mitigation strategies that minimize adverse impacts to both, create economic opportunities, support community vitality and quality of life, and post-fire recovery efforts. The five objectives include ensuring the safety of tourists and visitors in the event of wildfire and establishing a resource and recreational advisory panel to support planning for economic resilience.

Cutting across these goals and objectives are 70 specific mitigation strategies, that cover:

- **Fuels reduction and management**, including eight mitigation strategies.
- **Planning and data analysis**, including 12 mitigation strategies.
- **Public education and outreach**, including 15 mitigation strategies.
- **Policy**, including 24 mitigation strategies.
- **Wildfire response readiness**, including 11 mitigation strategies.

The plan identifies leads for implementing each strategy. Recommendations range in complexity from automating the power grid with equipment that minimizes fire risks, to encouraging more brush clearing by residents, to developing a post-fire recovery program that includes funding to help businesses with revenue losses after a wildfire evacuation.

TAKE ACTION

Here are steps you can take immediately to better prepare for wildfire risk:

Stay informed. Sign up for SnoCoAlerts <https://snocoalerts.snoco.org>. Bookmark the wildfire page (www.bit.ly/snocowildfire) on the Snohomish County Public Safety Hub (<https://snoco.org/safety>)

Plan for a wildfire emergency. If you live in the WUI or another at-risk zone, identify all your options for swiftly leaving should evacuation become necessary. What routes could you drive to safety? How would you bring along your pets and livestock? Do you have a go-bag packed? Are your key documents kept where you can grab them and leave? How will you stay in contact with family and friends? If you live in a place where evacuation due to fire is unlikely, how will you limit exposure to wildfire smoke?

Seek help in assessing ignition risk at your property. The Snohomish Conservation District and state Department of Natural Resources can provide expert advice, including to people living inside cities and towns.

Ensure there is defensible space around your home and outbuildings, at least 30 feet. Trim back brush and any limbs overhanging structures. Make sure woodpiles are not stacked against buildings.

Heed burn bans from the county Fire Marshal, the Puget Sound Clean Air Agency and the state Department of Natural Resources. Avoid activities that can introduce sparks, including discarding cigarette butts and parking hot cars on grass.

Regular, robust interaction with county residents will continue as the plan transitions from ideas to actions. The 1,100 people who completed the wildfire preparedness survey in 2024 left little doubt that there is much interest and room for discussion:

- Compared to five years ago, 59% of respondents are “more concerned” or “much more concerned” about the safety of their family, home, and assets from wildfire.
- In the event of a wildfire, 34% of respondents do not have a firm evacuation plan.
- More than 72% believe wildfire mitigation projects (forest thinning and fuel reduction) benefit the forest. Nearly 20% are unsure.
- About 43% said they were uncertain what steps to take to reduce wildfire risk at their property.

The Community Wildfire Protection Plan provides the framework for building consensus on next steps, identifying a shared path to keep Snohomish County a place of trees.

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Record of Updates

Record all base plan and annex updates here for general situational awareness. The method and schedule for evaluation and revision of this plan can be found in the Planning Process Appendix.

Record of Updates No.	Date	Changes Made	Completed By
E.G.	01/30/202x	Record section where change is located and a narrative of the change	Staff Name
[#]	[Date]	[Overview of changes]	[Name]

1.0 Introduction to the Community Wildfire Protection Plan

1.1 Purpose of the Community Wildfire Protection Plan

A Community Wildfire Protection Plan (CWPP) is a guidance document for communities to reduce their wildfire risks and plan for wildfire response. It is not regulatory in nature, but provides recommendations for local jurisdictions on mitigating risks and making their communities more resilient to wildfires. In Washington State, the Department of Natural Resources is responsible for approving local CWPPs, and recommends planning on a countywide scale, as a chapter or an appendix to the County's Hazard Mitigation Plan.

The National Wildfire Coordinating Group defines a CWPP as:

“A plan developed in the collaborative framework established by the Wildland Fire Leadership Council and agreed to by state, tribal and local government, local fire department, other stakeholders and federal land management agencies managing land in the vicinity of the planning area. A community Wildfire Protection Plan (CWPP) identifies and prioritizes areas for hazardous fuel reduction treatments and recommends the types and methods of treatment of Federal and non-Federal land that will protect one or more at-risk communities and essential infrastructure and recommends measures to reduce structural ignitability throughout the at-risk community. A CWPP may address issues such as wildfire response, hazard mitigation, community preparedness, or structure protection – or all of the above”

The Healthy Forests Restoration Act of 2003 established national minimal standards for CWPPs, designating the State Forester responsible for oversight in local jurisdictions and requiring that local and tribal governments, local fire departments and the state agency responsible for forest management approve and sign the plan as well as subsequent updates. The Healthy Forests Restoration Act also established the three minimal requirements for a CWPP:

1. Collaboration – the CWPP must be developed collaboratively among local, state and federal agencies and other interested parties
2. Prioritized Fuel Reduction – Areas of hazardous fuel reduction treatments must be identified and prioritized including methods of treatment that will protect one or more at-risk communities and essential infrastructure
3. Treatment of Structural Ignitability – Recommendations and resources for homeowners and communities to reduce ignitability of structures must be addressed by the CWPP (Washington State Department of Natural Resources, 2023)

In 2009, Congress passed the Federal Land Assistance, Management, and Enhancement Act (FLAME Act) that mandated the development of a National Cohesive Wildland Fire Management Strategy (National Strategy). The National Strategy was finalized in 2014 by the US Department of the Interior, and provides planning guidelines for everyone to work together using best management practices, public outreach and best available data to make progress in three main goals:

1. **Resilient landscapes:** Landscapes, regardless of jurisdictional boundaries, are resilient to fire, insect, disease, invasive species and climate change disturbances, in accordance with management objectives.
2. **Fire-adapted communities:** Human populations and infrastructure are as prepared as possible to receive, respond to and recover from wildland fire (that impacts communities).
3. **Safe and effective risk-based wildfire response:** All jurisdictions, responding in all land types, participate in making and implementing safe, effective and efficient risk-based wildfire management decisions.

The National Strategy addresses four broad challenges:

1. Managing vegetation and fuels;
2. Protecting homes, communities, and other values at risk;
3. Managing human-caused ignitions; and
4. Effectively and efficiently responding to wildfire. (US Department of the Interior, 2014)

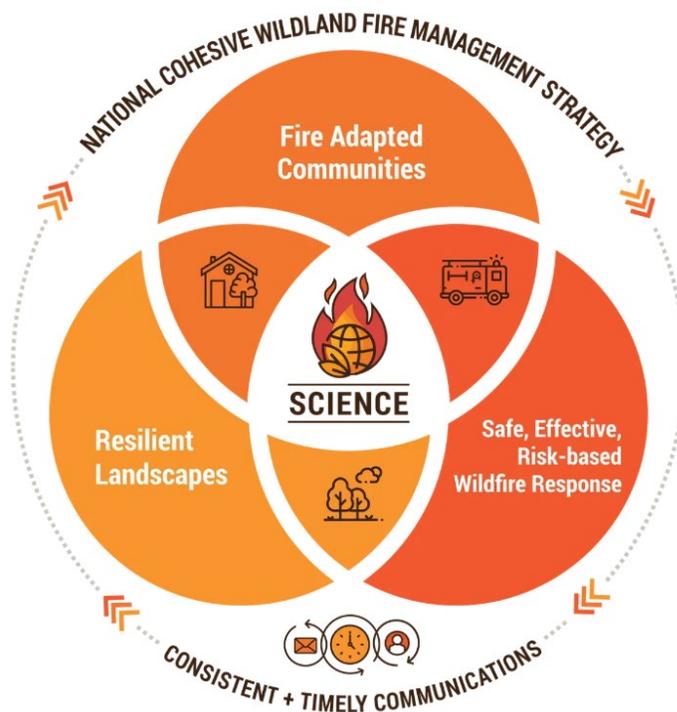


Figure 1 – The National Cohesive Wildland Fire Management Strategy,
Source: US Department of the Interior

Additionally, the International Association of Fire Chiefs recommends that CWPPs include clear goals and objectives, current fuel conditions, and define the desired conditions (International Association of Fire Chiefs, 2024). Completing a State and Federal approved CWPP allows local jurisdictions, tribes, agencies and organizations to be eligible for many sources of funding opportunities including but not limited to (subject to change as new information becomes available):

- Community Wildfire Defense Grant | WA – DNR
- America the Beautiful Challenge | NFWF
- Title III FAQs | US Forest Service (usda.gov)
- Landscape Scale Restoration Competitive Grant
- Hazard Mitigation Assistance Grant
- Assistance to Firefighters Grants (AFG)
- Staffing for Adequate Fire and Emergency Response (SAFER)

In an effort to build a fully collaborative document, Snohomish County assembled a Planning Team and an Advisory Committee consisting of local jurisdictions, tribes, agencies, WA DNR, the USFS Mount Baker-Snoqualmie District, County government departments, local outdoor education and conservation nonprofit organizations, transit agencies, the American Red Cross and the Pilchuck Tree Farm. The Planning Team met monthly for six months, and the Advisory Committee met quarterly to develop goals, objectives and mitigation strategies for the Snohomish County CWPP. Both groups came together along with additional local subject matter experts and stakeholders for a half-day wildfire mitigation workshop to develop and prioritize mitigation actions to include in the countywide plan. Additional details on the CWPP planning process can be found in Appendix A.

1.1.1 Mission Statement

Establish a collaborative group of first response, emergency management, land management, nonprofit agencies, tribal nations, and natural resource conservation organizations working together to create a proactive, easily accessible Community Wildfire Protection Plan (CWPP), providing a comprehensive framework to plan and fund coordinated mitigation, preparedness, evacuation, post-fire recovery, and outreach efforts within the Wildland Urban Interface (WUI) areas of Snohomish County.

1.1.2 Vision Statement

This CWPP will provide a roadmap toward reducing wildfire risk in Snohomish County by providing clear goals and guidelines for collaborative fuel reduction and mitigation projects, understanding risks to homeowners, businesses, and vulnerable communities, providing outreach to residents for defensible space and fire-resistant construction, and guidance for wildfire preparedness and evacuation education programs. This plan will also help fire agencies understand the risks and unique needs of their communities, including residents with access and functional needs, and qualify agencies for federal and state funding programs to support training, exercise, and equipment procurement.

1.2 Goals and Objectives

This plan will serve as an Annex to the Snohomish County Hazard Mitigation Plan. The following CWPP Goals and Objectives were developed by the Planning Team and approved by the Advisory Committee on September 5, 2024.

Goal 1: Minimize Wildland Fire Threat

Reduce the risk to life, property, and resources by increasing opportunities for collaboration, coordination, and capacity building to implement wildfire mitigation projects, provide robust public outreach, and decrease the number of human-caused wildland fires.

Number	Objective Description
1.1	Complete an updated county-wide wildfire risk assessment, identifying level of risk to communities along with contributing factors, and share with local, state and federal partners every 5 years.
1.2	Complete an updated county-wide Wildland Urban Interface assessment and identify the level of risk to communities and structures within the WUI areas every 5 years. Continue to support the implementation of the WUI code at the State and Local level by
1.3	Continue to support the implementation of the WUI code at the State and Local level by promoting the use of fire-resistant materials and design in new construction and provide guidance for home and business owners seeking to mitigate wildfire risk to existing structures.
1.4	Provide landscaping guidance for home and business owners within the WUI areas to reduce wildfire risk to structures during the permitting process, at public outreach events and during scheduled site visits.
1.5	Provide robust public education and outreach to inform residents and visitors of the wildfire risks in the WUI areas, the activities that lead to human-caused fires, and how to minimize and prevent the start of vegetation fires at annual public outreach events and during Wildfire Awareness month.

Table 1 – Goal 1 Objectives

Goal 2: Fire Adapted Communities

Empower residents, leaders, and other partners with knowledge, decision-making tools, and resources to understand and reduce wildfire risks, increase preparedness, and plan for post-fire recovery.

Number	Objective Description
2.1	Conduct countywide public outreach survey to assess wildfire risk mitigation knowledge, evacuation preparedness, and community values of Snohomish County residents every 5 years.
2.2	Identify gaps in wildfire public education materials and create common materials to address gaps for use across Snohomish County within 1 year of every CWPP update.
2.3	Provide a standardized wildfire education and resource kit to agencies for outreach efforts, and update every 5 years.
2.4	On an annual basis, work with public agencies and private landowners to identify and mitigate access issues for brush and wildfire response
2.5	Provide an annual CWPP mitigation action report to County Leadership and Snohomish County Tomorrow.
2.6	Develop and distribute public education materials building managers can use to improve filtration and reduce occupant exposure to wildfire smoke on an annual basis.
2.7	Develop and distribute public education materials that builders and homeowners can use to properly site and maintain electrical equipment on private residences.

Table 2 – Goal 2 Objectives

Goal 3: Resilient Landscapes

Use best available science and data to inform, prioritize, and support the implementation of fuels treatment projects on private and public land to reduce risk, increase resiliency, and create defensible landscapes.

Number	Objective Description
3.1	Support fire agency and Conservation District programs that assist home and forest owners in reducing wildfire fuel sources on their land and within their communities, including budget proposals and annual grant application coordination.
3.2	Develop sustainable fuel management initiatives at the homeowner and homeowners' association level, review and update every 5 years.
3.3	Promote public outreach and cooperation for all fuels reduction projects to solicit community involvement and private landowner cooperation when they are proposed and permitted.
3.4	Prioritize wildfire hazard reduction treatments around communities within the WUI areas and along major evacuation routes when feasible.
3.5	Use the Washington State Department of Natural Resources Forest Health tracker and Forest Health Plan to identify and prioritize timber sales, restoration thinning projects and other wildfire hazard mitigation treatments, focusing on forest health and community protection.
3.6	Establish healthy forest practices when developing recreation areas, building and maintaining trails, or removing pockets of disease or blow down on public lands to reduce ladder fuels and mitigate fire hazard.
3.7	Pursue annual funding opportunities to purchase, install and support and maintain current and additional fire detection cameras and equipment.
3.8	Upgrade and automate the electric grid in fire-prone areas with system safety and protection controls to 1) prevent ignition from electrical equipment and 2) enable more accurate and efficient fault detection, isolation and service restoration.

Table 3 – Goal 3 Objectives

Goal 4: Safe and Effective Wildfire Response

Establish a cross-jurisdictional, countywide wildfire plan and local response annexes that include evacuation planning, communication planning, critical infrastructure and hazard mapping.

Number	Objective Description
4.1	Conduct countywide fire agency survey to assess current wildfire resources and equipment inventory and identify needs for future grant proposals annually.
4.2	Create a CWPP planning subcommittee to develop an Incident Action Plan template for wildfire evacuation that can be used by fire agencies for effective response, review and update every 5 years.
4.3	Conduct tabletop exercises within WUI communities to identify gaps within standardized evacuation IAP every 5 years.
4.4	Establish an inter-agency CWPP coordination committee and determine meeting frequency to support continued efforts after Snohomish County CWPP is completed.

Number	Objective Description
4.5	Identify and create list of current available funding sources for wildfire response and mitigation efforts to support local/regional grant submissions where applicable on an annual basis.
4.6	Coordinate shelter planning between mass care partners to support wildfire evacuations and cleaner air centers and identify public cooling and cleaner air centers as they are developed.
4.7	Develop public education materials for building managers to improve air quality for tenants within 1 year of every CWPP update
4.8	Coordinate with Snohomish PUD on the Public Safety Power Shutoff communications plan and outage restoration updates.

Table 4 – Goal 4 Objectives

Goal 5 Fire Resilient Economies:

Recognize that natural resource production and outdoor recreation are key parts of the Snohomish County economy and develop mitigation strategies that minimize adverse impacts to both, create economic opportunities, support community vitality and quality of life, and post-fire recovery efforts.

Number	Objective Description
5.1	Develop strategy for ensuring the safety of tourists and visitors to Snohomish County in the event of wildfire within 1 year of every CWPP update
5.2	Expand existing awareness campaigns and develop communication strategies to educate visitors and recreators about wildfire prevention and risk mitigation while visiting or recreating within Snohomish County within 1 year of every CWPP update
5.3	Continue the development and dissemination of educational materials for communicating ignition prevention, etc. during times of burn bans to WUI residents
5.4	Establish resource and recreational advisory panel to support economic wildfire resilience planning and assist in the update of the CWPP every 5 years.
5.5	Use robust public outreach during the planning process to understand the unique structure, systems, historical and cultural important places, and demographics of WUI communities to ensure that post-fire recovery planning efforts are equitable and meet the needs of the residents within those communities.

Table 5 – Goal 5 Objectives

1.3 Snohomish County Profile

Snohomish County was originally settled by Indigenous Salish tribes who lived off the abundant natural resources in the county’s forests, rivers and valleys. European settlement occurred in the late 18th Century, drawn by those same natural resources where they established communities along the rivers and within the forests. Native tribes used the waterways to navigate the mountainous regions, and those same transportation routes were replaced by rail lines and roadways. Many of these historic transportation routes were improved to become the major roads and highways used today, which creates challenges for fire response and evacuation. The topography of the mountains and drier parts of the upper mountain valleys, compounded by recent extreme weather events and drought also lead to some of the challenges firefighters face with ignition sources and fire response.

1.3.1 Historic Overview

Several native tribes, including the Snoqualmie, Skykomish, Sauk-Suiattle, Stillaguamish, and Snohomish, occupied the region that is currently recognized as Snohomish County. Both oral tradition and archaeological records indicate that these tribes consisted of hunters, gatherers, and fishermen whose vast territories covered the region's mountains, prairies, and river systems.

The Snohomish Historical Society discussed the definition of the name Snohomish in their book *River Reflections*, stating:

"Indians named rivers and areas after their own tribes. The dominant tribe in this county was the Snohomish, the Indians spelling it 'Sdoh-doh-hohbsh.' Although many historians debate the meaning or claim it had none, Chief William Shelton, last of the hereditary Snohomish chiefs, said it meant lowland people. Other students of Indian lore say it might mean 'a style of union among them' of 'the braves'. Other sources claim the name means 'Sleeping Waters'. Still other spellings have given Sdohobich." (Snohomish Historical Society, 1975)

European-American settlement began in 1792 with the arrival of Captain George Vancouver. It continued rapidly into the 20th century due to the abundance of natural resources in the region, including timber. In 1855, the Treaty of Point Elliott reserved the Tulalip Reservation for the use and benefit of the local tribes. It was created to provide a permanent home for the Snohomish, Snoqualmie, Skagit, Suiattle, Samish, and Stillaguamish Tribes and allied bands living in the region (The Tulalip Tribes, n.d.). Urban development continued centric to Seattle in the lowlands and natural resource production led to smaller towns and cities within the river and mountain valleys.

Snohomish County further grew in the late 1960s, following the construction of the Boeing 747 plant at Paine Field. Increased development of high-technology industries along the north Interstate 405 corridor and toward Lake Stevens and Marysville brought population increases in those areas too. During the last 30 years, the traditional economic mainstays of farming, logging, lumber, and paper production started to decline, affecting the economies and lifestyles of many of the county's natural resource-based communities. Over the last several decades the population in Snohomish County has grown faster than the average growth rate of counties in Washington State and the national average. As of the 2023 Snohomish County Tomorrow Growth Monitoring Report, the population of Snohomish County is estimated at 859,800 (Snohomish County Tomorrow, 2024).

1.3.2 Geography

Snohomish County is located on Puget Sound in Western Washington and is the 13th largest county in Washington by total area, with a total area of 2,196 square miles (2,089 square miles of land and 107 square miles of water). It is located between Skagit County to the north and King County to the south and borders Chelan County to the east and Island County to the west with the water of Puget Sound.

The county's varied topography ranges from saltwater beaches, rolling hills, and rich river bottom farmlands in the west to dense forest and alpine wilderness in the mountainous east. The mountainous geography of the eastern portion of the county caused the bulk of Snohomish County's development and

population growth to occur along the narrow, westernmost Puget Sound lowlands. More than half of the county is mountainous, with peaks reaching elevations over 6,000 feet and supporting glaciers and perennial snowfields. Glacier Peak, at 10,541 feet, is the highest point in the county and one of the highest in the state.

Most of the county’s communities are in the western lowlands near primary transportation corridors including Interstate-5, State Route-9, US Highway-2, and State Route-530. Snohomish County also hosts multiple railways connecting the communities to Puget Sound and Canada. Many sections of the historic railways have been converted to recreational trail systems, such as the Interurban Trail and Centennial Trail, while others are used for the Sound Transit commuter train and freight trains.

Washington State Department of Ecology identified that Snohomish County has five Water Resource Inventory Areas (WRIAs) and two major river basins (Washington State Department of Ecology, 2025):

Watershed Resource Inventory Areas	Lower Skagit/Samish Upper Skagit Stillaguamish Snohomish Cedar/Sammamish
Snohomish River Basin	Covers approximately 1,856 square miles in King and Snohomish Counties and contains over 2,700 miles of streams, making it the second largest basin draining to Puget Sound. The Skykomish and Snoqualmie Rivers originate in the Cascade Mountains and flow west before meeting near the City of Monroe where they become the Snohomish River. The Snohomish River continues to the estuary near the City of Snohomish and reaches Puget Sound between the cities of Everett and Marysville.
Stillaguamish River Basin	Covers approximately 700 square miles in area, with about 3,100 miles in stream length. Located in the northern half of the county, the Stillaguamish River drains approximately one-half of the county’s land area. With basin streams originating in Skagit and Snohomish County, the “Stilly” is the fifth largest tributary draining into Puget Sound.

Table 6 – Snohomish County Watershed Inventory Resource Areas and river basins

1.3.3 Geology

Many of the geologic features of Western Washington are shaped by plate tectonics. The Juan de Fuca Plate, a small, low-lying oceanic plate, is moving under the western edge of the North American Plate at the Cascadia Subduction Zone. This friction causes earthquakes of considerable magnitude, which may generate tsunamis (Pacific Northwest Seismic Network, n.d.). As the dense oceanic crust is gravitationally pulled under the continental plate and deep into the mantle, parts of the crust turn into magma, resulting in the creation of volcanoes such as Glacier Peak (US Geological Survey, 2025). Though seismic activity in Snohomish County has been moderate to low, this active tectonic system has created a landscape of mountains, valleys and lowlands.

Over a few million years, at least four glacier periods carved and scoured the landscape of Snohomish County. Twenty thousand years ago, glaciers covered the land between the Olympics and the Cascade Mountains as far south as Olympia in several thousand feet of ice. When the ice finally retreated to the north about 13,000 years ago, it left behind deeply gouged channels, north-south oriented passages, and bays. Weather, waves, rivers, and gravity reworked the glacial sediment, molding landforms and shorelines into the beaches and bluffs that now edge the Puget Sound region (Washington State Department of Natural Resources, 2025). The rivers cut through these valleys, transporting and re-distributing nutrient rich sediments throughout the productive floodplains.

1.3.4 Climate and Weather

As Snohomish County’s landscape varies significantly between the valleys and the neighboring mountains, so does its climate. Locations along the Puget Sound are generally characterized as a moderate year-round climate, with average temperatures ranging from about 75°F in July to about 33°F in January. Since 1900, average annual air temperature in the Puget Sound region has increased by 1.3 degrees Fahrenheit and is projected to be 5.5°F warmer in the 2050s. Extreme heat events are forecast to worsen in Snohomish County. By mid-century the county is projected to experience between eight to 20 more days of extreme heat each year, which means drier forests and increased heat stress on native trees along with the human impacts of increased calls for emergency services, hospital visits, and increased energy usage (Snover, Raymond, Roop, & Morgan, 2019).

Snohomish County, Washington Annual Average Temperature, 1900-2024 (National Oceanic and Atmospheric Administration, 2025)

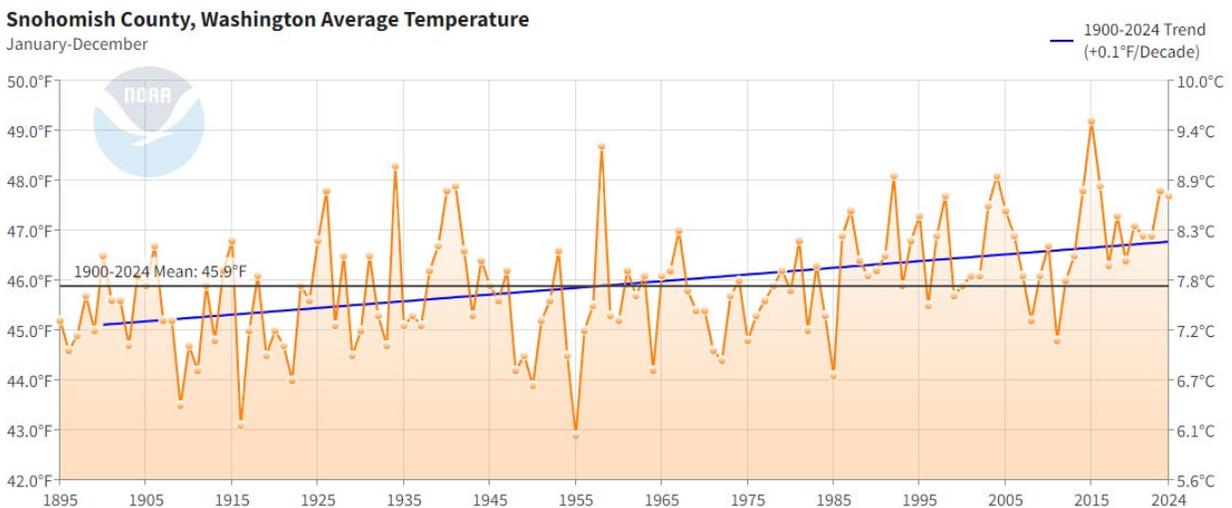


Figure 2 – Snohomish County Average Temperature 1900 – 2024
Source: National Oceanic and Atmospheric Administration

The Olympic Mountains to the west, across Puget Sound, shelter the area from excessive precipitation coming off the Pacific Ocean. Annual precipitation in the western part of the county is 35 inches but increases sharply as the elevation climbs into the Cascade Mountains (Index, 110" - 120"). This precipitation is concentrated between October and May, with June through August typically receiving less

than 1.5 inches per month. The frequency of extreme precipitation events from atmospheric rivers are projected to increase across the Northwest and reach farther inland (U.S. Global Change Research Program, 2023). Snohomish County is dominated by a moist vegetation zone where most rainfall occurs in the winter and higher elevations receive a large snowpack that can persist until June and July. This provides an ideal environment for long term, large tree growth with a robust understory. The coastline of the county sometimes experiences fog or low clouds in the summer that can mitigate the effects of heat and drought. Strong wind driven storms typically occur in the winter during the higher precipitation season. However high heat events in the summer can trigger synoptic east wind events that can bring strong winds to the western slopes of the Cascades. (Reilly, Matthew J., et. al, 2021)

1.3.5 Wildland Urban Interfaces (WUI)

Areas of development near forested areas, grasslands and other sources and conditions for wildland fire ignition are classified as the Wildland Urban Interface, or WUI. The Federal Register defines the WUI as “a community [that] exists where humans and their development meet or intermix with wildland fuel.” It is characterized into three categories Intermix, Interface and Occluded communities and defined as such:

- **Interface Community** – According to the Federal Register, the Interface Community exists where structures directly abut wildland fuels. In an interface community there is a clear line between the wildland fire fuel sources and the developed community. Densities within these communities average three structures per acre, or alternatively can be defined as a community with 250 people or more per square mile.
- **Intermix Community** – The Intermix Community exists where structures are scattered throughout a wildland area. There are no clear lines of development between the vegetation and built structures in these areas, and densities can range from a few structures close together to one structure per 40 acres, or alternatively as 28-250 people per square mile.
- **Occluded Community** – The Occluded Community generally exists in a location, often within a city, where structures abut an island of wildland fuels (e.g., park or open space). Development densities are similar to Interface Communities, but the occluded area is typically smaller, less than 1,000 acres in size, and is present within or around the development of the community.

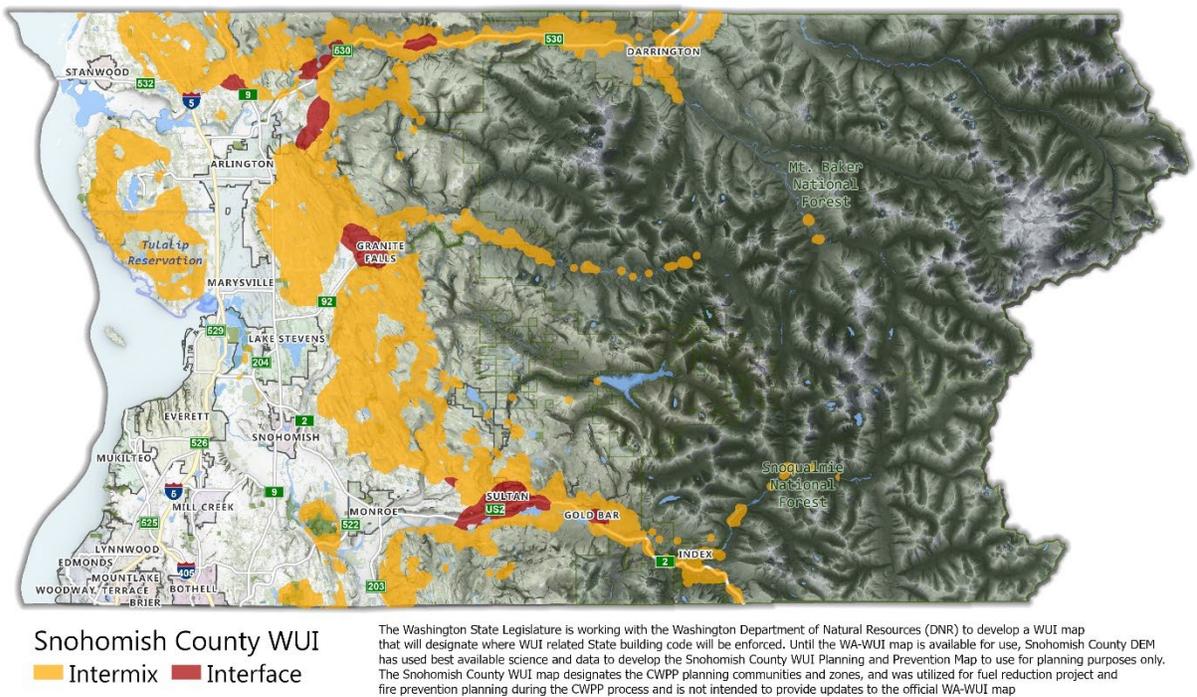
CWPP guidance recommends focusing on both the Interface and Intermix communities, and for the purposes of this plan, “WUI areas” will refer to the Intermix and Interface only, unless otherwise specified. This base plan will address conditions and fuels within both the Intermix and Interface categories within the county. That said, occluded communities have their own needs and planning considerations. Community forests and greenspaces are valuable assets to urban residents, as they preserve natural spaces among development and mitigate the heat island effect (US Environmental Protection Agency, 2025). The County recognizes the unique challenges of balancing the need for preserving urban tree canopy while mitigating fire risks, and will include a future annex for the occluded communities within the Southwest Urban Growth Area.

Wildland Urban Interface (WUI): where humans and their development meet or intermix with wildland fuel.

Roughly 130,000 people live within WUI areas of Snohomish County, including parts of the following communities: Arlington, Darrington, Gold Bar, Granite Falls, Index, Monroe, Snohomish, Stanwood, and Sultan.

The Snohomish County Wildland-Urban Interface areas were determined by identifying all locations within the County with a housing density greater than or equal to one structure per 40 acres. Structures used for this analysis came from the Snohomish County Enhanced Emergency Services Communication System address database representing all dispatchable addresses within the local 911 system. For each of these locations, structures adjacent to greater than 50% wildland vegetation cover within a 500-meter radius were classified as being located within intermix WUI. If those structures did not meet this definition, the distance was measured to the closest large area (greater than or equal to 5 square kilometers) of wildland vegetation. Structures within 2.4 kilometers of such an area were classified as Interface WUI¹.

The Washington State Legislature is working with the Washington Department of Natural Resources to develop a WUI map that will designate where WUI related State building code will be enforced. Until the WA-WUI map is available for use, Snohomish County DEM has used best available science and data to develop the Snohomish County WUI Planning and Prevention Map to use for planning purposes only. The Snohomish County WUI map designates the CWPP planning communities and zones. It was used for fuel reduction project and fire prevention planning during the CWPP process, but is not intended to provide updates to the official WA-WUI map. The Snohomish County WUI map can also be found in Story Map format online at <https://storymaps.arcgis.com/stories/27e3d9b6c67846c5a07799b3d4e6f2cd>. When WA DNR releases the official base-level wildfire risk map, Snohomish County will adopt the same or substantially similar risk criteria, as per RCW 19.27.560.

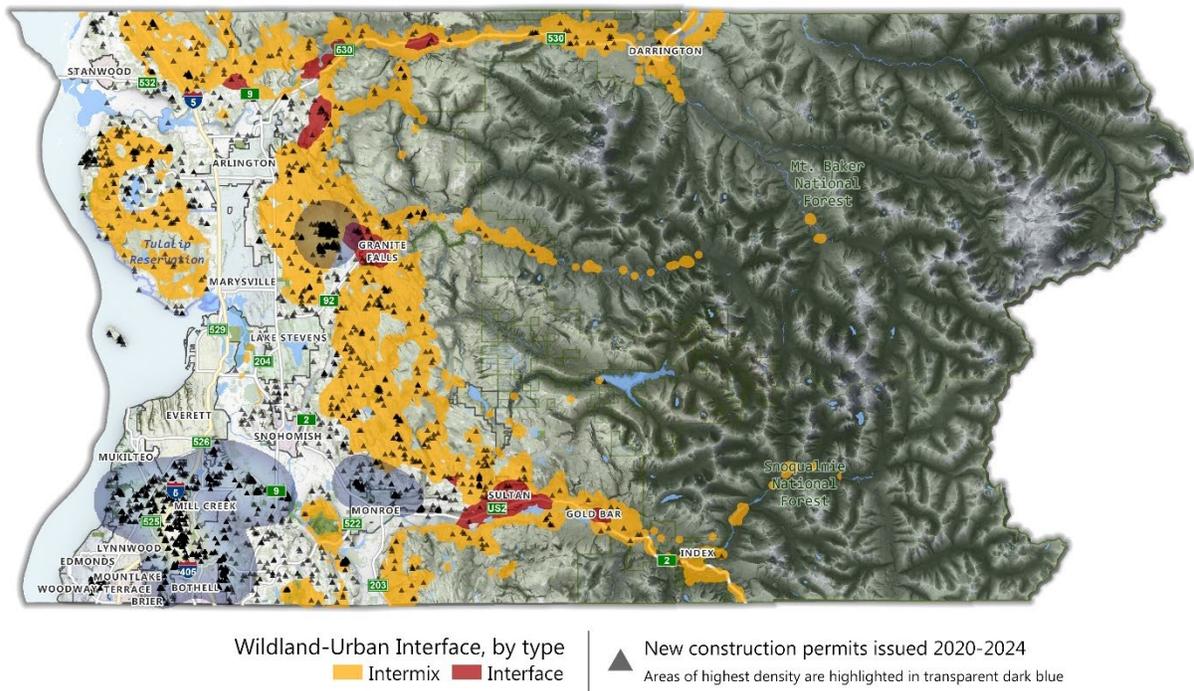


Map 1 – Wildfire Urban Interface and Intermix in Snohomish County

1.3.6 Land Use and Development

Development in unincorporated Snohomish County is regulated by Snohomish County Code Title 30, the Unified Development Code (UDC). Incorporated cities and towns within the county implement their own development codes and regulations. Snohomish County plans under the Growth Management Act of Washington RCW 36.70A, which requires counties to direct the majority of development into urban areas where infrastructure exists, and to limit growth in rural areas, including requirements to protect critical areas and farmland. Growth in the county is monitored by Planning and Development Services and published in regular Growth Monitoring Reports as required under the Countywide Planning Policies. According to the 2024 Growth Monitoring Report, 15% of the total housing units permitted since 1990 have been in the Rural/Resource areas, where many of the WUI areas are also located. However, Snohomish County Planning and Development Services (PDS) has seen a decline in the percentage of housing units in the Rural/Resource areas in the last six years when it has remained below 10% consistently (Snohomish County Planning and Development Services, 2024).

While land use, zoning and subdivision permits are regulated under the UDC, Snohomish County uses the International Building Code to regulate building permits and improvements, including seismic, snow and construction material requirements. In the last five years the County has issued 4,926 total residential building permits including 1,051 permitted within the WUI areas. Of those, 52 were issued within the Interface area and 999 within the Intermix area. The following map shows a breakdown of permits issued in the WUI planning layers.



Map 2 – Residential Building Permit applications in the Wildfire Urban Interface and Intermix in Snohomish County 2020 - 2024

An emerging trend is the recent increase in Rural Cluster subdivision applications. A Rural Cluster subdivision is an alternative to the lot subdivision process in the Rural/Resource areas where developers can group lots into compact clusters as long as they preserve restricted open space within the development. Depending on how much open space the developer proposes to designate, they can receive between a 15-35% density bonus within the subdivision. For example, in certain areas of the Rural Residential 5 (1 home per 5 acres) zone a developer could purchase a 50 acre lot and subdivide it into six 5-acre (217,900 sq.ft.) lots under regular zoning regulations. Under the Rural Cluster Subdivision process, that developer could designate 45% of the total acreage as open space and qualify for a residential density of 1 lot per 200,000 square feet plus a 15% density bonus. This would allow the developer to fit an extra lot into the subdivision. Between 2008 and 2023, the county averaged 40 rural cluster lot applications per year. In 2024, that number spiked to 505 rural cluster lot applications, which was the largest annual total since 2007 according to PDS.

1.3.7 Environment and History of Wildfire

The Western Cascades are dominated by Douglas-fir (*Pseudotsuga menziesii*) and western hemlock (*Tsuga heterophylla*) forests. These species dominate the forest floors in Western Washington and are intermixed with other native tree species such as western redcedar (*Thuja plicata*), Sitka spruce (*Picea sitchensis*), bigleaf maple (*Acer macrophyllum*), vine maple (*Acer circinatum*), red alder (*Alnus rubra*), and black cottonwood (*Populus trichocarpa*). In healthy Western Washington forests, the understory consists of larger bush and berry species such as salmonberry (*Rubus spectabilis*), red elderberry (*Sambucus racemose*), goat's beard (*Aruncus dioicus*) and red huckleberry (*Vaccinium parvifolium*) accompanied by various species of mosses and ferns. These forests transition into alpine species as elevation increases where the dominant tree species shift to mountain hemlock (*Tsuga mertensiana*), alpine fir (*Abies lasiocarpa*), and Engelmann spruce (*Picea engelmannii*) while the understory transitions to support alpine berry species such as the evergreen huckleberry (*Vaccinium ovatum*) and the Cascade blueberry (*Vaccinium deliciosum*).

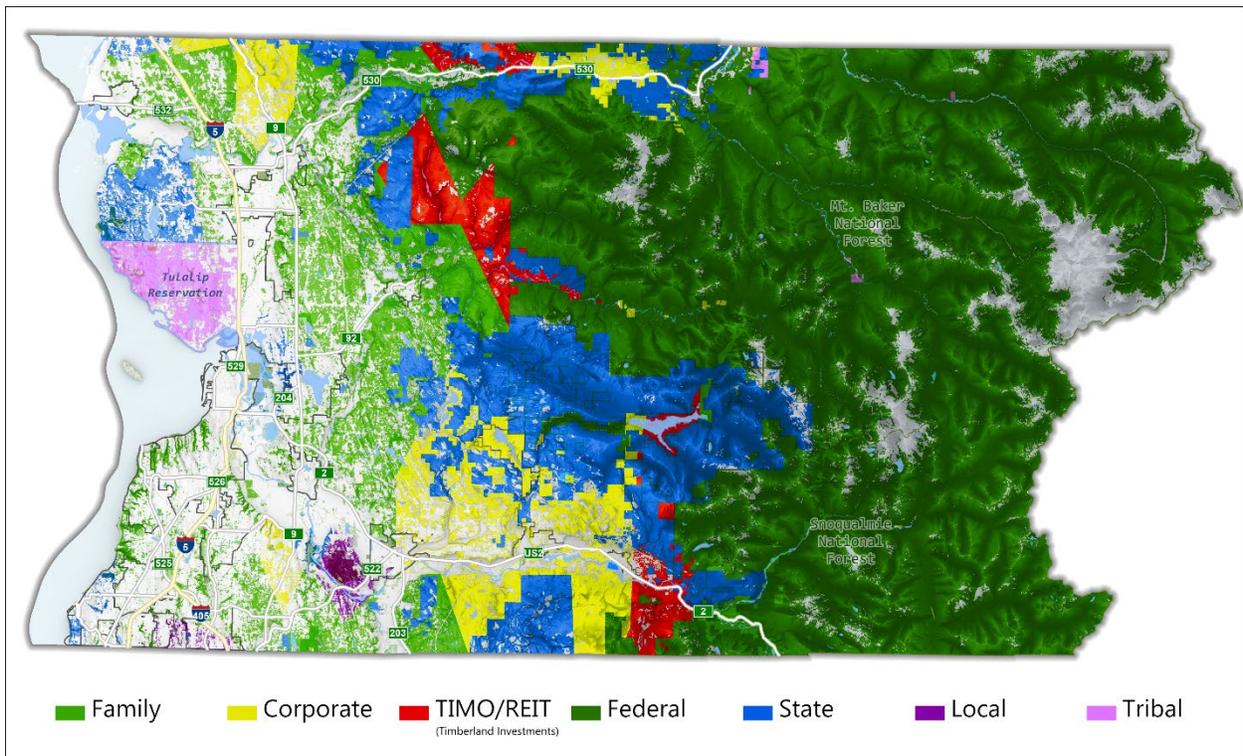
There are almost 1 million acres of forestland within Snohomish County. The majority of our forest acreage is managed by the US Mount Baker-Snoqualmie Forest, in addition to Washington State Department of Natural Resources, Tribal ownership, Snohomish County Department of Conservation and Natural Resources, collaborative timber investments, and private timber stands. Forestlands dominate the east side of the County in the mountains and foothills, and some communities are intermixed with second-growth forest in the lowlands, especially in the north county. Most of the forests outside of the wilderness areas have been previously harvested and contain second-growth conditions where tree stands are more dense than historic, old growth forests. Many private and publicly managed forests have been replanted through aerial seeding or hand planting, with the intention of a future harvest, either through thinning or even-aged management. Some forests within the Mount Baker-Snoqualmie National Forest and other private tree farms have grown past their intended harvest dates for various reasons including the Northwest Forest Plan restrictions or changes of ownership and use of private lands. This has led to issues such as monoculture and densely planted forests lacking diverse understory.

Estimated Forestland by Ownership in Snohomish County 2025 ⁱⁱ:

Ownership/Management Type	Acreage
Federal	591,884
State	170,775
County	4,584
Private	211,353
Tribal	15,671
Total	994,267

Table 7 – Estimated forestland by ownership in Snohomish County, Source: US Forest Service

Forestlands by Ownership 2025



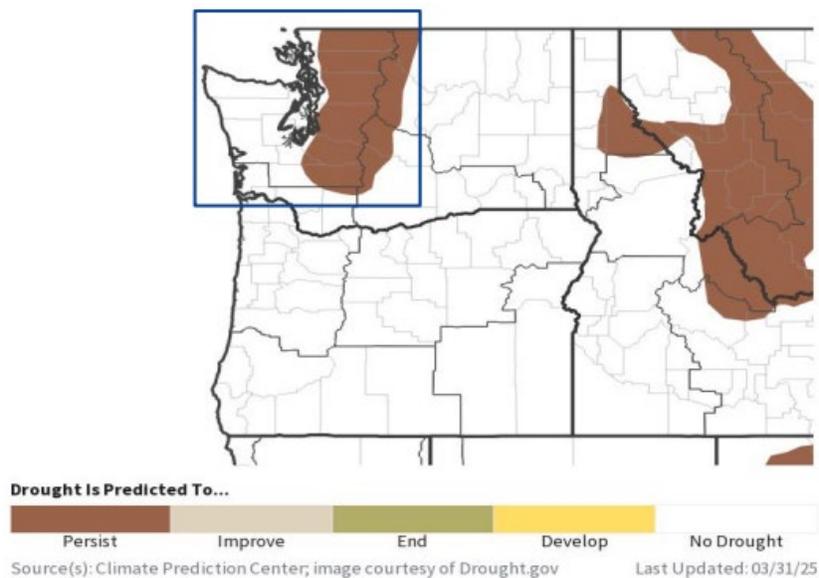
Map 3 – Forestland in Snohomish County by Ownership in 2025, Source – US Forest Service

Tree mortality in western Washington forests occurs for a variety of reasons, and in turn creates additional forest health impacts and wildfire risk. Tree mortality is not generally caused by one stressor but rather a combination of stressors, such as disease, insect infestation, heat and/or drought. Changes in climate increase the severity of these stressors leading to larger tree mortality events. These events may have consequences for wildfire mitigation, such as increased sunlight for the spread of flammable invasive species or increased fuels. A full list of tree diseases and insect pests within forests of Washington State can be found on the DNR Insects and Diseases webpage (Kohler, Glenn, WA DNR, 2025).



Figure 3 – Dense stand of aerial seeded Douglas-fir at Lord Hill Regional Park shows signs of stress and lacks biodiversity (May 2024)

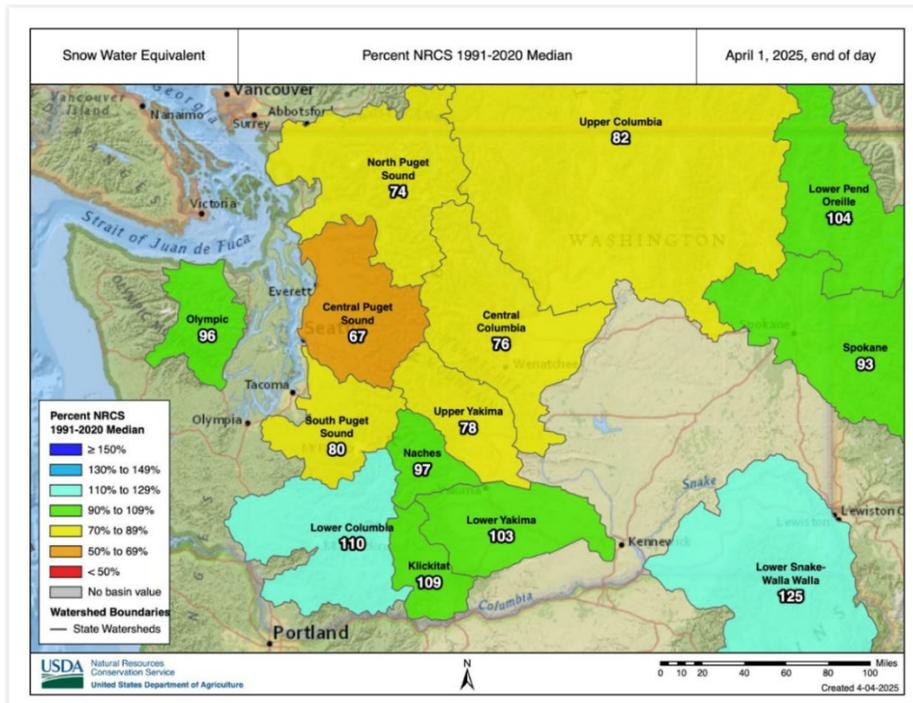
Drought is a common stressor of forest health. Drought typically develops gradually and can last for months to years. This can make it challenging to pinpoint the exact beginning and end of a drought. Consequently, it can take weeks or months to conclusively identify drought conditions.



Map 4 – National Weather Service Drought Outlook for 2025, Source: US Climate Prediction Center

Snohomish County has been included in nine drought declarations since 2001:

- 2001 – Statewide declaration
- 2005 – Statewide declaration
- 2015 – Statewide declaration
- 2019 – 27 Watersheds
- 2021 – Statewide declaration
- 2022 – Extension of 2021 statewide declaration
- 2023 – 12 watersheds/12 counties in the emergency drought declaration with a statewide advisory
- 2024 - Statewide declaration
- 2025 – 19 watersheds/12 counties in the emergency drought declaration



Map 5 – Spring 2025 Snowpack Levels, Source: UW Climate Impacts Group

Drought conditions and water restrictions were declared by the Washington State Department of Ecology in 2023 in portions of Snohomish County within the Skagit watershed and the full county has been included in a Drought Advisory in both 2024 and 2025 (Department of Ecology, 2025). The snowpack in the Cascade Mountains trended below the median in 2025, with the Central Puget Sound Region at only 50-60% of the median snowpack (Genuise, 2025). This has led to a Moderate Drought declaration by the US Drought Monitor for most of Snohomish County as of April 2025 (National Oceanic and Atmospheric Administration, 2025). As of May 25, 2025 the snowpack level at the 2 monitoring stations in Snohomish County were less than 50% of the 1991-2020 median (United States Department of Agriculture, 2025).

The National Wildfire Coordinating Group identifies four critical weather elements that can produce extreme fire weather – low relative humidity, strong surface winds, unstable air, and drought. In Western Washington, east winds, or Chinook winds, occur when unusually warm and dry downslope winds occur

on the leeward side of the Cascades, the slopes that typically are sheltered from prevailing winds. These Chinook winds can create significant fire spread in a short period of time, especially during hot, dry, unstable weather events. (National Wildfire Coordinating Group, 2025) The National Weather Service will issue a red flag warning during periods of high temperatures, very low humidities, and stronger wind combinations to warn of the increased fire risk. (National Weather Service, 2025)

According to the Washington State DNR Large Fire Dataset (1973 – 2023) there have been 12 large wildfire events in Snohomish County (Washington State Department of Natural Resources, 2024). The four largest fires, Bolt Creek, Suiattle River, Downy Creek and Dome Peak have occurred in the last five years. Prior to 2003, there were no recorded large wildfires within Snohomish County. However, historic records have shown that wildfires have raged through the Snoqualmie and Skykomish valleys in the past. This notably includes a series of fires that burned in 1893 between Skykomish and Wellington along what is currently Stevens Pass, that spread from a large fire burning along what is now Snoqualmie Pass. (Snoqualmie Valley Historical Society Board, 2022)



Figure 4 – Wildland firefighters respond to the Bolt Creek Fire in 2022

According to the U.S. Forest Service’s Northwest Forest Plan, Snohomish County contains a mix of:

- moist vegetation forests that experience infrequent, high-severity fires (comprising most of the county), and
- forests, meadows and prairies that experience moderately frequent, mixed-severity fires in the Stillaguamish and Skykomish valleys. (Spies, Hessburg, Skinner, et. al, 2018)

Historically, infrequent, high-severity fires have occurred in the moist vegetation zones of Western Oregon and Washington with an average occurrence rate of 200 – 1,000 years. In these fires, areas that ranged from under 25 acres to over 400,000 hectares experienced over 70% tree mortality from a fire. The

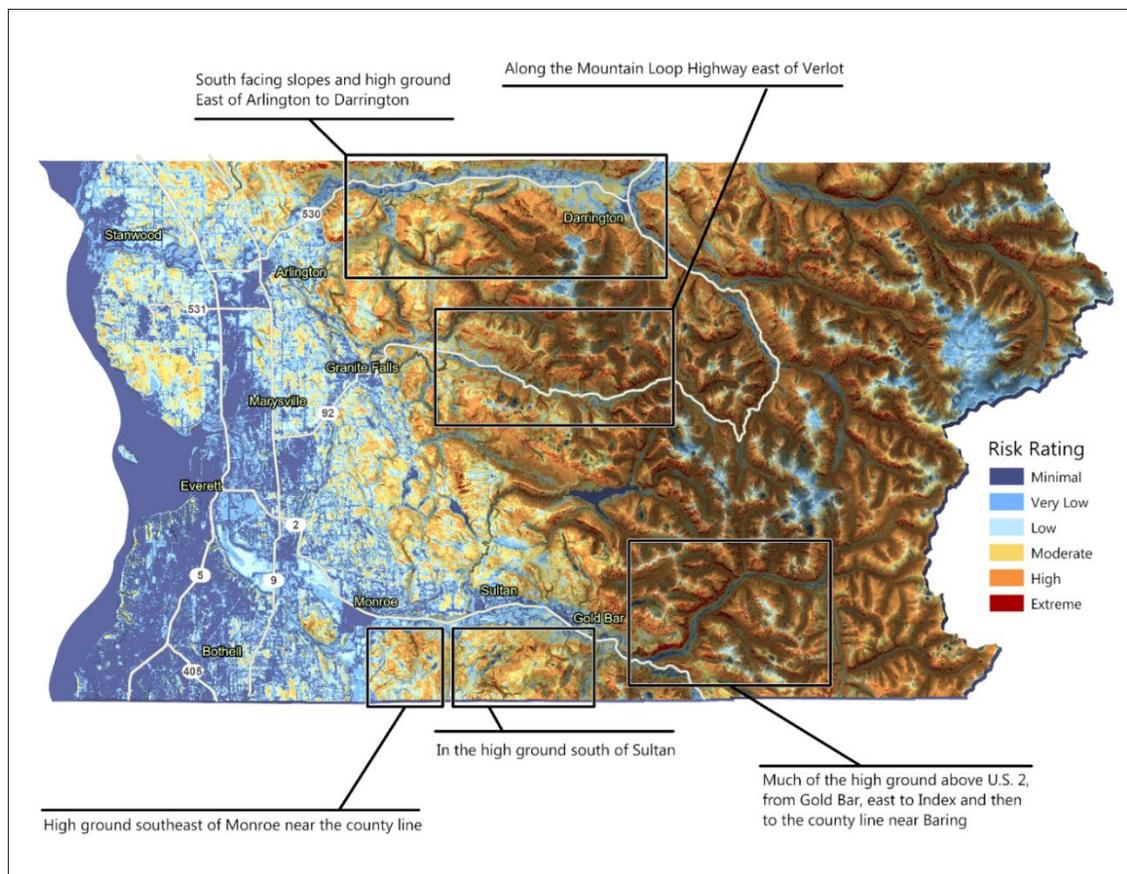
moderately frequent, mixed-severity fires impact the interior valleys up to the western slopes of the Cascades and experience between 20-70% tree mortality. These areas are typically warmer and drier than the areas with infrequent fire history, and experience more lightning strikes. Additionally, fire scar research in Western Oregon has shown that Douglas fir – Western hemlock forests in the Pacific Northwest experienced frequent, small, low-intensity fires, mostly ignited by Indigenous peoples throughout the northwest for land stewardship objectives. However, there is also evidence of less frequent large wildfires that likely coincided with hot, dry weather patterns and periods of fire weather. (Borden, Fitzgerald, Berger, & Groth, 2024)

2.0 Risk and Response

2.1 Wildfire Risk Analysis

Many factors contribute to wildfire risk, and there are no definitive methods for predicting when, where, or how intense a wildfire will be. However, it is possible to determine which areas of Snohomish County are generally more susceptible to wildfires. By borrowing from existing standards and models used by the National Fire Protection Agency and the National Park Service for determining the amount of wildfire risk a particular structure is exposed to, a similar method was used to estimate the relative risk faced by structures in Snohomish County. These models rely on combining factors that contribute to wildfire risk in a given area, such as the amount and type of vegetation, the slope and aspect of the terrain, the presence of nearby water, the number of roads nearby, the presence of barriers to firefighting apparatus, and more. GIS analyses were used to identify areas of the county most at risk, which generally include heavily vegetated slopes in rural areas with southern exposure.

<https://storymaps.arcgis.com/stories/eb98d52ca4fd4be694e0474a6fcfd001>



Map 6 – Wildfire Risk in Snohomish County

2.2 Fuel Sources

Fire is a chemical reaction that requires three components for ignition and spread (heat, oxygen, fuel). The air must have at least 16% oxygen saturation to burn, and drier fuel sources are more likely to ignite and sustain a burn than those with more moisture content. Examples of fuel sources include vegetation such as trees, underbrush and grasses or built materials such as decks, fences and propane tanks. Heat sources

can come from both natural and human-caused sources such as lightning, unextinguished campfires, sparks from mechanical equipment, catalytic converters and target shooting (Northwest Fire Science Consortium, 2025).

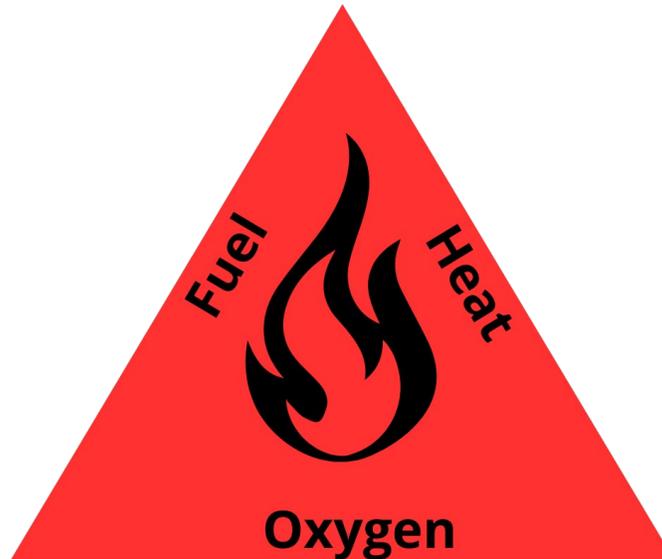


Figure 5 – Components for fire ignition and spread

Conditions that increase fire risk and could impair control include topography, wind direction, south facing slopes, decreased precipitation patterns, declining forest health and buildup of fuels (Northwest Fire Science Consortium, 2025). Topography includes slope, aspect and elevation. Wildfires tend to spread faster uphill as fuels essentially become pre-heated, lowering their moisture content as fire rapidly spreads uphill. South and southwest facing slopes receive more sunlight during the day in the Northern Hemisphere, so these slopes tend to be warmer and have lower moisture content due to the longer sun exposure. Topographic features such as canyons, saddles and passes can funnel air and fire quickly across a wide area, while others such as bedrock outcroppings, streams and roadways can act as natural fire breaks. Strong winds can exacerbate these conditions no matter the wind direction, however the high intensity, large fires on the western slopes of the Cascades have occurred during longer periods of high heat and low precipitation, and been driven by synoptic winds from the east. (Reilly, Matthew J., et. al, 2021)

High elevation forests within Snohomish County receive a higher amount of precipitation in the form of rain and snowpack than the Puget Sound lowlands and tend to contain a higher moisture content later into the year than lower elevation forests. However, a year with low snowpack, or cumulative years with lower than average snowpack can impact the moisture levels of the higher elevation forests, making them more susceptible to ignition from lightning strikes and human-caused heat sources, especially as a fire actively burns up a hill.

Other factors that increase a vegetated area’s potential as a fuel source include forest health, density, and vegetation type. Table 8 identifies both natural and human-made fuel sources, and possible methods to mitigate them:

Fuel or Ignition Source	Issue or Concern	Guidance or Recommendation
Unhealthy Forest	Disease, pest, unhealthy tree densities, or drought	Prescribed treatment by forester to reduce or eliminate unhealthy conditions. Statewide forestry services can be found on the Washington State University Consulting Forester Directory .
Working Forest Fallowed	Operations cease to exist within working forests leading to unhealthy tree densities, dense underbrush and monoculture leaving trees susceptible to disease and fire	Prescribed treatment by forester to reduce or eliminate unhealthy conditions. Statewide forestry services can be found on the Washington State University Consulting Forester Directory .
Unkept Green Spaces	Community green spaces not maintained	HOA or neighborhood effort to limb trees, and reduce invasive or unhealthy understory vegetation and dead vegetative ladder fuels
Extreme Heat and Drought	Drought can weaken trees and understory plants, increasing stress on the forest. An extreme heat event, especially during a drought, can drastically reduce moisture levels in trees and desiccate the understory creating a fuel source for fires.	Thin forests and remove invasive species in understory to reduce competition for water resources. Plant trees from a warmer growing zone in addition to the trees best suited for the site and climate.

Table 8 – Sources of Wildland Fire Fuel, Source: US Fire Administration

Brush and wildland fires can be ignited by many sources. Historically in Washington State, large fires were started during dry, warm periods by lightning strikes. Recently, human activity has led to an increase in fire ignition, but changes in climate, forest health and fuel sources have also contributed to the increase in frequency of wildfires. It is estimated that 85% of wildfires in Washington State are caused by people. (Washington State Department of Natural Resources, 2025) Table 9 shows some of the leading causes of wildfire ignitions, as well as guidance to mitigate them.

Ignition Source	Issue or Concern	Guidance or Recommendation
Campfires	Fires left unattended, fires left to smolder, fires during burn bans	Educate residents and recreationists about campfire safety and burn ban restrictions
Recreation Activities	Sparks from target shooting, explosives used for target shooting, recreational fireworks	Educate residents and recreationists about wildfire risks and burn ban restrictions. Check conditions before lighting

		fireworks and consider safer alternatives
Industry Operations	Spark emitting equipment, hot cables left on ground, lighted debris pile escapes containment	Follow all DNR recommendations during fire weather, as well as the RCWs and WACs listed in the WA DNR Forest Fire Protection Book (Washington State Department of Natural Resources, 2018)
Other Human-caused Ignitions	Cigarette butts, parking hot cars on grass, vehicle parts sparking, debris pile or burn barrel embers	Educate residents about wildfire risks and activities likely to throw sparks or embers during fire weather and red flag warnings

Table 9 – Sources of Wildland Fire Ignition, Source: US Fire Administration

2.3 Assets at Risk

In Snohomish County, the WUI is home to roughly 130,000 people with property valued at more than \$9.7 billion. Assets at risk include homes, businesses and critical infrastructure and facilities. Additionally, many communities have important historic and valued places that may be at risk during a wildfire.

While surrounding vegetation and weather conditions can put a community at risk for wildland fires, there are specific conditions that can put individual structures and properties at risk for ignition. They can include flammable landscaping and privacy features too close or attached to the structure, or construction materials that are not resistant to flames or embers. The following table gives examples of materials and landscaping that can put structures at higher risk for ignition and recommendations from the US Fire Administration (US Fire Administration, 2020).

Structure Component	Features that Increase Risk	Recommendation
Decks	Material stored underneath, flammable construction material attached to structure	Remove and place in closed shed, replace or treat with ignition resistant materials.
Gutters	Leaves and pine needles in gutters	Clean frequently, especially before fire season.
Eaves	Large gaps	Caulk or fill and paint over.
Vents	Open unscreened	Screen with metal screen of about 1/8 inch or replace with baffled or other fire-resistive vents.
Roofs	Poorly maintained, made of wood shakes or other combustible materials	Replace roofs with ignition-resistant designs (e.g. Class A, metal).
Structure Siding	Poorly maintained, made of wood shakes or other combustible materials	Replace siding with ignition-resistant designs (e.g. stucco).

Windows and Doors	Single-pane windows, gaps around doors	Replace windows with double-pane, tempered glass. Replace doors with fire-code rated ones. Seal gaps around windows and doors to keep embers out.
Stucco roofing	No bird stops at the ends	Clean debris such as nests from openings and cement ends or add bird stops.
Landscaping around structure	Overgrown with weeds, dry, dead vegetative matter, large flammable bushes near structure	Pay special attention to make sure the area within the first 5 feet of the home is lean and green, remove open trash receptacles, building materials and trash from next to structure.
Fencing	Flammable construction material attached to structure	Replace at least 5 feet of the flammable fencing that attaches to the home with fire resistant materials.
Pumphouse	Dead vegetation around outside	Remove all flammable material from around the building focusing on the first 5 feet and improving landscaping within 100 feet.
Sheds	Gas cans outside	Store inside locked shed, preferably inside a locker.
Chicken Coops	No door, hay and flammable material inside	Install door.

Table 10 – Structures at risk for ignition, Source: US Fire Administration

During a wildfire, homes and buildings are most likely to ignite from floating embers or spreading ground flames. Embers can enter buildings through uncovered vents, eaves and soffits; flames can spread to buildings through attached wood fencing and decking; and unmaintained landscaping can create a chimney effect spreading fire to gutters and roofs (FEMA, US Fire Administration, 2025). Fire industry experts recommend creating defensible space around homes and buildings, and replacing standard decking, fencing, soffits and screens with more fire-resistant materials (National Fire Protection Association, 2025). When building new homes or remodeling, consider using Class A fire rated building materials and insulation and adding double paned windows and doors. Adding 5 feet of non-vegetative space around the perimeter of the building using rock or concrete, building a patio or using fire resistant composite decking can keep flames from spreading to homes.

When reducing the fire risk on a property, the National Fire Protection Association’s guidance varies according to distance from the home. Figure 6 depicts the National Fire Protection Association’s three “Home Ignition Zones.”

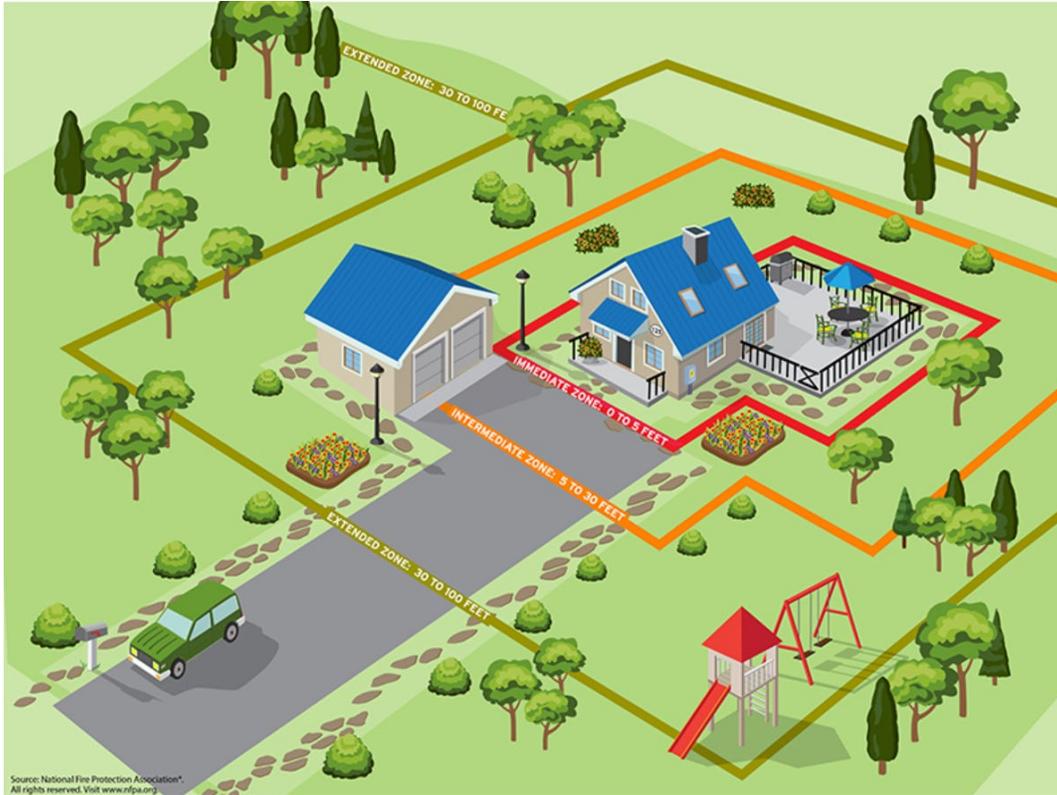


Figure 6 – The Home Ignition Zone, Source: National Fire Protection Association

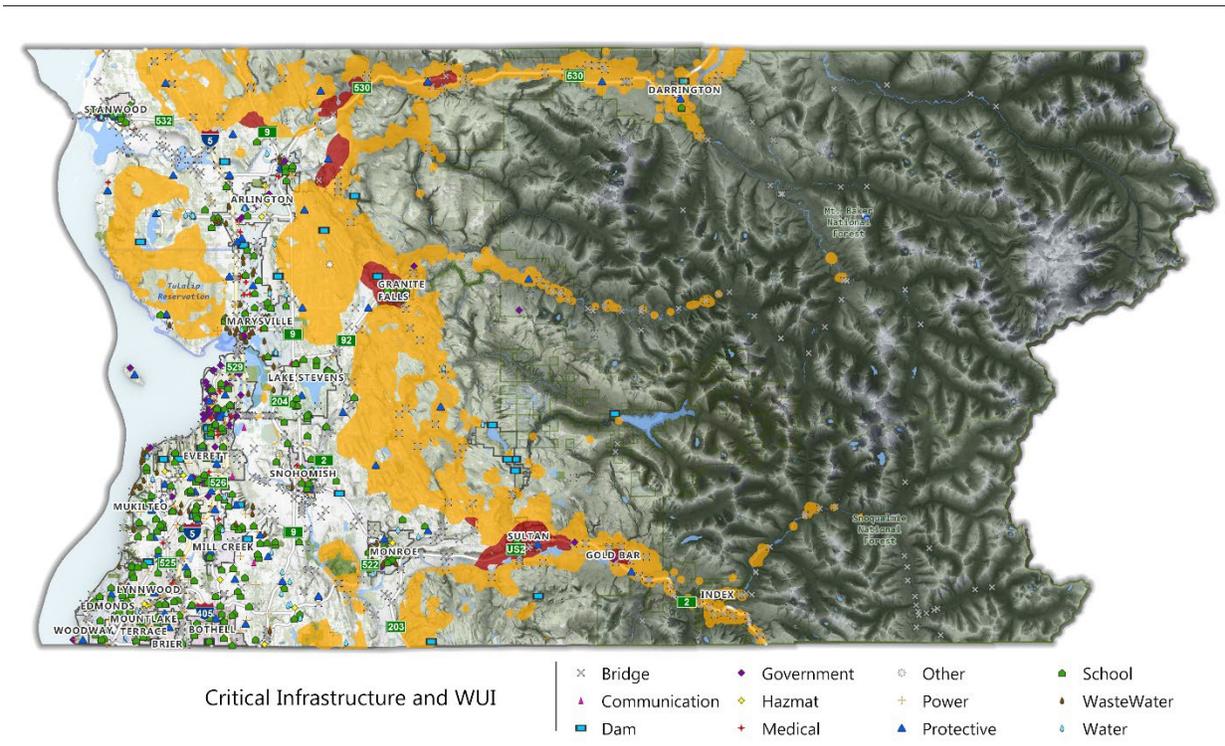
Within the Immediate Zone, 0-5 feet from the building, consider removing all vegetation within a 5-foot perimeter. Keep gutters clean and consider replacing older shingle and shake roofing with metal. Replace standard mesh on vents or uncovered vents with 1/8 inch metal screening and consider replacing wood fencing and decking with composite materials.

In the Intermediate Zone, 5-30 feet from the building, thin branches on large bushes and older hedges. Keep lawns mowed or consider native, low growing lawns and keep trees and bushes spaced or grouped with large gaps between them. Create fire breaks with sidewalks, driveways and other pathways.

In the Extended Zone, 30-100 feet from the building, small forest owners should perform annual forest maintenance to reduce fuel sources around their properties, and neighborhoods may consider work parties or contractors to maintain natural areas around homes. Clean up storm debris and use chipper programs if available in the community. Working forest landowners should consider creating a thinning and harvesting plan with a forester to create healthy forests and maintain recommended tree spacing. Keep petroleum, wood piles and other fuel sources at least 30-50 feet away from buildings or keep them inside a climate-controlled building.

Additional assets at risk in Snohomish County include the critical facilities and infrastructure that support and connect the communities. Wildfires can damage power transmission lines, bridges, community centers, schools and many other structures that are vital to the community. Sometimes, and if possible, fire crews will place defensible positions around these facilities or infrastructure components to protect

them from fire damage, and it is important to identify these locations that may be critical for the community to respond to and recover from a wildfire.



Map 7 – Critical Infrastructure and Key Resources within WUI areas of Snohomish County

2.4 At-Risk Communities and Individuals

Exposure to wildfire smoke can cause serious health effects for everyone, and everyone should take steps to reduce their smoke exposure during wildfire smoke events. Some individuals are especially sensitive to smoke exposure, including people with asthma or other respiratory diseases, cardiovascular disease, children, pregnant people, older adults, low-income households, unsheltered individuals, and outdoor workers (US Environmental Protection Agency, 2025).

Wildfire smoke contains a mixture of very small particles and gases. The composition of wildfire smoke is related to the fire conditions and material burned, which varies between fire events. Some fires predominantly burn vegetation, while others that enter WUI areas can also burn vehicles, structures, or other materials that may cause more severely degraded air quality.

Particulate matter is the principal public health threat from exposure to wildfire smoke (Office of Air Quality Planning and Standards, 2021). Particulate matter is a general term for particles suspended in air, usually a mixture of solid and liquid droplets. The size of the particles impacts their potential health effects. Particles larger than 10 micrometers in diameter do not typically reach the lungs. Particles with diameters less than 10 micrometers (PM10) can be inhaled into the lungs and affect the lungs, heart, and blood vessels. PM2.5 (also known as fine particulate matter) is especially concerning and refers to particles 2.5 micrometers or smaller. While the size of particles from wildfire smoke varies, approximately 90% of total particle mass emitted from wildfires is PM2.5 or smaller (Office of Air Quality Planning and Standards,

2021). According to the Washington State Department of Health, PM2.5 is one of the most important air pollutants of health concern in Washington. Exposure to PM2.5 has been associated with a growing range of health effects. PM2.5 “can be inhaled deep into the lungs, and the smallest particles can cross into the bloodstream and enter systemic circulation, and can exacerbate and lead to many health problems. PM2.5 has been linked to decreased lung function, increased respiratory symptoms including asthma attacks, exacerbation of existing heart disease, nonfatal heart attacks, irregular heartbeat, premature death among people with existing heart and lung conditions, cognitive impacts, adverse birth outcomes, and negative impacts on mental health.” Research has also shown that particulate matter can enter the brain through the blood-brain barrier or directly through the olfactory nerve when inhaled through the nose.

The EPA uses the Air Quality Index (AQI) to communicate air quality conditions to the public. The AQI converts pollutant concentrations (including PM) to a numeric scale from 0 to 500. Higher AQI values correspond to greater levels of air pollution and health concerns. AQI values are reported in six color-coded categories ranging from good to hazardous. For example, AQI values ranging from 101 to 150 are considered unhealthy for sensitive groups. Local AQI conditions and forecasts can be found at [AirNow.gov](https://www.airnow.gov).

Air Quality Index		
Levels of Concern	Values of Index	Description of Air Quality
Good	0 to 50	Air quality is satisfactory, and air pollution poses little or no risk.
Moderate	51 to 100	Air quality is acceptable. However, there may be a risk for some people, particularly those who are unusually sensitive to air pollution.
Unhealthy for Sensitive Groups	101 to 150	Members of sensitive groups may experience health effects. The public is less likely to be affected.
Unhealthy	151 to 200	Some members of the public may experience health effects; members of sensitive groups may experience more serious health effects.
Very Unhealthy	201 to 300	Health alert: The risk of health effects is increased for everyone.
Hazardous	301 and higher	Health warning of emergency conditions: everyone is more likely to be affected.

Table 11 Air Quality Index Levels of Concern
Source: US Environmental Protection Agency (EPA)

The AQI can be used as a guide for residents and government agencies to take action. DOH provides [recommended actions for each AQI category](#). When air quality reaches unhealthy levels (AQI 151-200) everyone should take steps to reduce their exposure. For most residents, it’s best to stay indoors and take steps to keep their indoor air clean. [DOH](#) and [EPA](#) provide recommendations residents can use to keep their indoor air clean, such as filtering air through an HVAC system, [portable air cleaner](#), or DIY filter fan. The EPA also provides recommendations for how to create a [clean air room](#) at home.

Managers of commercial and public buildings should consider ways to keep building occupants safe during wildfire smoke events. For this, the EPA has developed [Best Practices for Improving Indoor Air Quality in Commercial/Public Buildings During Wildland Fire Smoke Events](#). This document provides a concise and

complete source of information on steps that can be taken to reduce the impacts of wildfire smoke in commercial or public buildings. This publication is helpful for commercial/public building managers, building owners, school administrators, local and tribal government agencies, and more. For more technical guidance, HVAC professionals, architects, design engineers, and construction contractors should review ASHRAE Guideline 44-2024, *Protecting Building Occupants from Smoke During Wildfire and Prescribed Burn Events*.

Between 2020 and 2024, people in Snohomish County experienced 21 days of air quality index numbers that were unhealthy for sensitive groups, 14 days of unhealthy air quality for everyone, four days of very unhealthy air quality and one day of hazardous air quality (Puget Sound Clean Air Agency, 2025). Table 7 shows the historical air quality in Snohomish County between 2014 and 2024 as tracked by the US Environmental Protection Agency (EPA).

Historical Air Quality in Snohomish County						
Year	# Days Good	# Days Moderate	# Days Unhealthy for Sensitive Groups	# Days Unhealthy	# Days Very Unhealthy	# Days Hazardous
2024	262	104	0	0	0	0
2023	246	116	2	1	0	0
2022	210	129	13	6	3	1
2021	248	114	3	0	0	0
2020	234	122	3	3	4	0
2019	227	136	1	0	0	0
2018	260	96	5	4	0	0
2017	244	105	13	3	0	0
2016	278	85	3	0	0	0
2015	238	112	10	2	0	0
2014	241	120	4	0	0	0

Table 12 Historical Air Quality in Snohomish County
Source: EPA Air Quality Report

Many people may be at increased risk when exposed to wildfire smoke. It’s important for people to understand their risks and the underlying causes. People with asthma, COPD, or other lung diseases are at risk because smoke exposure can cause breathing difficulties and exacerbate their diseases. People with cardiovascular disease are at risk because smoke exposure can trigger cardiovascular events. Children are at risk because their lungs are still developing, and they breathe more air per pound of body weight than adults. Babies exposed to fine particulate matter in utero are at risk of impaired brain development that can lead to learning and memory problems (Jaiswal & Kumar Singh, 2024). Older adults are at increased risk because they are more likely to have recognized or unrecognized heart and lung conditions, and because important physiological defense mechanisms decline with age (US Environmental Protection Agency, 2025). Individuals with extended exposure, such as outdoor workers and unsheltered individuals, are also at increased risk. Workers and employers should be aware of requirements and safety precautions contained in Washington State Labor and Industries [Wildfire Smoke Rule](#).

The Pacific Northwest, including Snohomish County, has low rates of centralized air conditioning. This means that many buildings are unable to incorporate the high levels of air filtration necessary to mitigate the impacts of particulate matter. In the summer of 2024, the Center For Independence (CFI), in the

Marysville area had participants cancel appointments because they could not mitigate the smoke impacts upon leaving their homes. CFI staff also experienced issues with air quality and trying to mitigate poor air quality conditions inside buildings. During periods of marine air inversion and wildfire smoke conditions, some residents mistook the smoke for marine air and did not take smoke precautions.

The Snohomish County Department of Human Services has found it challenging to locate facilities with MERV13 filters to serve as cleaner air centers. MERV13 or higher rated filters are recommended during wildfire smoke because they can remove at least 50% of the smallest particles from the air. However, not all HVAC systems can accommodate MERV13 filters and HVAC improvements can be costly. In 2025, Snohomish County provided funding to Everett and Sno-Isle libraries to repair and improve their HVAC systems. During extended smoke events, the library locations can provide filtered air and serve as cleaner air centers. Everett libraries have installed MERV13 filters year-round, and Sno-Isle Libraries has MERV13 filters on-hand and ready to deploy in advance of smoke events. There is a need for additional public facilities that can serve as cleaner air centers. Snohomish County Human Services is continuing to seek potential locations. The EPA provides guidance on the identification and preparation of cleaner air centers in [*Appendix B of Wildfire Smoke a Guide for Public Health Officials*](#). When activated, cleaner air centers are listed on the Public Safety Hub. It's important to note that traveling to and from a cleaner air center to seek short-term relief can also have health consequences. While facilities with MERV13 filters provide improved indoor air quality, specific air quality thresholds cannot be guaranteed. Other factors can impact indoor air quality, including how secure the building envelope is, if the entryway has an air-lock style vestibule, how frequent entryways are used, and more. Whether to create a clean room at home or leave for a public cleaner air center will depend on factors that the individual must assess. Accessing a cleaner air center can be difficult for many individuals with medical conditions, mobility challenges, or other access and functional needs. Due in part to these concerns, it's important to also pursue mitigation strategies that help at-risk populations stay safe in their own homes, such as increased access to portable air cleaners and public education on how to create DIY filter fans.

The Bolt Creek Fire began on September 10, 2022, burning 14,820 acres across King and Snohomish Counties. While the majority of the fire burned on US Forest Service land, residents were evacuated in, and into, Snohomish County. Air quality was impaired significantly by smoke from the fire and three other fires burning in the area. Due to the air quality conditions, Snohomish County deployed portable HEPA filters to the Index Elementary School to improve their air filtration. During the fire, transport of vulnerable residents was difficult, and according to CFI, some patients canceled dialysis appointments. Some cancelations were due to smoke conditions and others due to difficulty finding transportation options. Particularly in transportation-constrained mountain areas, long-term road closures for fire response and burn scar hazards also cut people off from services. During the Bolt Creek Fire the Hope Link transportation service, brought a patient from the Skykomish area around the Highway 2 closure to an appointment in Everett, a detour of approximately 150 miles. Wildfire response and recovery training for social services, medical and senior facilities staff could include re-scheduling appointments in towns closer to the client or at another time if possible.

While most households within the Snohomish County WUI have access to privately owned vehicles, many of the most vulnerable do not. During an evacuation, transit services could provide coaches to support evacuations, but the constrained road network and vulnerable nature of the populations needing transportation mean that pre-planning, and pre-education of the public, will be critical for this to go

smoothly. Transit operators and transportation service providers are also concerned that power outages during a fire response could impact communications for transit agencies and make it difficult for emergency services to communicate with smaller route providers. Many smaller transit services, such as those that provide transportation for individuals with access and functional needs, rely on cell service for communication and do not have access to emergency or dispatch radios.

Power shut offs for fire response or ignition prevention, whether planned or not can also have major impacts on individuals in the community. A long-term outage could spoil fresh foods, and prevent people from acquiring critical goods such as gas and food. Individuals who are dependent on medical equipment may have issues keeping their equipment running during a long-term power outage. Internal battery powered generators need to be recharged after 24-72 hours of use and gas generators create noise pollution, require fuel and must be used outdoors. While utilities and some fire agencies keep lists of individuals and facilities with powered medical equipment and may be able to assist with relocating those people or providing back up battery sources, documentation is not complete and is sparse in some areas.



Figure 7 – Gas cans, generators and extension cords ready for distribution to residents with livestock and medical devices in Okanogan County, 2020

2.5 Risks to Infrastructure, Industries and Economies

Snohomish County DEM met with representatives from various Federal, State and Local government agencies, tribes, City mayors, nonprofits, foresters and private timber companies to better understand the potential impacts of wildfires to their businesses and communities. The following sub-sections detail the impacts of wildfire response and recovery.

2.5.1 Tribes, Cities and Fire Agencies

The communities within and adjacent to WUI areas are concerned about the same impacts from wildfires in and near their communities. Some of these areas have experienced nearby large fires within the last five years including the Town of Darrington and the Town of Index. Many of the smaller communities in the foothills are located along a major state or U.S. highway without alternative routes in or out. These foothill communities depend on goods and services in the lowlands, and a long-term highway closure can be a major disruption to business and life. These major highway routes are also the main routes of evacuation during a wildfire, but are typically two lanes with narrow shoulders. An accident can cause a closure and/or major traffic back-ups. During the Bolt Creek Fire in 2022, there were no local alternative routes to Highway 2 east of Index for goods and supplies to arrive in the Skykomish Valley. Suppliers had to use I-90 to the south and drive around to serve the communities along Highway 2.

Critical infrastructure could be at risk as well, including the Darrington and Index water systems which are located adjacent to and within forested lands. Fires can also impact already limited resources in rural areas. This limited access is especially concerning for senior communities such as Warm Beach Senior Community, residents without cars, tourists and visitors. Poor air quality from wildfire smoke also impacts the ability for tribal elders, children and members with medical issues to travel to obtain basic services and supplies.



Figure 8 – Smoke from the Labor Day fires in 2020 impacts the Town of Darrington

Most large fires in and around Snohomish County have occurred on USFS land, in areas difficult for fire ground crews to access. While most fires in the wilderness are not a threat to developed areas, infrastructure and transportation routes can be impacted, and with the right conditions, high winds and embers from those fires could endanger developed areas and rural communities. Schools and other community facilities and programs are supported by DNR forestland harvests, and many of these forest plots are located in areas with higher wildfire risk. A large fire on DNR land or USFS land near Darrington, for example, would impact tourism, logging operations, mills and other natural resource jobs.

While most of the county’s growth is located in the urban areas, there is a steady growth, including a surge of rural cluster residential permits in and around the WUI areas. Many new residents to rural areas are unfamiliar with hazard risks, including wildfires. Development regulations should be monitored and updated around wildfire risks. Planners can consider options such as allowing alternative landscaping screens like concrete walls, limiting vegetation requirements in parking lot and perimeter screens, or requiring composite materials for decking and fencing within 30 feet of structures in WUI areas. Jurisdictions are required to monitor and update critical area codes under the Growth Management Act of Washington, and part of that process should ensure that residents can maintain healthy forest and understory conditions to reduce wildfire risks and inhibit invasive species growth, including in commonly owned open and protected spaces.

Recovery and rebuilding efforts post wildfire create concerns for WUI communities. It is important to understand mitigating the risks of wildfire during the rebuilding effort, including post-fire insurance coverage. Communities and residents should know what impacts fires have on insurance rates and coverage, even for properties untouched by a local wildfire. The environmental impacts of fighting the fire and post-fire hazards can become a long-term issue for a community. Ash and firefighting chemicals can get into groundwater, wells and streams. Household chemicals, hazmat substances, and burnt debris from built and natural environments can pollute the burn zone and areas downstream for a long-term period. Burn scars in urban areas can bring additional environmental impacts to the larger ecosystems as has been observed along the beaches of Los Angeles and surrounding communities.



Figure 9 – Household garbage and burned debris wash up on Long Beach, California in February of 2025.

2.5.2 Land Managers, Logging and Recreation

The biggest impact of wildfire on the logging industry is the economic loss of timber from wildfire damage. Some forest stands are on long harvest rotations and can take many decades to return to their pre-fire timber value. Loss of timber stands from wildfire also impacts logging, milling, trucking and shipping jobs, and according to the USFS can have emotional impacts to foresters and ecologists who may have spent years preparing for a timber harvest, only to lose it to wildfire. Additionally outdoor education programs like those offered by the Glacier Peak Institute (GPI) in Darrington lose access to important areas that connect kids with local ecosystems and conservation jobs. Most importantly, the ecosystems are damaged, impacting biodiversity, air and water quality, and other sustenance activities such as hunting, fishing and foraging.

Wildfire smoke can impact logging crews and other outdoor conservation staff, and red flag warnings can shut down all operations. Industrial Fire Protection Levels are set by DNR during periods of higher fire risk in the summer and consist of four levels of action. Level 1 requires onsite fire equipment and fire watch service, Level 2 limits operational activities to the hours between 8pm and 1pm, Level 3 prohibits some activities altogether while maintaining the Level 2 curfew restrictions on all others, and Level 4 is a complete shutdown of outdoor industrial operations. While most logging crews adhere to red flag warnings and shutdowns, there have been accidents where logging equipment has sparked brush fire after operational hours. A hot downed wire from equipment caused a 60-acre fire on Frailey Mountain in Oso in 2016. Timber designated to fund schools that had already been felled was lost, as was the logging company's equipment.



Figure 10 – A DNR helicopter drops a bucket of water on the Hot Shot fire on Frailey Mountain in 2016.

Many partners in the forestry industry feel harvesting, thinning and prescribed burns face stigma in the Northwest. Educational campaigns about the importance of forest health, modern forest management practices, and restoring recreational access after improving forest roads for timber sales can help curb some of the uncertainty around harvesting and fuels treatment. Additional campaigns around the cultural

history and importance of prescribed burns and reassuring that they are not a primary method of fuel reduction on the west side of the Cascades may reduce the concern around the use.

The USFS owns and operates the Mount Baker-Snoqualmie National Forest which contains most of the forested lands on the east side of the County. These lands are open for various types of recreation including motorized and non-motorized as well as contained and back-country camping options. While USFS timber sales and cuts do not usually occur in WUI areas due to their remote locations, they do improve road conditions and clear slash within 200 ft of the roadways. The USFS is also updating the Northwest Forest Plan to prioritize fire resistance and resilience to protect forests and communities, promote economic opportunities for sustainable timber and workforce growth and strengthen the foundation of forest stewardship with modern strategies. (US Forest Service, 2025) Glacier Peak Institute is implementing some of these opportunities on a local level by working with youth and adult crews in a timber presale job program, and educating youth on the connection between conservation, forest health and the timber industry.

Private forest owners take different approaches to allowing public access to their lands. The Pilchuck Tree Farm, for example, manages recreation through a recreation association and does not charge to use the trails, but does ban camping, campfires and e-bikes for fire safety. They keep their roads maintained and most gates open for recreation. These could potentially be used by neighboring properties as alternate evacuation routes, or access for fire crews during a wildfire emergency. Some small fires have occurred for various human-caused reasons on private forest land including the Pilchuck Tree Farm.

Snohomish County Parks manages large areas of forestland throughout the county that provide both passive and active recreation including campgrounds. Many of these were once logged, and replanted at different densities, species mix and with various methods including aerial seeding. As a result, there are locations where the impacts from disease or windstorms could create fuel conditions for fires to spread where fuels have built up on the ground. Within the surrounding communities there are growing concerns about wildfire risks, but some community members remain resistant to timber harvesting and fuel treatments. DNR is facing legal opposition to over half of its Washington Board of Resources 2024 approved timber sales and the USFS is receiving comments in opposition of timber sales and fuels treatment in what are being categorized as “legacy forests” by forest preservation groups. (Lucia, 2024) Collaboration with the community is necessary to identify beneficial ways to reduce fuel loads. One successful example of such collaboration is the Healthy Forests Project, which works with community volunteers to remove invasive species from County forestlands to create a healthy understory (Snohomish County DCNR, 2025).



Figure 11 – Storm damage in a dense stand and white pine rust at Paradise Valley Conservation Area (May 2024)

DNR and USFS also allow recreation on their lands. After a fire burns through a wilderness area, USFS crews perform safety work in burn scar areas including soil stabilization and removing hazard trees. Sometimes the agency needs to close roads to trailheads to do that work which can be unpopular to locals and tourists. Loss of access to trails and forest roads can impact foothill communities like Darrington, Arlington, Gold Bar and Index that have diversified their economies with tourism. Wildfire smoke can also reduce the number of visitors to those communities and limit outdoor activities.

The land managers and conservation groups participating in the Snohomish County CWPP planning effort all agreed that while general fuels treatment on the west side of the Cascades near WUI communities is beneficial, it is not going to save structures or infrastructure from wildfires. Rather, implementing focused defensible space and home hardening techniques is the best way to make homes and properties more resilient to wildfires. DNR and the Snohomish Conservation District (SCD) provide property owner assistance for home hardening and defensible space. DNR uses Firewise and Wildfire Ready Neighbors programs to teach communities how to harden their homes. SCD and Glacier Peak Institute provide a chipping program, and SCD also provides site visits for home and forest health assessments. Both organizations are trying to shift away from grant funded models to a more sustainable funding solution.

Public and private land managers agree that post-storm and post-fire salvage sales would be beneficial to reduce fuels on the ground. The USFS has emergency authority to create salvage sales but has found that there is a negative perception towards salvage sales, as some people may see land managers as benefitting from the wildfire or using the wildfire to log. If the USFS waits for their emergency authority to end post wildfire response, then salvage sales in the burned areas must go through additional environmental

studies before being authorized. Some land managers would like to see the revenue produced from salvage sales go towards wildfire response readiness projects and equipment.

2.5.4 Utilities and Corridors

Snohomish County Public Utility District 1 (SnoPUD) provides power countywide to 377,000 customers and water to 23,500 customers in portions of the county. It has five generation facilities located across the county. Puget Sound Energy (PSE) provides natural gas to 140,000 customers in North Arlington, Gold Bar, Edmonds and along the Snohomish-King County line. While they do not provide power to any customers in Snohomish County, PSE has power transmission lines that traverse the County. Seattle City Light and Bonneville Power (BPA) also have transmission lines running through the county. The City of Everett operates a watershed and water filtration plant in Sultan and maintains two long transmission line corridors with four watermains that run to the City of Everett. The water from this watershed serves 75% of Snohomish County residents through the City of Everett and other water districts.

Washington State Department of Transportation (WSDOT), Snohomish County Public Works, and local jurisdiction public works departments maintain roadway right-of-way corridors throughout the County. County Public Works is responsible for approximately 1,600 miles of county roads, more than 200 bridges, and estimates they serve up to 600,000 road users per year. These agencies are also responsible for updating projects in their corresponding Capital Improvement and Transportation Improvement Plans (CIP and TIP) annually. WSDOT maintains the highways traversing the foothill and mountain valleys, including Highway 2, and the County works with the USFS to maintain the Mountain Loop Highway corridor.



Figure 12 – Transmission lines burned by the Cold Creek Fire in Okanogan County in 2020

While none of the utilities serving Snohomish County saw any infrastructure impacts from the Bolt Creek Fire in 2022, both SnoPUD and PSE shut down power transmission in strategic areas for fire crew response

safety. The BPA transmission corridor was also within the Bolt Creek burn area, but infrastructure was not harmed. Potential fire risks for these utilities include damaged transmission lines, poles, transformers, substations. For water utilities, wildfires can affect more than just infrastructure. Both fire debris and fire retardants can impact water quality in reservoirs, as can debris flows post-fire. Long term power outages due to wildfire damage or response could trigger widespread impacts to customers including lost food, wi-fi and communication outages, cell tower outages, cooling and heating issues and medical device charging.

Roadways closed for fire response will remain so until an Incident Commander determines they can be reopened. Roadway closures can impact evacuation routes during a wildfire, as seen in Lahaina, Hawaii in 2023. They can also increase the response time for emergency services to provide medical assistance or impair public transit's ability to support evacuation efforts. Long-term road closures can delay power restoration efforts, debris removal and residents' overall ability for re-entry. Residents located on the isolated side of long-term road closures face difficulties getting to work, obtaining food and supplies, and receiving medical care with their local providers. Transit services can also be reduced or stopped during long term road closures as the agency providing the service may not be able to drive extended miles to go around long detours.

Barriers to reopening roadways can include debris removal, damage to the roadway surface, safety issues within the rights-of-way, and funding to repair damaged infrastructure. Fire can impact the integrity of road pavement and damage bridges, and large trees and boulders can tumble down fire exposed slopes and damage roadways. During the Bolt Creek Fire, Highway 2 was closed for fire response and several more times in the following weeks for fire activity and for motorist safety after the fire. These closures reduced tourism traffic and commerce through this corridor, which is important to mountain recreation and travel between western and central Washington cities.

Utilities and roadway maintenance divisions can take steps to mitigate against fire ignition and spread. Keeping vegetation maintained within rights-of-way and utility corridors is important to reduce ignition sources. Hot vehicles, sparks from trailer chains, and downed power lines can spark fires. Discouraging planting and considering ways to remove plants that contain high amounts of flammable oils, like Scotch broom and arborvitae, could help reduce the spread of brush fires within those corridors. Since private roadways are not maintained by State or County road divisions, homeowners and condo associations should consider including right-of-way maintenance in annual fees, especially if their ingress and egress is a one-way-in, one-way-out roadway.



Figure 13 – A SnoPUD tree trimming contractor works on the Highway 530 corridor near Oso

In 2023, House Bill 1032 was passed into law and requires all public and private electrical utilities adopt a wildfire mitigation plan. Most electrical utilities, including SnoPUD and PSE have developed Public Safety Power Shutoff plans (PSPS) as a way to reduce the risk of wildfire ignition during red flag warnings, and other periods of weather with higher fire risks. These are planned outages that will only be implemented during high fire weather risks. The SnoPUD PSPS outages will not impact widespread areas, but will be targeted in areas identified with high risk for ignition. The duration of these planned outages can vary, and power will be restored when SnoPUD crews have inspected and repaired any damaged equipment or lines, or when it is safe to do so according to the weather factors (SnoPUD, 2025).

The City of Everett, SnoPUD and PSE are all investing in improving infrastructure to be more resilient to wildfires including installing smart meters and increasing the capacity and automation of the power grid. Staff from PSE and SnoPUD also attend utility working groups that focus on wildfire risks and risk reduction strategies.

2.5.5 Community Values at Risk

A wildfire in the Darrington area could significantly impact the Sauk-Suiattle Tribe and the town of Darrington. Past wildfires have threatened the tribal cemetery and other unmarked culturally important sites. While no wildfires have impacted the Stillaguamish or Tulalip Tribes' critical facilities or reservations, both have important cultural and historic locations throughout the county forestlands and foothills.

Acknowledging cultural and historic character of towns is also important when rebuilding post fire. Historic lot sizes and zoning should be taken under consideration when rebuilding as requiring larger lot sizes or setbacks could significantly impact the ability for a small town without a sewer system like Darrington or Index to rebuild. Losing a neighborhood, business district, historic place or a section of town would be economically and emotionally distressing to a local community. Across the county, there are numerous historic sites in or abutting forested areas. Downtown Historic Snohomish sits on the edge of open fields

and forestland, a historic lighthouse sits at the bottom of a forested gulch in Mukilteo, and USFS buildings and structures over 100 years old sit within forestlands above and within the Skykomish, Stillaguamish and Sauk river valleys.

The environmental and emotional impacts from a wildfire can be devastating. Communities in the foothills and mountain valleys depend on the resources for jobs and the landscape for tourism. Losing a community and becoming isolated by long term road closures can also cause negative social impacts including the closure of businesses, long term relocation or loss of residents, and the inability to obtain basic goods and services. Tourism in some of these locations may take decades to return depending on the size and location of the wildfire.



Figure 14 – Tour boats remain unused and moored mid-afternoon in Lahaina post-fire, October 2024

2.6 Post-Fire Risks

There are several risks to consider after a wildfire occurs in or near a community. After the Bolt Creek Fire, a team of USGS geologists formed a Burned Area Emergency Response (BAER) team to assess the burn scar area for topography, vegetation and soils, and included their findings in a Wildfire-Associated Landslide Emergency Alert Team report. According to the report for the Bolt Creek Fire, nine areas were identified as drainages where debris flows or flash floods could impact property or infrastructure. Of those nine drainage areas, five were identified as high risk, where debris flows or flash floods could impact trails, campgrounds, US Highway 2 or BPA transmission lines. (Mickelson & Allen, 2022) BAER teams are sponsored at the Federal level and work on Federal Lands like the Mount Baker-Snoqualmie National Forest, where most of the Bolt Creek Fire occurred. There is currently no equivalent team or sponsorship at the state or local level to assess a burn scar area on state, local or private properties.



Figure 15 – A debris flow damages a structure and property in 2014 after the Carlton Complex Fires,

Source: Brent Bower, National Weather Service Seattle

It is important to monitor burn scar areas and drainages where post-fire debris flows and flash floods could occur, especially where they can impact recreation areas, properties or infrastructure. Notifying the public and industries when there are higher risks for these events, such as during periods of high precipitation is also vital. An additional post-fire risk to consider within the slopes of the Cascades is increased avalanche risk in burn scar areas. Historians believe that previous wildfires sparked by trains may have added to the risk of the deadly Wellington Avalanche that occurred in 1910, just south of the Snohomish County boundary line. (Lange, 2003) Public land managers should work with local tribes and consider the historic use of lands and fire management by Indigenous peoples when developing reforestation plans both post-timber harvest and post-fire. If an area was historically burned to maintain a meadow for wild harvesting or hunting, the land manager may want to enter a memorandum of understanding or other contract to maintain that area for tribal use and maintenance. Additionally, recreation groups should also be consulted after a harvest or fire to develop a restoration and trail plan that considers historic use of the land. These groups could also be contracted to restore the trail systems and for replanting.



Figure 16 – Post-fire conditions within the Bolt Creek Fire perimeter

2.7 Preparedness Survey results

To better understand the needs, concerns, and preparedness levels of Snohomish County residents relating to wildfire, Snohomish County DEM conducted a countywide public survey from July 26 through November 16, 2024. The survey featured questions to assess household and structural preparedness, perceived wildfire risk, community and cultural values, and perspective about the environmental impacts from wildfire mitigation projects such as forest thinning and fuels reduction.

Created through ArcGIS Survey123, the survey provided an online platform to geographically locate respondents and assess data on a community-wide level. Additionally, the build-out of the survey through this tool provided information to local fire protection agencies about the communities they serve. With support from CWPP partners, the survey was widely publicized through community events, social media, newsletters, flyers, and local media outlets. The survey received responses from 1,110 participants, reflecting a strong interest in wildfire preparedness within Snohomish County.

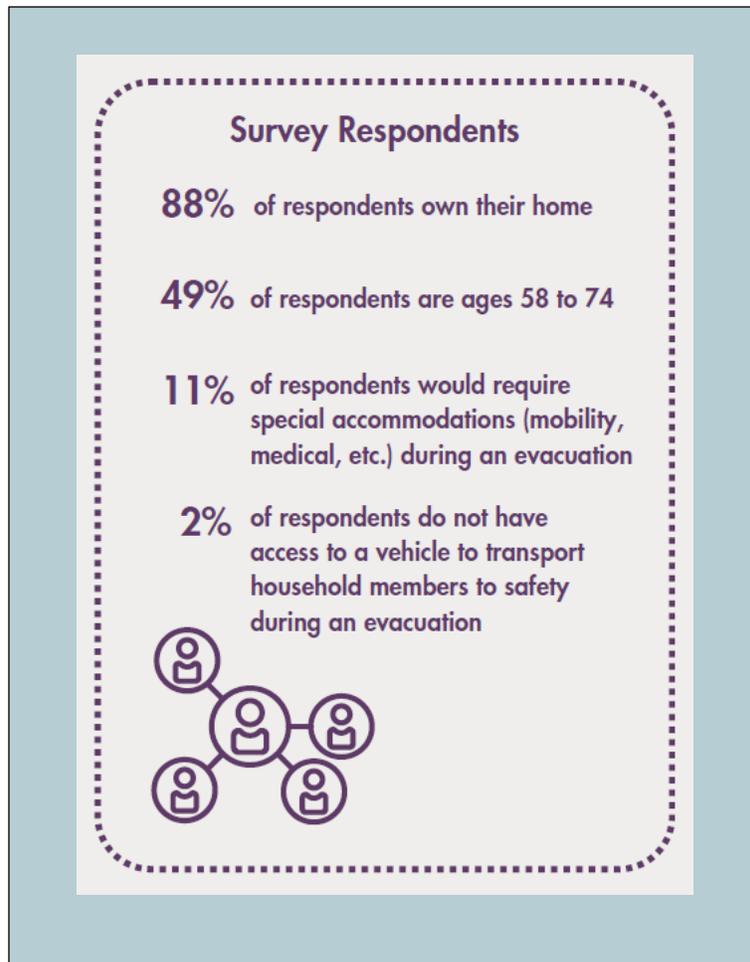


Figure 17 – Demographics of Snohomish County CWPP Public Survey

Survey results confirm residents have strong interest in bolstering community wildfire resiliency. While the survey was anonymous by design, 60% of respondents opted to share their contact information to stay informed of future wildfire outreach and education events. When it comes to wildfire preparedness and mitigation, 76% of survey respondents reported that individuals are responsible, 71% attributed the responsibility to local fire protection agencies, and 69% to local government. Key findings also indicate an important opportunity to develop and deliver public education and build awareness as 74% of respondents are “not all familiar” or “somewhat familiar” with home hardening measures.

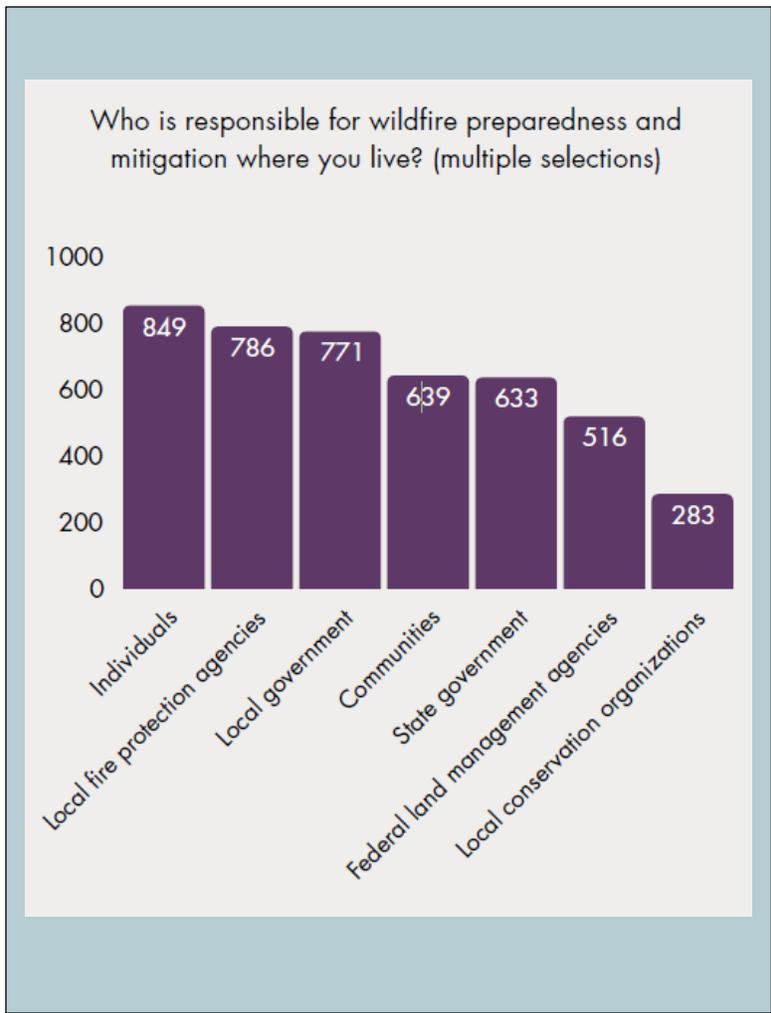


Figure 18 – Preparedness and mitigation survey results, Source Snohomish County DEM Public Survey

A big part of making a community more resilient to wildfires is for individual home and property owners to implement the steps needed to create defensible space and harden homes. Respondents were asked about barriers to implementing defensible space measures in and around their homes and properties. They were also asked what kind of options or incentives would encourage them to begin.

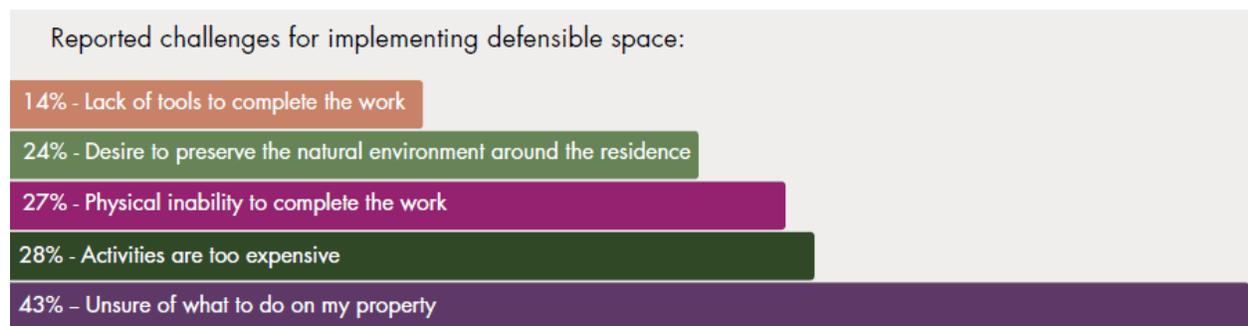


Figure 19 – Challenges to implementing defensible space, Source: Snohomish County DEM Public Survey

According to the survey, 74% of respondents were not at all or only somewhat familiar with how to harden their homes, and 60% were not at all or only somewhat familiar with where to receive updates and information about local wildfire events and evacuations. Local governments and agencies should consider expanding and prioritizing public education and outreach for fire resilience and readiness. Community partners such as the Snohomish Conservation District or WA Department of Natural Resources have site visitation and forest health programs that can further educate community members.



Figure 20 – Incentives to implementing defensible space, Source: Snohomish County DEM Public Survey

Wildfire awareness does seem to be increasing in Snohomish County. Almost 60% of the survey respondents said they are more concerned about the safety of their family, home and assets from a wildfire than they were five years ago. In addition to the safety of human lives and protecting homes, over 80% were concerned about the protection and quality of drinking water supplies during a fire response. Support for wildfire mitigation strategies also seems to be increasing. Fuel reduction projects in the working forests are also seen as beneficial to forest health by most of the people surveyed.

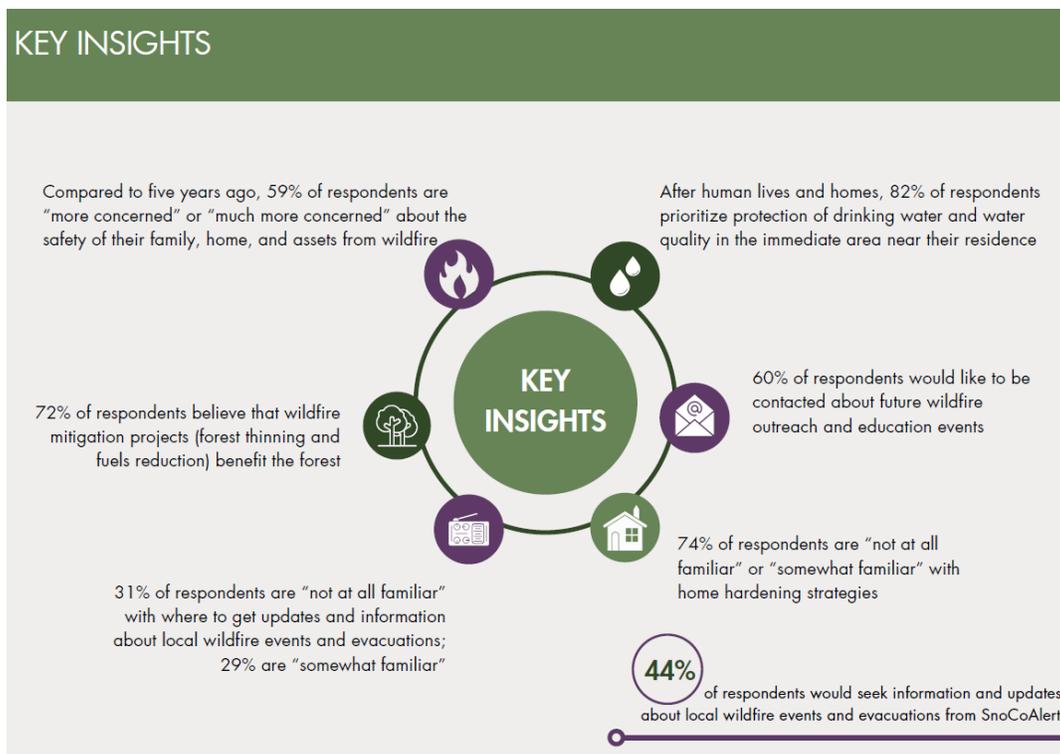


Figure 21 – Key insights from the Snohomish County DEM Public Survey

2.8 Fire Agency Response and Firefighting Capabilities

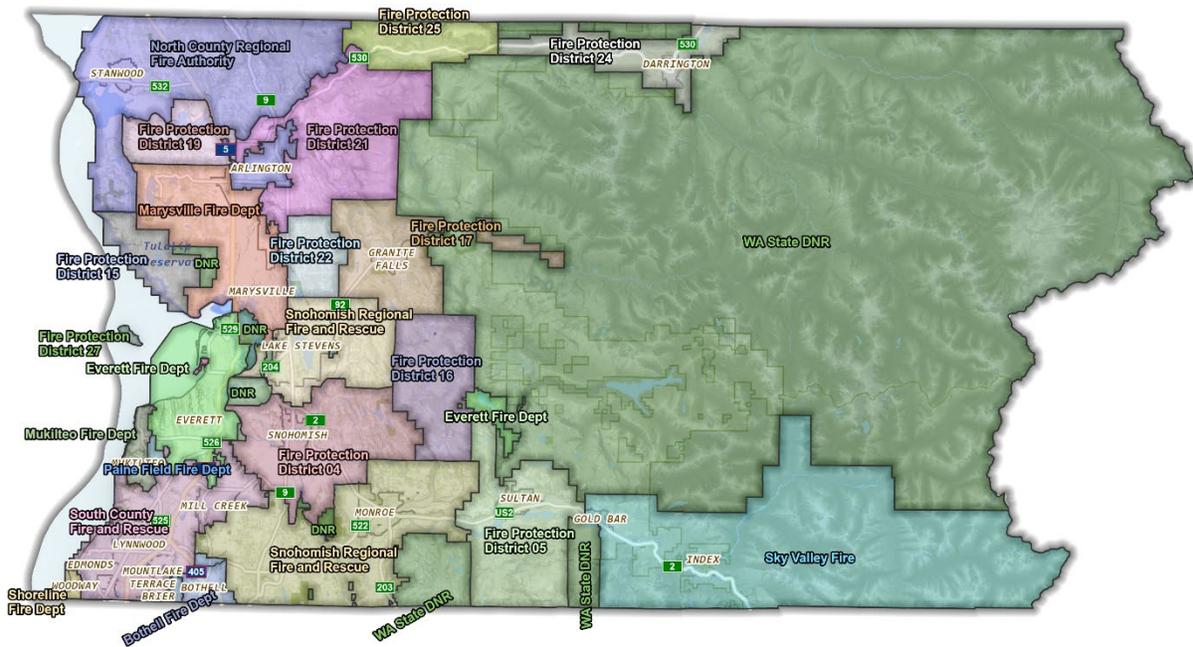
Both vegetation and structural fires are handled by the local fire agency, with Automatic Aid agreements set by the local agencies to trigger assistance from nearby agencies through dispatch when local resources are exceeded. Fire response within the county is coordinated through the County and Regional Coordinators under Fire Defense Agreements which assist local fire agencies with regional and state support once local and county resources are exceeded. These Fire Defense Agreements allow state DNR resources to respond to local brush and vegetation fires, and for local fire agencies to respond to fires on State and Federal lands. This is important, since State and Federal crews are staged regionally and may not be nearby to respond quickly to a vegetation fire on public lands.

If the wildfire exceeds the regional capabilities, then State Mobilization can be requested by the Regional Coordinator and approved by the Chief of the Washington State Patrol. This allows resources from outside the region and other states to deploy and assist the wildfire response. Wildfires require specialized equipment and crews; traditional structure fire resources or municipal water systems are inadequate to the task. Crews must have red card certification to fight a wildland fire, which requires training beyond the basic level. Fire trucks, especially water tenders must be equipped with pumps in addition to their water tanks, as hydrant hook ups are not mobile enough for fast moving wildfires, and most rural locations do not have municipal hydrants.



Figure 22 – A wildland firefighter battles the Bolt Creek Fire in 2022

The Fire Service within Snohomish County consists of 18 fire agencies, as well as State and Federal resources. State and Federal resources may not be staged within Snohomish County depending on priorities and needs of each agency.



Map 8 – Fire District map of Snohomish County

Snohomish County used the inventory system MAPARS to download a 2019 copy of local fire agency deployable assets and requested that agencies update their inventories for the following capability assessment:

Resource	Total County Deployable Assets*
Air Attack Coordinator	2
Air Tankers	0
Bulldozers	0
Helicopters	0
Mobile Communication Units	2
Mobile Kitchens	0
Type 1 Engines	20
Type 2 Engines	0
Type 3 Engines	6
Type 4 Engines	0
Type 5 Engines	4
Type 6 Engines	5
Water Tenders (Tactical)	7

* This is an incomplete dataset showing only 50% of Snohomish County Fire Districts. Data will be updated before plan is approved.

Type 1 Hand Crews	0
Type 3 Hand Crews	0
Type 2 Command Post	1
Type 3 Command Post	1

Table 13 – Fire Agency Wildland Fire Capability Survey

2.9 Evacuation, Sheltering and Reentry

During a wildfire event, residents may need to evacuate to safety. Prior to an evacuation, residents should plan, prepare, and practice leaving their home, workplace, or school when necessary. Residents should opt-in to local emergency notifications, determine primary and alternate evacuation routes, and coordinate practicing evacuations with their household and larger community. Socially vulnerable residents are disproportionately impacted by wildfire and evacuations, and identifying and planning with residents who may need additional assistance, such as elderly or those with disabilities, will help ensure the safety of the entire community.

2.9.1 Alert and Warning

Snohomish County uses a Smart911 system called SnoCoAlerts for its early alert and warning system. During a wildfire response, people within evacuation zones would receive alerts through this system, and those who choose to register with SnoCoAlerts can also be notified of emergency alerts impacting their community even if they are not present in that location. Registering for this system can also help provide critical information such as emergency contacts, medical conditions and mobility assistance to first responders during an emergency response. The Snohomish County Public Safety Hub will display any active evacuation alerts, so residents can always check there for current information during an evolving incident.

Evacuation alerts in Snohomish County follow the Level 1/**Ready**, Level 2/**Set**, Level 3/**Go** model. This model will be used whether the evacuation is due to wildfire, flooding, hazardous materials or any other threats when it is critical to get away from danger fast. Here’s an excerpt depicting how they work:

- Level 1/READY:
 - Get ready to leave; it may become necessary. Also known as Level 1, this alert occurs when there is no immediate danger to people or to property, but a threat may be headed that way. This is the time for people to scout evacuation routes, to firm up their personal plans for leaving the area, to gather up necessities, to check on neighbors who may need help and to take steps to keep pets and livestock safe.
 - Key steps:
 - Sign up for SnoCoAlerts if you haven’t already.
 - Monitor news, weather and other reports.
- Level 2/SET:
 - Get set to leave with little notice. Also known as Level 2, this alert occurs when there is significant risk to an area and a high probability there will be need to evacuate. People should prepare to go at any time. First responders may begin making door-to-door notifications. Those who may take longer, including older people and those living with disabilities, should leave now. It’s also time to move livestock.
 - Key steps:

- Make sure you are signed up for SnoCoAlerts and that your information is up to date.
 - Keep your phone on and charged.
 - Pack up important papers, pets and prescriptions.
 - Assemble your emergency kit, including portable radio and flashlight.
- Level 3/GO!
 - Also known as Level 3. Evacuate. There is immediate danger. People need to load up their families and pets and leave using pre-designated routes.
 - Key steps:
 - Leave now!
 - Follow emergency instructions from any first responders you encounter.
 - Drive with your headlights on.
 - Once in a safe location, check in with family and friends to let them know your location.

 **WHEN IT IS TIME TO MOVE, REMEMBER
READY, SET, GO!** 

Evacuation alerts in Snohomish County follow the Ready, Set, Go! model. They are used when it may be critical to get away from danger fast. Here's how they work:

READY

Get ready to leave; it may become necessary. Also known as Level 1, this alert occurs when there is no immediate danger to people or to property but a threat may be headed that way. This is the time for people to scout evacuation routes, to firm up their personal plans for leaving the area, to gather up necessities, to check on neighbors who may need help and to take steps to keep pets and livestock safe.



KEY STEPS



- Sign up for SnoCoAlerts if you haven't already:
<https://snocoalerts.snoco.org>
- Monitor news, weather and other reports.

SET

Get set to leave with little notice. Also known as Level 2, this alert occurs when there is significant risk to an area and a high probability there will be need to evacuate. People should prepare to go at any time. First responders may begin making door-to-door notifications. Those who may take longer, including older people and those living with disabilities, should leave now. It's also time to move livestock.



KEY STEPS



- Make sure you are signed up for SnoCoAlerts and that your information is up to date.
- Keep your phone on and charged.
- Pack up important papers, pets and prescriptions.
- Assemble your emergency kit, including portable radio and flashlight.

GO!

Also known as Level 3. Evacuate. There is immediate danger. People need to load up their families and pets and leave using pre-designated routes.



KEY STEPS

- Leave now!
- Follow emergency instructions from any first responders you encounter.
- Drive with your headlights on.
- Once in a safe location, check in with family and friends to let them know your location.



Figure 23 – Ready, Set, Go public outreach material

Most respondents to the Preparedness Survey expect to receive updates and information about local wildfires and evacuations from the public alerts and warning systems. The County promotes SnoCoAlerts at outreach events throughout the year, on social media and on DEM’s website. SnoCoAlerts outreach commercials are also recorded and played on local radio station KXA, FM 101.1.

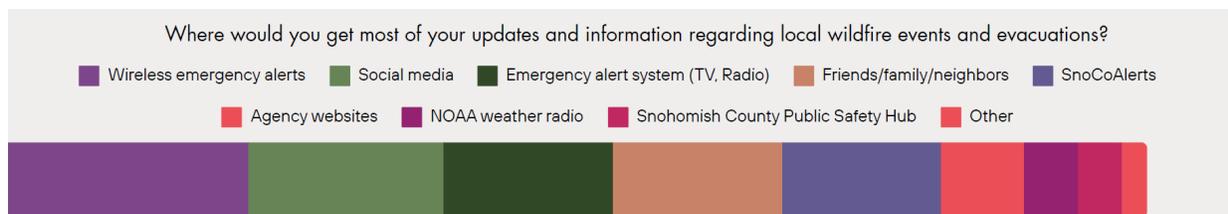


Figure 24 – Expected sources of evacuation information, Source: Snohomish County DEM Public Survey

2.9.2 Evacuation and Route Identification

Detailed evacuation operations and procedures are captured in the Snohomish County Comprehensive Emergency Management Plan Evacuation and Shelter in Place annex. When possible, the Incident Commander or Unified Command (IC/UC) of a wildfire response will organize evacuations by zones to prioritize the movement of the most at-risk areas. Zones also aid in decision-making and resource management by helping responders estimate clearance times, shelter demand, transportation requirements, participation rates, lead and lag times, and additional community support requirements for people with access or functional needs (AFN). Zones should be based on recognizable landmarks or boundaries, such as known neighborhoods and major roads, so that they are clearly recognized by residents and visitors to reduce confusion during an evacuation. Zone information will be communicated to the public during emergencies via the public alert and warning system (SnoCoAlerts), internet, phone service, and broadcast radio.

The IC/UC will communicate evacuation zones and routes to Sno911 for public alert and warning. Sno911 will notify the Snohomish County Emergency Operations Center (SCEOC) so it can coordinate with impacted jurisdictions and provide alerting support if needed. The SCEOC will establish a Joint Information Center (JIC) and once available, the JIC will post a map of the evacuation zones to the Snohomish County Public Safety Hub and provide evacuation information to the public via social media and traditional media sources. On-scene law enforcement and fire agencies will assist the IC/UC with local public alerting such as door-to-door notifications or bullhorn announcements. The on-scene Incident Command Post (ICP) is responsible for sharing the evacuation boundaries and status with the SCEOC and other response partners. WSDOT and Public Works will support fire response and evacuation efforts with traffic control, debris removal along roadways and rights-of-way, and monitoring traffic flow and conditions along evacuation routes. They will also assist the ICP with road closures to active fire zones.

WSDOT is responsible for traffic management along state highways, including road closure and contraflow. WSDOT and Washington State Patrol will consult with Snohomish County Public Works, Community Transit, the SCEOC, IC/UC, Snohomish County Sheriff’s Office and local law enforcement agencies, local fire agencies, and others as necessary when considering road closures and contraflow along States routes through Snohomish County. For other roads, local and county Public Works along with the Snohomish County Sheriff’s Office and local law enforcement agencies, are responsible for traffic management, including road closure and contraflow. Washington State Patrol will assist as requested. For any county

roads, contraflow should be determined between Snohomish County Public Works, Snohomish County Sheriff's Office, local fire agencies, the SCEOC, and others as necessary.

Representatives from Snohomish County Human Services in the SCEOC will work with the Red Cross and other community organizations to advise on shelter locations and operations. Once designated, emergency shelter locations will also be posted on the Public Safety Hub. A Point-to-Point evacuation strategy will be the default model for the county, where evacuees will go directly to a shelter if they have no other safe place to go. Evacuees are not required to go to shelters, but should be encouraged to check-in as safe during shelter entry or at a check-in point if available before heading to their destination. People can also check-in as safe on various social media sites to notify their friends and family of their status. Representatives from fire agencies and Public Health will advise on triage points and operations at designated locations or shelters. Fire support personnel in the SCEOC will also help establish routes for responders and routes to hospitals and other medical facilities.



Figure 25 – A reader board displays fire information for evacuees and responders at the Evergreen State Fair Park during the Bolt Creek Fire in 2022

People within Level 3/Go evacuation zones should be prepared to use their own transportation to evacuate from a wildfire. Evacuation routes and road closures will be communicated to the public, but all transportation options should be considered when evacuating during a fire. Communities and neighborhoods should consider local evacuation plans that include mapping and planning for vulnerable residents or visitors who may not have access to a vehicle, or who have mobility or medical needs. The SCEOC will work with public transit agencies to support fire agencies in evacuation efforts of individuals without vehicles or with other access and functional needs. Outreach efforts should encourage neighbors to assist neighbors with evacuation needs whenever possible.

During a fast-moving wildfire, people should consider their safety if their evacuation route is blocked by an accident or other reason. If there is a need to abandon a vehicle to run to safety, drivers should pull the vehicle off the road as best as possible to leave a route open to responders after the fire has moved through. If a route from a neighborhood or home is blocked by fire activity or road damage, other methods of transportation such as off-road vehicles (ORVs) or even bicycles should be considered. If a one way in, one way out route for an evacuating community is blocked, households and neighborhoods should consider refuges of last resort, or safe places to gather until it is safe to leave or rescue arrives such as large rock areas, a riverbed, large non-vegetated open spaces or other natural fire break features.

If part of a personal or community evacuation plan includes using forest roads or private roadways, the routes should be driven regularly to ensure there are no locked gates or infrastructure damage that would impair or prevent evacuation. In the need of an alternative evacuation route for a community, fire agencies will likely gain access through any gates, but people should not expect them to be open during a fast-moving fire or available to the public for evacuation use unless otherwise specified. Utilities with existing road closures for system restoration repairs should re-prioritize evacuation needs and re-open closed roadways if possible. Some alternative evacuation routes were blocked by power restoration efforts during the Lahaina fire evacuations in 2023 (Associated Press, 2025). It is important for law enforcement, fire agencies and utilities to coordinate ICP and/or SCEOC level to re-prioritize crews and shut off power to areas where roads may be closed for downed lines in the right-of-way to prevent traffic bottlenecks.

People with pets should include them in their personal evacuation plans. Preparing pets for evacuation should include having a carrier, a leash, pet food and medications accessible and ready to pack. Emergency shelters in Washington State are required to accept evacuees with pets (Washington State Legislature, 2025). Representatives from the Department of Conservation and Natural Resources (DCNR) will coordinate with Snohomish County Animal Services and other support partners in the SCEOC to advise and assist with pet procedures at shelters in addition to establishing and operating livestock shelter locations.

Livestock owners should also consider their animals in evacuation plans. Livestock shelters will be designated by Snohomish County and posted to the Public Safety Hub. If possible, livestock owners should practice loading animals into trailers and consider methods of last resort for fast moving wildfires such as cutting fences and painting identification marks on animals if owners do not have a trailer or enough space in a trailer for all of the animals.

Additional evacuation considerations include:

Time of Year

Populations in the mountains and along the coast vary according to seasonal recreational activities. Evacuation guidance should be clear to populations who are not familiar with the area. Additionally, traditional mass communications methods might not reach hikers, campers, skiers, and others in isolated areas.

Time of Day

Evacuations which occur during the day and during the school year should account for the additional movement, communications needs, and reunification of school-aged children and faculty. When

evacuation zones include schools that are in session, the JIS should coordinate public messaging with the affected school district(s). No-notice evacuations that occur during the workday may result in an increased number of people without personal transport, whether because a household’s only vehicles or only drivers are at work. People may attempt to head into the evacuation zone to get their family and pets out.

Shadow Evacuees

An additional consideration is potential “shadow evacuees”, also referred to as spontaneous evacuees. These are evacuees who will evacuate regardless of directives by public officials due to the perceived risk of danger.

2.9.3 Reunification and Reentry

In the event of a large evacuation, the County may may establish a voluntary check-in procedure that enables evacuees to mark themselves as “safe” after they have evacuated from harm’s way. If the SCEOC or a supporting agency is requested to assist in evacuation efforts for an institution such as a school or nursing home, the agency responsible for the evacuation assistance may document and track evacuees from their evacuation point to their final destinations. A reunification center will be established by the responsible agency for schools or other institutional evacuations.

The County uses a phased approach to re-entry, summarized in the following table. This approach allows only emergency response personnel access to impacted areas until hazardous conditions have been mitigated or abated for the public. Then, the coordinated transportation of evacuees back into the community will begin once the IC/UC determines that the area is sufficiently stable. Depending on the site and safety conditions, some residents may return before others, or be allowed only temporary access to inspect their homes. In instances where evacuees are unable to return to their communities, this phase involves the relocation of individuals to new host areas. Evacuation facilities may be used as venues to share re-entry or re-location information in accordance with established mass care plans.

Status to Public	Re-entry Phases
RED-CLOSED	<ul style="list-style-type: none"> Phase 1: Re-Entry Task Forces comprised of state and local response agencies, as well as certain key utility providers, can enter the impacted area and contain life-threatening hazards.
RED - CLOSED	<ul style="list-style-type: none"> Phase 2: Search and Rescue, emergency medical services, fire suppression, hazardous material control, preliminary damage assessment, essential relief staff, and immediate utility restoration to critical medical facilities.
RED - CLOSED	<ul style="list-style-type: none"> Phase 3: Public and private sector to support the reestablishment of critical infrastructure systems, including petroleum and food distributors, non-emergency medical facilities (such as dialysis centers), pharmaceutical providers, members of the media, medical facility support staff, and local government essential workers.
GREEN - OPEN	<ul style="list-style-type: none"> Phase 4: Allows the public to access all or portions of the impacted area, as determined by local officials. Access may be restricted to daylight hours as the recovery process continues.

Table 14 – Re-Entry Phases, Source: Snohomish County Evacuation and Shelter-in-place annex

The IC/UC will guide the transition from Phase 1 to Phase 2 and from Phase 2 to Phase 3. The transition from Phase 3 to Phase 4 may be guided by the IC/UC, or by the executive head of the local government. When determining whether to begin the re-entry phase, at a minimum, the following conditions should be met:

- The stability of critical infrastructure functions,
- Minimal health and safety threats,
- Sufficient systems and services to support viable, resilient communities,
- Initial response processes, such as damage assessment and debris clearing are far enough along that they won't interfere with the return of residents,
- Restoration of supply chains to the impacted area, and
- Provision of fatality management services in the impacted areas.

When planning for re-entry, the SCEOC will support the decision makers in coordinating with partners, including:

- Law Enforcement, to ensure safety and security of those re-entering,
- The Joint Information Center, to ensure that re-entry instructions are appropriately communicated,
- The local government,
- Partner agencies in charge of mass care, animals in disasters, debris clearance, and disaster recovery in accordance with Snohomish County's Comprehensive Emergency Management Plan, and
- Whole-of-community partners.

The SCEOC will work closely with host communities and the State to coordinate re-entry timelines. Coordination should also occur with whole community partners, including partners supporting AFN populations who may require additional transportation assistance, housing inspections, and re-entry support to ensure their health and safety. The State's Business Re-Entry Program can be referenced for information regarding permits for critical infrastructure owners and operators and businesses to gain access to impacted infrastructure. Representatives from DCNR and Animal Services at the SCEOC will coordinate with non-government organizations and other volunteer organizations to ensure animal return efforts are timed to align with owner re-entry and animal safety.

2.10 Recovery

Impacts that may occur after a wildfire include difficulties rebuilding structures or infrastructure within the community affected by the fire. While federal Individual Assistance and Public Assistance program funding may be available after a wildfire disaster is declared, bottlenecks to rebuilding may include lack of

professionals available for environmental and geotechnical surveys, lengthy permitting review times, and old land use and development codes that may not reduce the community's risk to a future wildfire.

Recent fires in Maldin, WA, Paradise, CA, Lahaina, HI and Pacific Palisades, CA have been devastating to those communities and clean-up and rebuilding have hit unintentional roadblocks. To help the post fire rebuilding effort, residential permits could be streamlined with master planning environmental and development permitting on a neighborhood or small community level. Homeowners could be encouraged to build back to current regulation setbacks and with fire resilient construction materials by providing fixed term tax incentives or rebates. Other roadblocks to residents returning include ineligible insurance claims for the damages, affordable insurance coverage for the rebuilt structure, neighbor disputes and even gentrification.



Figure 26 – A foundation lies in ruins after the Cold Creek Fire in Okanogan County in 2020.

Streamlining residential permitting allows municipalities to dedicate staff to both residential and business permitting. Having the municipality take on the burden of initial environmental checklists, clearing and grading permits, allows homeowners to focus their funds on rebuilding their residences, and could be an incentive for them to do so quickly. It is important to bring back jobs and visitors, but also have a place for residents and workers to live so that the full community can reenter, rebuild and revive. The main transportation route to the Town of Darrington was disrupted for six months after the SR 530 Landslide, and according to the Mayor of Darrington, many people who lost access to their jobs and did not have strong ties to the community left and have not returned.

Losing transportation routes, homes and businesses from a fire would have an even bigger impact to local communities, and even long-term residents may not return if it is not timely, affordable or feasible for them to do so. Larger municipalities may consider assisting rural communities with post fire permitting efforts since many smaller communities do not have the resources to take on such a large task.

Additionally, some communities may find difficulty acquiring affordable insurance after a fire has impacted a location, and current insurance policies may not cover the costs of rebuilding up to new code standards or insurance mitigation requirements.

3.0 Mitigation

Community Wildfire Protection Plan Mitigation Strategies have been identified by Snohomish County Department of Emergency Management planning partners as actions that can be taken to reduce the risks from wildfires. Planning Partners will work collaboratively over the next five years to identify community resilience building funding sources that can be used to implement the identified strategies. Mitigation Strategy progress will be evaluated annually by a Local Coordination Group (see Appendix A for more information).

3.1 Fuels Reduction and Management

Item #	Mitigation Strategy	Goal(s)	Planning Partners
FR-1	Support and find ways to expand funding for community chipping programs including equipment, staffing and working with local contractors to support small businesses. Provide training and funding for expanding chipper day capacity, locations, and assisting community members with barriers to participate (e.g. limited mobility). Provide community outreach highlighting the defensible space benefits of chipping and ways to participate.	1, 3	Snohomish Conservation District (SCD), Local Fire Agencies, Local Communities
FR-2	Support and continue to fund noxious weed management along rights-of-way and utility corridors, vegetation management and maintenance along evacuation routes in heavily wooded areas, and prioritize and find funding to clear overhead large trees and other hazards that could block critical egress routes like Highway 2.	1, 3, 4	Snohomish County Public Works (DPW), DCNR, Washington State Department Of Transportation (WSDOT), Local Community Public Works
FR-3	Continue to support and expand SnoPUD contracts for tree trimming projects	1	SnoPUD
FR-4	Prioritize fuels reduction and maintenance on county-owned park/land to use as model for replication and informing engaged communities. Consider a contract with Team Rubicon or other volunteer agencies to assist County crews with conducting fuels reduction on county properties, including: Centennial Trail corridor, Meadowdale Beach Park*, Lord Hill Park*, Paradise Valley Conservation Area (PVCA)*, Flowing Lake Park, Kayak Point Park*, and Robe Canyon Park (*Park is part of the Healthy Forest Program)	3	Snohomish County Department of Conservation and Recreation (DCNR), SCD

Item #	Mitigation Strategy	Goal(s)	Planning Partners
FR-5	Increase capacity and qualifications for prescribed burns by engaging with tribes and other stakeholders to evaluate prescribed burns, where and when appropriate, as a valid fuel management tool.. Support coordinating with WA Department of Natural Resources (DNR) to identify potential locations for small pilot studies, and allow prescribed burns within the state to be training opportunities for local fire agencies and tribes.	3	Snohomish County Department of Emergency Management (DEM), Local Tribes, Local Communities, Local Fire Agencies, Washington State Department of Natural Resources (DNR)
FR-6	Work with local powerline companies to prioritize the maintenance of rights-of-way especially along evacuation corridors and buffers	3	SnoPUD, Puget Sound Energy (PSE), SnoCo Public Works, SnoCo Sheriff's Office (SCSO), Local Fire Agencies, DEM, Local Communities
FR-7	Replace potentially hazardous expulsion fuses with single-phase reclosers. Enable remote reconfiguration of utility protection systems in response to wildfire risk conditions, reducing response time and increasing safety of utility workers. Implement the Secure Modern Automated and Reliable Technology (SnoSMART) program to increase grid resiliency while seeking potential future grants by SnoPUD for undergrounding.	3, 4	SnoPUD
FR-8	Maintain trails, enforce trail rules and regulations including prohibition of motorized vehicle use. Enforce burn bans in campgrounds.	5	DCNR, DNR, USFS, Local Communities, Recreation groups

Table 15 – Fuels Reduction and Mitigation Strategies

3.2 Planning and Data Analysis

Item #	Mitigation Strategy	Goal(s)	Planning Partners
PA-1	Conduct a Snohomish County forest health analysis on County managed lands, including stand unit mapping and treatment prescriptions for each County forested property. Prioritize those at higher risk for forest health complications, such as lands which were harvested relatively recently or were previously owned by a timber company and exist either as a monoculture of Douglas-fir or even-aged alder stands. – PVCA, Lord Hill, Corcoran, etc.	3	DCNR, SCD, Recreation Groups

Item #	Mitigation Strategy	Goal(s)	Planning Partners
PA-2	Develop a fuels treatment database using Department of Conservation and Natural Resources (DCNR) forest projects, Planning and Development Services (PDS) clearing/grading and forest practice permits data and request timber sales and treatment data from DNR and USFS. Update annually and use to coordinate projects across the Local, State and Federal levels to reduce fuels within Wildland Urban Interface (WUI) boundaries.	3	DEM, PDS, DCNR, SCD, DNR, USFS
PA-3	Develop a Countywide forest management and fuel treatment plan on a sub-basin watershed level, and conduct modeling for fire resilience and forest health. Add all county managed forests and potential forest plot treatments from County Forester and hire contractor for County lands to perform forest stand surveys and timber cruises.	3	DCNR, SCD
PA-4	Develop and maintain City/Municipal partnerships for fuel reduction and wildfire response planning. Plan land/forest management strategies and coordinate with partner agencies to share best strategies	1, 3	DEM, DCNR, SCD, DNR, USFS, Local Communities
PA-5	Continue to work to lower the risk of ignition from downed wires along utility corridors	3	SnoPUD and PSE
PA-6	Fund and support a contractor/consultant focused on mitigating risk from electric infrastructure and above ground pipelines, including identifying potential risks of underground utilities and feasibility studies.	3	SnoPUD, PSE, Olympic Pipeline
PA-7	Model predetermined evacuation zones and plan evacuation routes. Identify and connect to shelters or other pre-determined locations and ensure locations have heat/air, water, backup electricity). Identify Places of Last Resort.	3, 4	DEM, SCSO, DPW, Snohomish County Human Services (SHS), Local Fire Agencies, Transit Agencies, American Red Cross
PA-8	Include energy utility representation from multiple sectors in the County Emergency Operation Center and ensure close communications with Incident Command.	4	DEM, SnoPUD, PSE

Item #	Mitigation Strategy	Goal(s)	Planning Partners
PA-9	Coordinate planning for transportation to/from cleaner air centers and evacuation shelters and work with Health Department to provide HEPA filters	4	DEM EOC, SCHS, Snohomish County Health Department (SHD), Red Cross, Transit agencies
PA-10	Integrate the needs of individuals with access and functional needs (AFN) in all phases of emergency management. AFN refers to individuals with a disability, chronic condition, or other factor that may limit their ability to act in an emergency (i.e. physical disability, intellectual disability, chronic conditions or injuries, limited English proficiency, older adults, and children). Coordinate with individuals and organizations representing AFN populations. Plan for AFN specific communications, evacuation, transportation, and sheltering considerations.	4	DEM, SHS, SnoPUD, PSE, SHD, Center for Independence, Local Communities
PA-11	Ensure emergency communications and notifications are accessible to AFN populations. Power outage and Public Safety Power Shutoff communications and notifications are especially critical for individuals with life-sustaining medical equipment.	4	DEM, SHS, SHD, PUD, PSE, Local Communities
PA-12	Study how the business community can contribute to wildfire preparedness and evacuations including contractor connections in mutually beneficial ways to support fire planning, response, and recovery.	5	DEM, Snohomish County Economic Development (SCED), Economic Alliance Snohomish County

Table 16 – Planning and Data Analysis Mitigation Strategies

3.3 Public Education and Outreach

Item #	Mitigation Strategy	Goal(s)	Planning Partners
PE-1	Coordinate SnoPUD education campaign – “see something, say something” for diseased/dead trees on public properties and rights-of-way threatening powerlines). Support and coordinate utility public outreach with Snohomish County Department of Emergency Management (DEM) messaging (social media, mailers, community events, etc.).	1	SnoPUD, DEM and Local Communities
PE-2	Encourage landowners to use small landowner resources from the Snohomish Conservation District (SCD) and apply for incentives and programs through the WA Department of Natural Resources (DNR) small forest landowner office. Promote information and education on forest management strategies to increase forest resiliency and what the benefits to the forest and the public are from these efforts.	2	DEM, DCNR, SCD, DNR
PE-3	Create or obtain user-friendly guides on fire-adapted home building materials and landscaping plants, including what not to use (wood fences, flammable plants), and provide information to construction and landscaping companies and have available at permitting and fire marshals’ offices. Coordinate and train local code enforcement officials, landscapers, master gardeners, arborists on fire adapted best practices for home defensible space and develop cross-jurisdictional enforcement messaging. Pursue novel/strategic outreach including working with local hardware stores on what materials to stock and promote for Wildland Urban Interface (WUI) areas, nurseries on plant signage (“not recommended w/in 100 ft of your home”), and consider funding local tool libraries.	1	DEM, Fire Marshal’s Office, PDS, WSU Extension, Local Communities
PE-4	Host educational events at the schools for continued education (i.e. Smokey Bear). Coordinate fields trips for students to healthy forests and burn scars. Use social media and radio as a tool for extending outreach.	1	DEM, Local Fire Agencies, DNR

Item #	Mitigation Strategy	Goal(s)	Planning Partners
PE-5	Coordinate education programs between Red Cross, SCD, and Snohomish County government regarding wildfire preparedness programs in multiple languages, and develop a team to coordinate communications, outreach, and planning between agencies. Promote the Red Cross wildfire preparedness program.	1	DEM, SCD, Red Cross
PE-6	Expand outreach about the Snohomish County Public Safety Hub and recruit community facilities willing to serve as possible cleaner air centers. Disseminate public education materials to human services agencies and partners during Wildfire Awareness Month and include it as an agenda item for the Snohomish County Organizations Advancing Readiness, Response, Recovery and Resiliency (SOAR4) meeting.	1, 4	SHS, DEM
PE-7	Develop educational plans, publish public education materials and fund/train people to implement the CWPP Public Education and Outreach objectives. Conduct community meetings in high-risk areas.	2	DEM, SCD, Local Fire Agencies
PE-8	Disseminate public education materials on steps residents can take at home to protect themselves from smoke during wildfire and prescribed burn events. Provide presentations to organizations representing, or serving, at-risk populations.	2	SHS, SHD, DEM, Fire Agencies
PE-9	Disseminate public educational materials that building managers can use to protect building occupants from smoke during wildfire and prescribed burn events. Include best practices from HVAC maintenance and improvements.	2	SHS, SHD, DEM, SCED
PE-10	Develop and share outreach materials for small communities and HOAs with guidance for maintaining fuel along right of ways and in commonly owned areas such as community forests or native growth protection areas.	1, 2	DEM, SCD, DPW, Local Fire Agencies
PE-11	Create outreach materials to educate on fire evacuation zones with the public. Exercise Ready, Set, Go within communities.	4	DEM, SCSO, Local Fire Agencies, Local Communities

Item #	Mitigation Strategy	Goal(s)	Planning Partners
PE-12	Support outreach for opting into the automated texts for power outages. Post outages on social media channels. Conduct Public Safety Power Shutoff (PSPS) outreach/education throughout year and coordinate with emergency management partners to expand education and outreach.	4	SnoPUD, DEM and Local Communities
PE-13	Fund, develop, and disseminate a guide for tourists with basic safety information (evacuation zones, fire safety, even bear safety) that they can get at hotels, short term rentals, hiking permit desks, etc.; Expand public education on red flag warnings including burn bans and throwing sparks from vehicles and equipment, and promote through local media and social media.	5	DEM, DCNR, SCED
PE-14	Develop recreation and tourism focused evacuation and closure plans. Consider triggers and signage for recreation facilities and amenities within affected areas to be closed for public safety.	5	DCNR, DNR, USFS, Local Communities, Recreation groups
PE-15	Post visual learning tools around restoration sites (thinning or prescription burns) leaning on recreation benefits. Develop Outreach kiosks around site progress (forest health photographs over time)	3, 5	DCNR, DNR, USFS, Local Communities, Private Timber Companies, Recreation Groups

Table 17 – Public Education and Outreach Mitigation Strategies

3.4 Policy

Item #	Mitigation Strategy	Goal(s)	Planning Partners
Pol-1	Find innovative ways to work with the insurance industry to influence cost reduction to homeowners by considering development regulations within Wildland Urban Interface (WUI) areas that encourage defensible space and fire-resistant materials and landscaping, and encourage residents and property owners to use insurance industry tools to implement fire resilient practices to reduce premiums within WUI areas.	1	Snohomish County Executive's Office (SXO), DEM

Item #	Mitigation Strategy	Goal(s)	Planning Partners
Pol-2	Coordinate Legislative asks to fund wildfire preparedness programs, policies and plans	1	DEM, DCNR, SHS, SHD, Local Communities, Local Fire Districts
Pol-3	Seek funding and develop a program for coached forest planning targeting landowners with parcels too large to qualify for small forest land assistance.	1	DEM, SCD, DNR
Pol-4	Support the development, outreach and implementation of the Communitywide Climate Resiliency Plan and Healthy Forest Program and the recommended actions within the plans	1, 2	SXO, DCNR, DEM
Pol-5	Work with the State Commissioner of Public Lands and Department of Natural Resources (DNR) foresters to prioritize the reduction of fuel/slash piles on DNR land, local public lands, and private forestlands, with highest priority going to areas with higher fire risk in the WUI	1	DEM, DCNR, SCD, Local Communities, Local Fire Districts, DNR
Pol-6	Create a collaborative agency or committee to align codes for wide reach benefits and to provide a platform for districts and agencies to work together on fire planning and prevention efforts	1	SXO, DEM, DCNR, Fire Marshal's Office, Planning and Development Services (PDS), SCD, Local Fire Agencies
Pol-7	Secure additional public and private funding sources for promotional materials - provide incentive for homeowners/landowners to implement defensible space through education and funded programs and leverage local Homeowners Association(s) involvement	1	SCD, DEM, Local Communities, Local Fire Agencies
Pol-8	Explore options to collaboratively fund a full-time staff member to conduct public outreach and education around wildfire risk and speak with homeowners to support outreach efforts including social media campaigns. Designated coordinator must be publicly visible, easy to access, well-resourced, connected to Federal, State and Local agencies and community leaders, and answer to a group of stakeholders and/or directors.	1	SXO, DEM, Fire Marshal's Office, Snohomish County Fire Chief's Association, DCNR, SCD, Local Fire Agencies

Item #	Mitigation Strategy	Goal(s)	Planning Partners
Pol-9	Support lobbying efforts at the state level through Fire Chiefs Association and similar channels to encourage legislative/state-level action on WUI codes, fire safety regulations (i.e. no more wood shingle roofs).	1	SXO, Local Mayors, Snohomish County Fire Chief's Association
Pol-10	Find innovative ways to limit the ignition risks from fireworks including promoting use in safer locations, fire safety education, and consider fireworks bans where supported.	2	Snohomish County Council, Local City Councils, Local Fire Agencies
Pol-11	A healthy local timber harvesting and production industry is critical for fuel management. Find innovative ways to keep local lumber mills from closing such as collaborating with public land managers to produce lumber from thinning harvests and road projects. Promote and incentivize new technologies such as the process to convert materials from logs into cross laminated timber. Work with the logging industry and DNR programs to train more skilled workers to deploy for fires and create a red card certification process to deploy loggers. Lobby the State Legislature to support and incentivize the local timber and lumber industries to maintain a robust workforce, available year-round.	2, 5	SXO, SCED, DNR, State Legislature, State Fire Marshal
Pol-12	Coordinate and plan with voluntary organizations involved in mass care, emergency assistance, temporary housing, and human services regarding their role following wildfire response.	2	SHS, Red Cross
Pol-13	Use monetary incentives or rebates to building owners to improve HVAC systems	2	SXO, DCNR (OES)
Pol-14	Work with the Department of Conservation and Natural Resources (DCNR), DNR, United States Forest Service (USFS), and private timber companies to ensure easements remain open for fire response by simplifying multiple locking systems on gates for different agencies.	2	DEM, DCNR, DNR, USFS, Private Timber Owners, Local Fire Agencies

Item #	Mitigation Strategy	Goal(s)	Planning Partners
Pol-15	Collaboration between Snohomish County Office of Energy and Sustainability (OES), Department of Emergency Management (DEM), and the Snohomish Conservation District (SCD) to pursue grant funding for fuel reduction efforts and outreach. Align efforts with the Countywide Climate Resilience Plan, Hazard Mitigation Plan, and SCD programs.	3	OES, DEM, SCD
Pol-16	Find resources to create a collaborative funding grant application for groups like Team Rubicon to provide support to homeowners for defensible space implementation.	3	DEM, SCD, Local Fire Agencies
Pol-17	Consider Code Enforcement actions for private road/driveway maintenance (eg. a road with more than 12 houses must maintain vegetation within the right-of-way).	3	PDS, Fire Marshal's Office, Local Communities
Pol-18	Consider incentivizing biochar businesses, especially where chipping programs are not available.	3	SCED, SXO
Pol-19	Seek funding and grant opportunities to provide backup battery systems to individuals with life-sustaining medical equipment.	2, 4	SHS, SHD
Pol-20	Seek funding and grant opportunities to provide portable HEPA filters to individuals at increased risk during wildfire smoke events.	2, 4	SHS, SHD
Pol-21	Seek funding and grant opportunities for extended hours and HVAC upgrades at publicly accessible buildings willing to serve as cleaner air centers	4	SHS, OES, Local Communities
Pol-22	Work with Economic Alliance Snohomish County to increase outreach to industry and assist in response to wildfire recovery, planning on behalf of counties, municipalities, industry, and individuals.	5	SXO, DEM, Economic Alliance Snohomish County, Snohomish County Fire Chief's Association

Item #	Mitigation Strategy	Goal(s)	Planning Partners
Pol-23	Develop a post-fire recovery program that advocates for state funding to help businesses within areas that lose significant revenue due to evacuation orders and no trespassing zones, especially in higher risk areas dependent on a tourist driven economy.	5	SXO, SCED, SnoCo Office of Recovery and Resilience
Pol-24	Form a Local Coordination Group from the CWPP Planning Partners to establish implementation measures, mitigation strategy monitoring metrics, and subcommittees to work on the strategies under the mitigation categories. Host an annual meeting of this group to monitor the status and progress of strategies and coordinate projects for grant and funding opportunities. Provide a mitigation progress report to County Leadership and Snohomish County Tomorrow on an annual basis.	2, 4	DEM and all CWPP Planning Partners

Table 18 – Policy Mitigation Strategies

3.5 Wildfire Response Readiness

Item #	Mitigation Strategy	Goal(s)	Planning Partners
WR-1	Obtain training for law enforcement to facilitate wildfire evacuation. Develop plans to use local skilled groups such as the Tulalip Fishing Fleet for Search and Rescue efforts. Coordinate planning efforts between Snohomish County Department of Emergency Management (DEM) and Snohomish Conservation District (SCD) for livestock evacuation and sheltering to ensure alignment and redundancies between agencies including collaborative efforts for messaging	4	DEM, SCSO, Local Fire Agencies, DCNR, SCD, Local Communities
WR-2	Develop a network of partnerships in the CWPP Annex Zones to identify communication networks, resources, equipment, emergency response plans, including roles and responsibilities, and communications plans.	2, 4	DEM, SCSO, Local Fire Agencies, Sno911, Local Communities
WR-3	Pursue funding and no-cost options to host training/field exercises for emergency management, fire districts, policy decision-makers and host an annual summit to discuss and exemplify importance to local officials. Create a public awareness day and leverage media and agency connections to share with the public.	2, 4	DEM, Snohomish County Executive's Office, Local Fire Districts, Local Communities

Item #	Mitigation Strategy	Goal(s)	Planning Partners
WR-4	Coordinate and host monthly fire marshal meetings and annual fire season wrap-up to summarize successes and challenges during the fire season (adaptive management); increase program reporting and data collection	2, 4	Fire Marshal's Office
WR-5	Seek funding to assist homeowners with engineering assessments and posting weight limits for unassessed/unmarked bridges to ease fire apparatus access during response, replacing wood bridges with concrete and steel, expanding driveways/access; obtaining egress signage in confusing community developments. Amend gate numbering system between locals, WA Department of Natural Resources (DNR), United States Forest Service (USFS) to reduce confusion and increase access for evacuation routes.	2, 4	Local Communities, Local Fire Agencies
WR-6	Conduct feasibility studies to update public buildings to become shelters from smoke or heat.	2, 4	SHS, SHD
WR-7	Identify gate owners and ensure appropriate fire agency has contacts for all the keys. Consider replacing locking mechanisms with alternative universal systems and provide keys or codes ensuring universal access for all agencies	2, 4	Local Fire Agencies, DNR, USFS, Private Timber Companies
WR-8	Grow wildland firefighting capabilities through expanded training for wildland firefighters to foster safe and effective response. Support Incident Management Team (IMT) training and advocate for qualifying ("red-carding") personnel to deploy and gain wildland firefighting experience. Consider contracting jail and rehabilitation programs that train and certify for wildland fire fighting or vegetation management for fuel reduction projects and assisting fire responses.	2, 4	DNR, Local Fire Agencies, Snohomish County Department of Corrections
WR-9	Assist Red Cross with locating and securing facilities to be used for evacuation shelters	4	DEM, SHS, DCNR, Red Cross

Item #	Mitigation Strategy	Goal(s)	Planning Partners
WR-10	Consider road clearance, security, and SnoPUD prioritization for vegetation management along evacuation corridors and include the potential populations of Camano (Island County) and Sky Valley (King County) during evacuations	4	SnoPUD
WR-11	Seek funding to purchase Artificial Intelligence (AI) wildfire detecting equipment and solar powered backup equipment for communications towers	2, 4	DEM, Local Fire Agencies, Local Communities

Table 19 – Wildfire Response Readiness Mitigation Strategies

4.0 Resources

4.1 Resources for Communities:

Washington Fire Adapted Communities Learning Network - <https://www.fireadaptedwashington.org/>
Toolkit - <https://www.fireadaptedwashington.org/toolkit/>

Sponsored by the Washington Resource Conservation and Development Council

Natl Cohesive Wildland Fire Strategy - <https://www.forestsandrangelands.gov/strategy/>
USDA and US Department of Interior

DNR CWPP Guidance - https://www.dnr.wa.gov/publications/rp_cwpp_guidance_04102023.pdf.pdf
Provides emergency managers and community planners with guidance on creating and updating
Community Wildfire Protection Plans

Creating a Community Wildfire Protection Plan -
https://www.usfa.fema.gov/downloads/pdf/publications/creating_a_cwpp.pdf
FEMA, US Fire Administration guidance document on developing Community Wildfire Protection Plans

Fire Management Assistance Grants - <https://mil.wa.gov/fire-management-assistance-grant-program-fmagp-for-public-agencies>
FEMA sponsored grant for fire agencies

Wildfire Intel Dashboard -
<https://experience.arcgis.com/experience/6cdda73cf6154949a1fae76ccb2900a0>
DNR dashboard displaying resources available and deployed on DNR jurisdiction fires and statistics on
past DNR fires including ignition sources.

4.2 Resources for Individuals and Forestland Owners:

Snohomish Conservation District Wildfire Resilience - <https://snohomishcd.org/wildfire-resilience>
Resources for property owners including site assessments and assistance with chipping wood debris

DNR Small Forests Program - <https://www.dnr.wa.gov/cost-share>
This program provides technical and financial assistance to implement forest health or wildfire mitigation
treatments or to help landowners write forest management plans on properties up to 5,000 acres.

DNR Wildfire Preparedness - <https://www.dnr.wa.gov/programs-and-services/wildfire/wildfire-preparedness>

Washington State Consulting Forester and Silvicultural Contractor Directory -
<https://forestry.wsu.edu/consultingdirectory/>
This is a compilation of forestry professionals in Washington State who can provide various forestry
services to private landowners including professional service information, bonding and insurance and
location/areas served.

Fire Agencies - <https://snohomishcountywa.gov/382/Fire-Districts>
Contact your local fire agency for tips and recommendations on home fire safety and preparing your
household for evacuation.

Community Wildfire Ambassador - <https://www.wildfireambassador.org/>

Sponsored by the Washington Resource Conservation and Development Council

FireWise USA® - <https://www.nfpa.org/Education-and-Research/Wildfire/Firewise-USA>

Find resources from the National Fire Protection Association to make your home and property more resilient to wildfires. The site provides a Toolkit to get your household and neighborhood started on becoming a Firewise USA® community.

Wildfire Ready Neighbors - <https://wildfireready.dnr.wa.gov/>

A program sponsored by WA Department of Natural Resources to help people prepare for wildfire on a neighborhood or HOA scale. A template plan is provided and community groups can schedule a site visit from DNR staff to assess the neighborhood or community forest.

After the Fire - <https://afterthefirewa.org/>

Post fire recovery resources for individuals and families, sponsored by the Washington Resource Conservation and Development Council, WA Department of Natural Resources and Okanogan Long Term Recovery Group

Snohomish County Weatherization Program – <https://snohomishcountywa.gov/600/Weatherization-Program>

The Snohomish County Weatherization program provides FREE home energy improvements and conservation education to qualifying low-income households and can help homeowners and renters lower their utility costs and make their homes more comfortable and resilient to wildfire smoke.

4.3 Resources for Safety and Evacuation:

SnoCoAlerts - <https://www.smart911.com/smart911/ref/reg.action?pa=snohomish>

Powered by Smart911, SnoCoAlerts is the county's early warning system and notification system. You can choose what activities you want to be alerted about. Your zip code and address are used to tailor alerts for where you live. You can add more alerts or update your contact methods at any time.

Public Safety Hub - [Snohomish County Public Safety Hub](#)

The website for real-time hazard specific information in Snohomish County, such as information on sheltering, evacuations, real time response, and more.

Snohomish County Hazard Viewer - [Snohomish County Hazard Viewer](#)

The Snohomish County Hazard Viewer is a collection of interactive digital maps designed to help people better understand and manage hazard risks. Information is presented in a searchable format so you can be aware of and prepare for potential hazards where you live and work, and the many other places life takes you.

Citizen Emergency Response Team (CERT) - [CERT | Snohomish County, WA - Official Website](#)

A program that teaches basic disaster response skills that can help you assist your community during disaster situations. The training typically consists of 20 hours of instruction including hands on learning. Some programs provide training one night a week over a course of eight weeks while other programs offer fast track training that can be completed in one weekend.

Ready Set Go – [Snohomish County Wildfire Preparedness](#)

Evacuation alerts in Snohomish County follow the Ready, Set, Go! model. Alerts may be sent to your phone if wildfire danger is imminent. They are used when it may be critical to get away from danger fast.

2 Weeks Ready - [2WeeksReady](#)

Two Weeks ready is the method of ensuring your household has 2 weeks of food, water, medications, and any other supplies your household may need if you need to shelter in place.

Acronym/Abbreviation List

Acronym/Abbreviation	Name
AFG	Assistance to Firefighters Grant
AQI	Air Quality Index
BAER	Burned Area Emergency Response
BPA	Bonneville Power Administration
CFI	Center for Independence
CIP	Capital Improvement Plan
CWDG	Community Wildfire Defense Grant
CWPP	Community Wildfire Protection Plan
DCNR	Snohomish County Department of Natural Resources
DEM	Snohomish County Department of Emergency Management
DNR	Washington State Department of Natural Resources
DPW	Snohomish County Department of Public Works
DOH	Washington State Department of Health
EPA	United States Environmental Protection Agency
FEMA	Federal Emergency Management Agency
GPI	Glacier Peak Institute
IC/UC	Incident Command/Unified Command
NOAA	National Oceanic and Atmospheric Administration
PDS	Snohomish County Planning and Development Services
PM2.5	Fine Particulate Matter
PSCAA	Puget Sound Clean Air Agency
PSE	Puget Sound Energy
PSPS	Public Safety Power Shutoff
SAFER	Staffing for Adequate Fire and Emergency Response
SCD	Snohomish Conservation District
SCED	Snohomish County Economic Development
SCEOC	Snohomish County Emergency Operations Center
SHD	Snohomish County Health Department
SHS	Snohomish County Human Services
SnoPUD	Snohomish County Public Utility District No. 1
SnoSMART	SnoPUD Secure Modern Automated and Reliable Technology
SCSO	Snohomish County Sheriff's Office
SXO	Snohomish County Executive's Office
TIP	Transportation Improvement Plan
UDC	Unified Development Code of Snohomish County
USDA	United States Department of Agriculture
USFS	United States Forest Service
WRIA	Water Resource Inventory Areas
WSDOT	Washington State Department of Transportation
WUI	Wildland Urban Interface

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ⁱ Contemporary methods for mapping WUI areas often rely on highly accurate data sources such as building locations derived from remote sensing (Carlson 2022). Density calculations use actual locations of homes or structures in a variable radius neighborhood, which Bar-Massada et al (2013) describes as "calculat[ing] the density of housing units and wildland vegetation around each pixel in a landscape by using a circular moving window analysis". Similar methods are used by Ketchpaw et al (2022). In the WUI-P method, vegetation cover and density requirement remain the same but are calculated using various neighborhood sizes instead of census blocks. For the Snohomish County analysis, a neighborhood radius of 500m was used for density calculations.

ⁱⁱ NOTE: The "Forest Ownership CONUS" data product from the US Forest Service provided the basis for these estimations. Per USFS, "this data product contains raster data depicting the spatial distribution of forest ownership types in the conterminous United States circa 2020. The data are a modeled representation of forest land by ownership type, and include three types of public ownership: federal, state, and local, as well as three types of private: family (includes individuals and families), corporate,

and other private (includes conservation and natural resource organizations, unincorporated partnerships and associations, and Native American tribal lands)”.

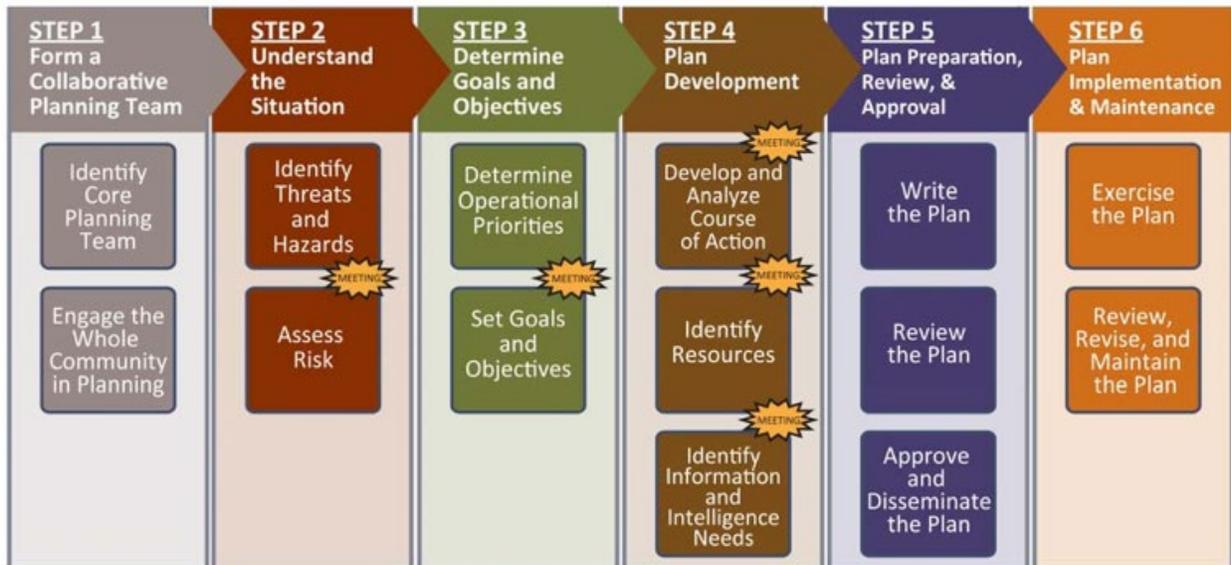
Appendix A

Planning Process

After the Bolt Creek Fire in 2022, Snohomish County Department of Emergency Management (DEM) applied for a Community Wildfire Defense Grant (CWDG) to complete a countywide Community Wildfire Protection Plan (CWPP). The application did not score well enough for wildfire risk and it did not move on to the competitive Federal level. On May 24, 2023, the Snohomish County Fire Chief’s Association delivered a letter to DEM petitioning and supporting the development and formalization of a countywide Community Wildfire Protection Plan. The chiefs felt that the plan would help establish best practices, better coordinate first responders and ensure that grant applications were given more of a priority under current funding models.

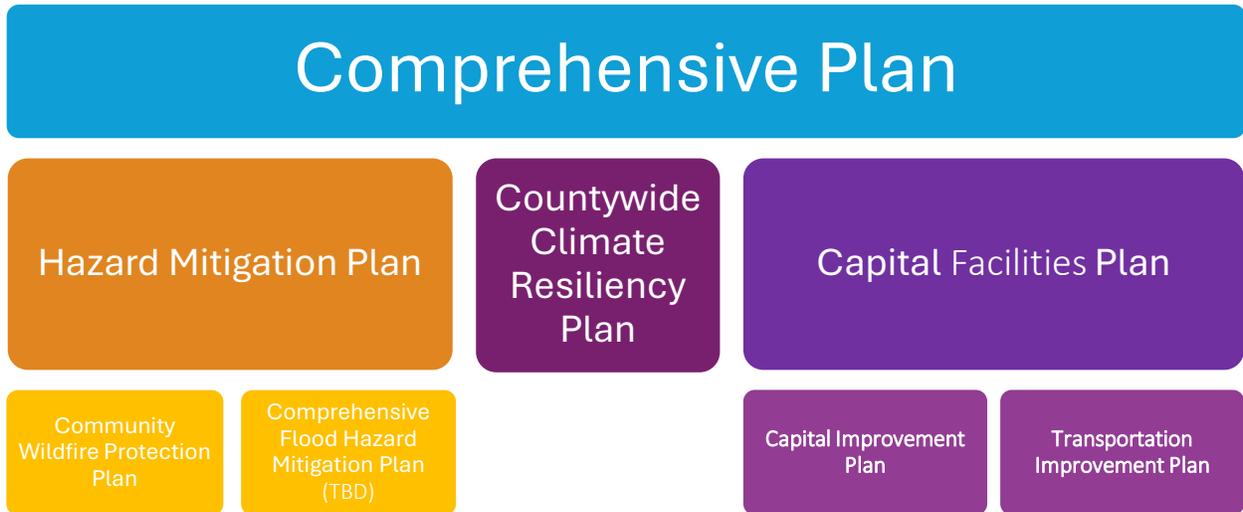
DEM formalized an internal planning team to begin the CWPP process and to apply for the next round of the CWDG grant funding to support it. The team began coordination with 50 planning partners in the public, private and nonprofit sectors to form a CWPP Planning Team and a CWPP Advisory Committee. The Planning Team kicked off its first meeting in November of 2023 with a general discussion about the growing concerns around wildfire risks, the requirements of a CWPP and assisted in drafting a framework for the plan.

The Planning Team met once a month, and the Advisory Committee was briefed on their progress on a quarterly basis. The planning process followed the guidelines in the CWPP Handbook and FEMA’s Community Preparedness Guide 101 steps to planning.



The teams met throughout 2024 identifying risks and concerns, setting goals and objectives, and discussing CWPP content and firefighting resources. Once this content was developed, the Planning Team and Advisory Committee came together with industry subject matter experts at a Mitigation Strategy workshop in October of 2024 at the Evergreen Fair Park in Monroe. Local foresters presented best available science, and strategies to help meet the plan’s goals and objectives were developed over table discussions and captured in notes and maps. DEM worked

with partners to refine these strategies over the next few months. DEM staff also held focused work groups to better understand the vulnerabilities and risks to individuals, communities and businesses to help develop the content for the risk and response section. A final draft of the mitigation strategies was sent for review in May of 2025, and the draft plan was disseminated to partners and the public in July for comment.



The plan was developed in alignment with the Snohomish County Comprehensive Plan 2024 Update. The DEM CWPP team worked with staff at Snohomish County Planning and Development Services (PDS) during the Comprehensive Plan update to provide some wildfire goals and objectives in the Climate Change and Resiliency element, specifically CRE Policy 3.B.2 *“The County shall coordinate with jurisdictions and fire protection agencies to prepare for and mitigate the effects from wildfires and smoke by developing a Community Wildfire Protection Plan and coordinating fuel reduction in wildland urban interface (WUI) areas.”* Comments about wildfire risk and response received during the Comprehensive Plan Update process were forwarded to the DEM CWPP team to be considered for the 2025 Hazard Mitigation Plan Update. Additionally, the CWPP will be implemented as the Wildfire Chapter of the County’s HMP Update when approved.

Public Process

Snohomish County opened up a robust public survey in July 2024 asking residents about their preparedness levels for wildfire and evacuation. The survey was open for 4 months and received 1,110 responses. The internal team at DEM compiled the survey results into a report that can be found in Appendix B.

DEM held two CWPP Open Houses for residents in the County on May 18th and May 22nd, 2025, to better understand the purpose of a CWPP, wildfire risks to their properties, meet with their local fire districts and local planning partners for home hardening, defensible space and wildfire smoke actions they could take at a household level. Residents were also able to connect with the Snohomish Conservation District and the Washington Department of Natural Resources to sign up for site visits under their various programs. Attendees expressed concerns about the effort and costs of home hardening projects and defensible space work, and traffic concerns during a wildfire evacuation.

DEM placed the CWPP out for partner and public review on July 1, 2025 and kept it open until July 30th.

Review Process

The CWPP received public review from July 1 – 30 2025. DEM held a Planning Team meeting on August 6th to review and adjudicate the public comments. The finalized plan was sent to DNR in August for review by the DNR Community Resilience Program and on to the State Forester for approval and signature. Once the plan was approved by the State Forester it was sent to the Snohomish County Council for approval and adoption.

Implementation Process

Snohomish County DEM will coordinate a CWPP Local Coordination Group to establish implementation measures, mitigation strategy monitoring metrics, and subcommittees to work on the strategies under the mitigation categories. The intent is for the subcommittees to meet and work throughout the year on prioritized mitigation strategies for their group. The subcommittees will also scope projects and develop language for grant applications and funding requests to support the identified work.

DEM will host the Local Coordination Group at least once a year in the Spring to monitor the status and progress of strategies and coordinate projects for grant and funding opportunities. This group will also provide a mitigation progress report to County Leadership and Snohomish County Tomorrow on an annual basis.

Maintenance and Update Process

The Local Coordination Group will monitor the progress of the Mitigation Strategies and the occurrence of wildfires in Snohomish County. The group will decide which strategies will be prioritized during the five year planning horizon, and work to reprioritize strategies as others are completed or determined unfeasible. They will also identify gaps in the CWPP plan and mitigation strategies to include in the next update cycle.

Plan updates will occur every 5 years in concurrence with the Hazard Mitigation Plan Update. The Local Coordination Group will be the sponsor of the CWPP update and will assist in getting input from additional planning partners for workshops and subject matter expertise. The County understands that any updates, including for minor housekeeping will require an additional review and approval by the Washington State Department of Natural Resources.

Planning Partners

American Red Cross

Atterbury Consultants

City of Arlington

City of Gold Bar

City of Monroe

City of Sultan
City of Snohomish
City of Stanwood
Community Transit
Darrington Forestry Collaborative
East County Fire and Rescue
Fire District 4
Fire District 5
Fire District 16
Fire District 24
Fire District 25
Fire District 26
Glacier Peak Institute
King County Office of Emergency Management
North County Fire and Rescue
Pilchuck Tree Farm (Pacific Denkman Company)
Puget Sound Energy
Regional Alliance for Resilient and Equitable Transportation (RARET)
Sauk-Suiattle Tribe
Snohomish Conservation District
Snohomish County Fire Chief's Association
Snohomish County Department of Conservation and Natural Resources
Snohomish County Department of Human Services
Snohomish County Department of Public Works
Snohomish County Executive's Office
Snohomish County Fire Marshal's Office
Snohomish County Health Department
Snohomish County Office of Energy and Sustainability
Snohomish County Planning and Development Services

Snohomish County Sherriff's Office
Snohomish County Transportation Coalition (SnoTRAC)
Snohomish Regional Fire and Rescue
Snohomish County Public Utility District No. 1 (SnoPUD)
South County Fire
Stillaguamish Tribe
Team Rubicon
The Wilderness Society
Town of Index
Town of Darrington
Tulalip Tribes
US Forest Service
Washington Fire Adapted Communities
Washington Resource and Conservation Development Council
Washington State Department of Natural Resources
Washington State University

List of Low-Income, Vulnerable Census Blocks in or adjacent to WUI

Snohomish County has 23 Census Tracts which have a median household income less than 80% of Washington State (a median household income less than \$65,920) meeting the low-income criteria.

(Source: U.S. Census Bureau. (2021). American Community Survey. Washington, DC. All Census Tracts within Snohomish County, Washington. Income (Households, Families, Individuals), [https://data.census.gov/table?t=Income+\(Households,+Families,+Individuals\)&g=050XX00US53061\\$1400000&tid=ACST5Y2021.S1903&tp=true](https://data.census.gov/table?t=Income+(Households,+Families,+Individuals)&g=050XX00US53061$1400000&tid=ACST5Y2021.S1903&tp=true))

This includes the town of Darrington, WA which meets the "low income" criteria. It has a median household income of \$32,750. In order to qualify in Washington, locations must have a median household income less than \$65,920, which is 80% of Washington's median household income.

(Source: U.S. Census Bureau. (2021). American Community Survey. Washington, DC. As reported by the CWDG Data Tool, <https://wildfirerisk.org/cwdg-tool/5300016690>)

11 of the 23 low-income Census Tracts are also identified as underserved Census Tracts by the Climate and Economic Justice Screening Tool. One Census Tract of 651 square miles in the Darrington Area is in the 73rd percentile for their share of properties at risk of fire in 30 years.

(Source: Council on Environmental Quality. (2022). Climate and Economic Justice Screening Tool, version 1.0. <https://screeningtool.geoplatform.gov/en/downloads>)

20 of the 23 low-income Census Tracts have a CDC Social Vulnerability Index score above 0.75.

(Source: Centers for Disease Control and Prevention/ Agency for Toxic Substances and Disease Registry/ Geospatial Research, Analysis, and Services Program. CDC/ATSDR Social Vulnerability Index 2020 Database Washington.

https://www.atsdr.cdc.gov/placeandhealth/svi/data_documentation_download.html.

Census Block Number	Total Population
53061040200	6736
53061040400	4677
53061040700	4889
53061041805	6261
53061041808	4364
53061041809	4838
53061041810	5694
53061041812	6157
53061041815	3267
53061041904	6766
53061041906	3408
53061041907	3652
53061050900	3871
53061051401	4157
53061051402	4285
53061051500	6124
53061051701	6955
53061052402	4328
53061052903	4358
53061052905	4753
53061053102	4910
53061053509	4078
53061053700	3105

Monitoring and Evaluation Questions	State Measures	National Measures	Page(s) indicated in current plan	Comments - on Final plan for questions in Column A	Notes to consider during the CWPP process
Who has been involved in CWPP development and implementation?	<i>Shows collaboration was in place, including a standing committee.</i>	Cohesive Strategy - https://www.forestsandangelands.gov/documents/strategy/natl-cohesive-wildland-fire-mgmt-strategy-addendum-update-2023.pdf	Section 1.1 and Planning Process Appendix (p)		Another good resource: https://www.forestsandangelands.gov/documents/resources/plan/10-yearstrategyfinal_dec2006.pdf
What is the plan for CWPP implementation moving forward, and who is responsible? How will successes be tracked?	N/A	CWPP Handbook	Section 3.0 (p)		Goal is to form a Local Coordinating Group(LCG) that will "implement" the CWPP and track success. We don't want this to be shelf art question. What will group do to implement CWPP?
Have social service agencies (or groups that might assist low-income and vulnerable populations) been partners in CWPP efforts? If so, how?	<i>Builds on equity and inclusion; See Goal 3, Strategy 6.3 of the 10-year Washington DNR Wildfire Strategy at https://www.dnr.wa.gov/StrategicFireProtection.</i>	N/A	Yes. Section 2.4 (p) and Section 3.0 Mitigation Strategies (p) and Planning Process Appendix		CR - Heads up to make sure this is included. This is also good to have for future grants. Some plans may have this as an action item. Often these may be local NGO's who are targeting these groups
How will the coordinating group for this plan stay engaged in the plan's implementation? How often will partners gather to review action items? When will the plan be updated?	<i>Builds on collaboration, and leads to monitoring of accomplishments; Additional resources at https://www.dnr.wa.gov/publications/rp_cwpp_guidance_04102023.pdf</i>		Mitigation Strategy POL 22 (p) and Planning Process Appendix		CR staff to promote formation of a Local Coordination Group (LCG).
Describe the community(ies) involved in the planning area (demographics, residential and commercial development, etc.).	<i>Need this information to determine future growth, especially in the WUI, in the update. Points to economic loss in the event of a catastrophic wildfire.</i>	N/A	Section 1.3 (p x)		CR - ensure this is in the plan.
Is this a multi-jurisdictional plan?	<i>If so, ensure all communities at risk and/or wildland-urban interface areas are identified, including listing mitigation actions necessary to reduce risk.</i>	Cohesive Strategy	Yes Section 1.0, Planning Process Appendix		County-wide plans are multi-jurisdictional. Some larger cities may choose to have their own CWPP, or an individual island in the Sound, may choose to have their own CWPP.
Describe how the risk assessment was conducted and how hazard level (low, moderate, high, very high, extreme) was delineated.	<i>Standard in any CWPP (see handbook and other additional resources)</i>	HFRA	Section 2.1 (p)		Homepage - Wildfire Risk to Communities. What program or process did group use to determine risk?
What percentage of communities at risk also have low-income, vulnerable populations? Are these communities engaged in reducing wildfire risk?	<i>Shows equity and inclusion; DNR strives to implement equity and inclusion principles when awarding grant funds to communities.</i>	N/A	Planning Process Appendix		Utilize any of the demographic information included in census, or at wildfirerisk.org .
How many fuels reduction projects have spanned ownership boundaries to include public and private land?	<i>20-year Forest Health Strategy, Goal 1.</i>	N/A			Past, present, and future fall under this. How many were cross boundary? Coordinate with land management agencies to determine acres and treatment boundaries of accomplished treatments the currently exist. New plans may not have any completed but some areas may have had programs in place even with no CWPP prior to this one.

What kind of resource losses have occurred from wildfires in past years?	<i>Not required, but important when describing current situation in a plan update. Is the plan working, and what improvements have been made to the update based on lessons learned?</i>	N/A	Section 1.3.7 (page 17), Section 2.4 (page 28), Section 2.5 (pages 30 and 36)	Snohomish County does not know the value of the timber lost by the USFS during the Bolt Creek Fire, but summarizes the losses and economic impacts in these sections.	Fire History and amage from wildfires to the best of group knowledge. DNR website has fire history data.
What is the public's understanding about structural ignitability with respect to wildfire as a hazard? How vulnerable does the public think they are?	<i>Encourage retrofitting/hardening during remodeling or prior to new building as a mitigation strategy in areas of moderate to extreme hazard.</i>	N/A	Section 2.2 identifies fuel sources (page 21) Section 2.3 includes recommendations for property and structure owners to increase resilience including home hardening and defensible space (page 22) Section 2.7 includes survey responses (pages 42 and 43)	Section 2.7 contains the results from a public preparedness survey with over 1100 respondents conducted in fall of 2024.	Surveys and public meetings are good places to glean this kind of information.
Are there any Firewise USA or fire-adapted communities within the plan boundary?	<i>See WA DNR 10-year Wildfire strategy: Goal 3.</i>	Cohesive Strategy	No. Goal 3 (page 5) addresses resilient landscapes. Section 2.3 includes recommendations for property and structure owners to increase resilience including home hardening and defensible space (page 22) Resources for communities to begin process are in Section 4.2 including a link to the Firewise USA® information (pages 68-69)	This CWPP gives a framework and resources for neighborhoods and communities to become Firewise USA or a fire-adapted community.	Firewise USA sites may be only measure. Fire-adapted communities may be a better measurement of how much action communities have taken to reduce their risk. DNR CR can get this information from Firewise.org
What is the availability and capacity of local fire agencies to respond to wildland and structural fires within the planning area? Who are those agencies and where are they located?	<i>See WA DNR 10-year Wildfire strategy: Goal 4.</i>	Cohesive Strategy	Section 2.8 (pages 44-46)	Snohomish County is doing one more outreach push to local fire agencies to update their data while this plan is under review by DNR.	Survey fire chiefs.
What kind of public involmnet took place during the plan's development?	<i>Speaks to monitoring and evaluation of the plan.</i>	N/A	Appendix A (page A-2) Public Preparedness Survey (open from 7/26-11/16/2024) 2 Open Houses (5/15 and 5/22/25) Public Review of plan (7/1-7/30/25)	Appendix A contains the information about the planning and public process during the CWPP process	Ensure dates of public engagement were conducted.

<p>What kind of change in public awareness about wildfire has resulted from the plan?</p>	<p><i>Speaks to monitoring and evaluation of the plan.</i></p>	<p>N/A</p>	<p>Section 2.7 (pages 40-43)</p>	<p>Snohomish County received 1,110 responses to the CWPP Wildfire Preparedness public survey and approximately 40 people attended the 2 Open House events in May 2025</p>	<p>LCG would monitor this. Surveys and public meetings are good places to glean this information from.</p>
<p>What kinds of activities have citizens taken to reduce wildfire risk since the plan's inception?</p>	<p><i>Speaks to monitoring and evaluation of the plan.</i></p>	<p>N/A</p>	<p>N/A this is a new plan. Section 2.3 includes recommendations for property and structure owners to increase resilience including home hardening and defensible space (page 22) Resources for communities to begin process are in Section 4.2 including a link to the Firewise USA® information (pages 68-69)</p>	<p>CWPP provides recommendations and resources for residents to begin this process</p>	<p>LCG would monitor this. Surveys and public meetings are good places to glean this information from. Some counties may have existing programs or Firewise USA sites conducting this currently.</p>
<p>Is the CWPP aligned with other hazard mitigation plans or efforts, like Natural Hazard Mitigation Planning and Comprehensive Planning?</p>	<p><i>Helps determine option for signature/support from the State Forester.</i></p>	<p>N/A</p>	<p>Yes, the plan involved collaboration with County Comprehensive Plan staff and is being aligned with the 2025 Hazard Mitigation Plan update (see Planning Process Appendix A page A-2)</p>		<p>Plan is reviewed by CR staff and sent to Plans for review on behalf of State Forester.</p>



Snohomish County Fire Chiefs Association Attachment Item Summary

Attachment
D

SCFCA MEETING DATE:	
September 8, 2025	
SUBJECT:	
Evacuation Shelter in Place Annex	
ATTACHMENTS:	
Snohomish County CEMP E-SIP Annex_Final_8.12.2025signed	
DIVISION OF ORIGIN:	
Lucia Schmit – Snohomish County Emergency Management Director	
EXPENDITURES REQUESTED:	-
BUDGET CATEGORY:	-
BUDGETED AMOUNT:	-
LEGAL REVIEW:	
DESCRIPTION:	
<p>Attached is the final, fully signed version of the Evacuation Shelter In Place Annex. Our next step is socializing the plan with both the public and those with operational responsibilities. Here is our plan for that:</p> <ul style="list-style-type: none"> • High level awareness briefings to: <ul style="list-style-type: none"> ○ Cabinet (done) ○ Executive Leadership Team (Done) ○ DEM Advisory Board (done) ○ Next quarterly EOC training ○ Local Emergency Management Planning Committee • Operational briefings to: <ul style="list-style-type: none"> ○ Emergency Management Coordinating Committee and Emergency Management Working Group, and any county departmental operations groups that would like one ○ Fire Chiefs Association, and any fire district leadership groups that would like one ○ Police Chiefs Association, and any law enforcement leadership groups that would like one <ul style="list-style-type: none"> • @Johnson, Susanna is there someone I can work with to get on the Sheriff’s Office Command Staff meeting? ○ Emergency Managers of Snohomish County • Incorporate short 5 minute blurbs during trainings delivered at/by DEM, such as: <ul style="list-style-type: none"> ○ ICS 300 & 400 trainings when evacuation roles/responsibilities are discussed and the ICS/EOC Interface training <p>We are also taking steps to increase community awareness of the plan:</p> <ul style="list-style-type: none"> • Continuing outreach around “Ready, Set, Go” messaging, having a go kit, knowing their hazards • Incorporating into our September Preparedness Guide publication in the Everett Herald • Posting on the DEM website 	



Snohomish County Fire Chiefs Association Attachment Item Summary

Attachment

D

HISTORY:

ALTERNATIVES:

RECOMMENDATION:

Snohomish County

Evacuation and Shelter-in-Place Annex

Comprehensive Emergency Management Plan

July 2025

Annex Overview:

This annex provides an overview of evacuation and shelter-in-place policies and procedures for Snohomish County. The information contained in this annex may not be applicable for all evacuation or shelter-in-place operations but should be used to the extent possible.

Agencies involved in the Annex:

Coordinating Agency	<ul style="list-style-type: none"> • Snohomish County Department of Emergency Management (DEM) • Snohomish County Fire Agencies
Lead Agency	<ul style="list-style-type: none"> • Snohomish County Sheriff’s Office
Primary Agencies	<ul style="list-style-type: none"> • <u>Emergency Support Function (ESF) #1 Transportation</u> Snohomish County Department of Public Works - Roads • <u>ESF #3 Public Works</u> Snohomish County Department of Public Works • <u>ESF #4 Firefighting and ESF #10 HazMat</u> Snohomish County Fire Chiefs Association • <u>ESF #5 Emergency Management</u> Snohomish County DEM • <u>ESF #6 Mass Care</u> Snohomish County Department of Human Services • <u>ESF #8 Public Health</u> Snohomish County Health Department • <u>ESF #9 Search and Rescue and ESF #13 Law Enforcement</u> Snohomish County Sheriff’s Office • <u>ESF #11 Agriculture and Natural and Cultural Resources</u> Snohomish County Department of Conservation and Natural Resources • <u>ESF #15 Public Information</u> Snohomish County DEM
Supporting Agencies	<ul style="list-style-type: none"> • <u>ESF #6 Mass Care</u> American Red Cross - NW WA Chapter

	<p>Snohomish County Organizations Advancing Readiness, Response, Recovery and Resiliency (SOAR4)</p> <ul style="list-style-type: none"> • <u>ESF #14 Cross Sector Business and Infrastructure</u> Private Sector
--	---

Table 1. Agencies involved in Annex

1. Signature Page for Annex Lead Agencies

This Annex has been reviewed and updated by key public safety response partners in accordance with Snohomish County Department of Emergency Management procedures and Emergency Management Accreditation Program compliance. This Annex provides a general overview for the roles, responsibilities, and primary actions that will take place during its activation. Information in this Annex may be modified as necessary when new information emerges and as guidance changes. All records of modifications must be recorded in **Section 13: Record of Updates and Exercises**.

This page will act as a receipt of acceptance and understanding of the roles and responsibilities of the Snohomish County Sheriff’s Office, Snohomish County Fire Agencies, the Snohomish County Department of Emergency Management, and Snohomish County government.

Dave Somers
Snohomish County Executive



Susanna Johnson
Snohomish County Sheriff



Chief Dave Kraski, President
Snohomish County Fire Chiefs Association



Lucia Schmit, Director
Department of Emergency Management



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2. Introduction

2.1. Purpose

- 2.1.6. The Snohomish County Evacuation and Shelter-in-Place (ESIP) Annex (hereafter the “Annex”) establishes a coordinated strategy for the decision making and implementation of evacuation and shelter-in-place actions to protect the public peace, health, and safety of people, and to preserve lives and property. This Annex is in accordance with the Snohomish County Code, Comprehensive Emergency Management Plan (CEMP), related Revised Code of Washington (RCW), and Washington Administrative Code (WAC). This Annex supports the Snohomish County CEMP and assists county officials with making life safety protective action decisions related to shelter-in-place and/or evacuation in response to all threats and all hazards. This Annex is consistent with the National Incident Management System (NIMS) and National Response Framework (NRF) and complements existing Snohomish County plans and policies, including the Vulnerable Populations Transportation Framework (VPTF).
- 2.1.6. This Annex aligns with statewide concepts and principles as outlined in the Washington State CEMP. The State CEMP identifies that the State will assist any city or county within the state requesting emergency or disaster assistance through the State Emergency Operations Center (SEOC). Specifically, the SEOC will operationally communicate and coordinate directly with the Snohomish County Emergency Operations Center (SCEOC).
- 2.1.6. This Annex outlines Snohomish County’s goals and objectives when making evacuation and shelter-in-place decisions and acting to protect life and property.
- 2.1.6. This Annex identifies principles and methods to evacuate all people necessary while moving the fewest numbers of people who are most at risk the shortest possible distance. Responders should encourage the remaining populations to shelter-in-place to ensure that evacuation and response

capability and capacity is focused on those who truly need it. Over evacuation of populations may overwhelm resources and transportation routes.

2.1.6. Incidents in Snohomish County should be managed at the lowest possible geographical, organizational, and jurisdictional level consistent with laws, policies, and agreements. This Annex considers the involvement of the whole community, which includes:

- Individuals
- Communities
- Private and non-profit sectors
- Volunteer Organizations Active in Disaster and Community Organizations Active in Disaster
- Faith-based organizations
- Federal, state, and local governments

2.1.6. When local resources become exhausted, emergency managers depend on the involvement of multiple jurisdictions and the State for support. Therefore, it is imperative that the whole community be prepared to assist in this effort. This Annex will be used in preparation or response to any incident or disaster involving the actual or potential need for evacuation and/or shelter-in-place protective actions.

2.2. Scope

2.2.6. This Annex describes a detailed and coordinated approach to evacuation and shelter-in-place operations in Snohomish County. The Primary Agencies will implement this Annex with Support Agencies assisting as necessary. This Annex is scalable to support the management of any localized, phased, zone-based, mass evacuation or shelter-in-place operation.

2.2.6. Planning considerations, community stakeholders, and transportation resources for Critical Transportation Needs (CTN) populations are covered in more detail in the Vulnerable Populations Transportation Framework (VPTF).

2.2.6. Information regarding planning considerations, resources, and procedures for providing emergency shelter, food, and essential services to individuals and communities displaced by disasters or emergencies can be found in the Emergency Support Function (ESF) 6 Annex.

2.2.6. This Annex is intended to assist Snohomish County – with or without SCEOC activation – in collaborative evacuation or shelter-in-place operations. Specifically, this Annex:

- Outlines concepts and policies for agencies in Snohomish County to implement shelter-in-place, evacuations, or a combination of both.
- Describes the planning process to ensure safe and efficient shelter-in-place and/or evacuation and re-entry of the affected population.
- Outlines the lines of authority, roles and responsibilities, and organizational relationships in accordance with existing laws and policies.
- Establishes how Snohomish County will implement protective action alerts, notifications, communications, and activations for shelter-in-place and evacuation.

2.2.6. If shelter-in-place or evacuation operations extend beyond the jurisdiction of Snohomish County, it may be necessary to activate multi-jurisdictional area coordination. This will be coordinated directly with neighboring jurisdictions.

2.3. Access and Functional Needs (AFN)

2.3.1 The movement of those with AFN requires advance planning and coordination and may present unanticipated challenges. AFN is a broad definition that includes anyone who might have additional

needs before, during, or after a disaster in accessing services. This includes individuals who may or may not meet the definitions of disability under existing civil rights laws, such as people with limited or no English language proficiency, individuals who are institutionalized, women in late-term pregnancy and new mothers, or those with limited or no access to transportation. Anyone with a disability has an access and functional need, but not everyone with an access and functional need has a disability.

- 2.3.2 Please refer to the Vulnerable Population Transportation Framework (VPTF) for more detailed planning related to the movement of vulnerable populations, including those with AFN.

2.4. Planning Principles

- 2.4.6. Evacuate all people necessary while moving the fewest people possible the shortest possible distance.
- 2.4.6. Shelter-in-Place should be considered the first/default option when safe and feasible.
- 2.4.6. Zone-based evacuation targeting the most at-risk areas should be used first in evacuation operations, limiting the need for evacuating large areas that are not under the threat of a hazard.
- 2.4.6. Simplify terminology to basic requirements (e.g., Level 1 – Ready; Level 2 – Set; Level 3 – Go!), that are communicated in a variety of languages and eliminate unnecessary terms (e.g., recommended, required, mandatory, and voluntary evacuation) to avoid confusion.
- 2.4.6. Include representatives of the whole community in evacuation planning and coordination, including those with AFN.
- 2.4.6. Evacuation planning should be consistent with existing jurisdictional authority, roles, and responsibility.
- 2.4.6. The Annex is flexible and scalable to engage the appropriate response level based on incident circumstances. All response efforts should be coordinated with the State in addition to impacted and surrounding jurisdictions.
- 2.4.6. The Annex accounts for populations evacuating with household pets and livestock and addresses the specific needs of those with service and comfort animals.
- 2.4.6. Evacuee tracking may be integrated into evacuation operations based on jurisdictional capacities, capabilities, and resource needs. Where evacuee accountability is necessary, those agencies with custodial responsibility (such as jails, schools, childcares, etc.) will be responsible for the determination and implementation of a tracking solution that is appropriate to the number of transportees and their reason for transport, with SCEOC supporting.
- 2.4.6. Snohomish County will coordinate evacuations with mass care efforts so that populations evacuating a disaster area have a safe location to seek refuge.
- 2.4.6. Snohomish County may serve as a pass-through community or destination location for evacuees from other counties or states. Complete or partial activation of this Annex may be necessary to support large numbers of incoming evacuees.

3. Policies

3.1. Authorities

- 3.1.6. For all incidents, the Incident Command/Unified Command (IC/UC) has the authority to identify the need for and boundaries of any evacuation efforts and issue a call for evacuation.
- 3.1.6. Additionally, the County Executive has the authority to issue evacuation orders during a proclaimed emergency and the DEM Director has this authority if the County Executive is unavailable.
- 3.1.6. The chief executive, or their designee from the county, city, town, tribe, subject to the law and through an emergency declaration, the chief executive, or chief law enforcement officer has powers to:
 - Suspend laws and ordinances, such as to establish a curfew, direct evacuations, and, in coordination with the health authority, to order a quarantine;
 - Execute, negotiate, or enter into mutual aid agreements with other jurisdictions to facilitate resource-sharing; and
 - Request State and, if necessary, Federal assistance through the Governor, or their designee, when it is determined the County's capabilities will be exceeded or exhausted.
- 3.1.6. Evacuation efforts will be managed by the Incident Command Post (ICP), in coordination with Sno911, the SCEOC, the Sheriff's Office and other law enforcement, local fire agencies, when applicable, and other partner agencies, as necessary.
- 3.1.6. Initial contact to DEM may be through the DEM Duty Officer but will transition to the Snohomish County EOC as local agency and jurisdictional resources become overwhelmed or a higher level of coordination is required; then all communication, support, and operational coordination is synchronized through the SCEOC.
- 3.1.6. Evacuations can be resource intensive. Each responding agency will first support the evacuation according to their capabilities. As the need escalates, additional resources may be acquired via mutual aid agreements. When all local resources and capabilities are overwhelmed, the County may then request State assistance under a Governor's disaster or emergency declaration. The various resources necessary to support evacuation and shelter-in-place efforts will be controlled by the ICP and coordinated through the SCEOC.
- 3.1.6. The Snohomish County Sheriff's Office and other law enforcement will assist in directing people out of evacuation areas at risk of a hazard, however, law enforcement should not be assigned areas to evacuate when not properly equipped or trained for the specific hazard.
- 3.1.6. The Snohomish County Sheriff's Office (Corrections Bureau) will determine the need for evacuation from the County Jail. The Jail is prepared for an extended shelter-in-place period. If the need for evacuation arises, the Snohomish County Corrections Bureau will arrange private buses to transport incarcerated individuals out of harm's way.

4. Situation

4.1. Emergency Disaster Conditions and Hazards

- 4.1.6. Snohomish County will periodically experience emergency and disaster situations which will damage critical infrastructure, inhibit mobility, and delay restoration of essential public services. Some of these emergency or disaster situations may require the use of evacuation and/or shelter-in-place.

- 4.1.6. Snohomish County’s Hazard Identification and Risk Assessment (HIRA), Hazard Mitigation Plan (HMP), and Threat and Hazard Identification and Risk Assessment (THIRA) identify Snohomish County’s hazards and their potential and estimated consequences. This includes impacts to residents, buildings and infrastructure, the economy, and the natural environment. The HIRA identifies those hazards the County is at risk of as the basis for an all-hazards approach to preparedness, mitigation, response, and recovery. Additionally, the THIRA is updated every three years by the Seattle Area Urban Area Security Initiative. The top hazards that would likely trigger evacuation and/or shelter-in-place include flooding, dam emergency, wildfire, volcano/lahar, terrorism, and/or hazardous materials (HazMat) incidents as outlined in the Snohomish County HMP.

4.2. Planning Assumptions

- 4.2.6. Incidents requiring evacuation and shelter-in-place may result from events with adequate notice, limited or insufficient notice, or no notice. Sufficient warning time may or may not be available to evacuate the threatened population. Not all portions of this evacuation Annex may be linear, or executable based on the amount of notice allotted for the incident. Some resources, especially contracted transportation resources, may not be available for operational use during no-notice events.
- 4.2.6. While many residents will follow evacuation orders, some residents will not.
- 4.2.6. Evacuees will include populations needing additional assistance in the evacuation and/or sheltering process, individuals evacuating with pets or livestock, and individuals who may be subject to additional legal constraints.
- 4.2.6. Zone-based evacuation and shelter-in-place operations will occur concurrently with other incident response activities. Snohomish County agencies must prioritize scarce resources to protect lives and achieve desired end states.
- 4.2.6. The principal mode of transportation for evacuees in Snohomish County will be privately owned vehicles, using a network of city, tribal, state, federal and county roads.
- 4.2.6. Additional accommodations will be needed for those with AFN during a disaster.
- 4.2.6. Some areas may have large concentrations of Critical Transportation Needs (CTN) populations and will require more resources than other zones evacuating.
- 4.2.6. Mobile homes and other non-durable dwellings may pose a hazard in themselves and require evacuation in areas that would not otherwise evacuate.
- 4.2.6. Snohomish County recognizes the special needs of children affected by disaster. Parents, families, guardians, schools, and community resources are best positioned to care for each child’s unique needs.
- 4.2.6. Snohomish County institutions, including schools, hospitals, rehabilitation centers, nursing homes, assisted living and congregate care facilities, prisons, jails, and other facilities, are responsible for maintaining their own evacuation and shelter-in-place plans with sufficient resources and authority to enact these plans. Facility-specific plans should be coordinated with Snohomish County or local jurisdictions.
- 4.2.6. Many first responders will be impacted by the disaster. In an incident requiring evacuation, some responders may be cut off by the evacuation zone and unable to respond to the disaster. Responders may also require employer flexibility to ensure their family’s safety first before reporting for work.
- 4.2.6. Snohomish County will need to engage special language services in certain communities in accordance with the Snohomish County Limited English Proficiency (LEP) Plan. Existing community resources, including industry, cultural, community, and civic groups can relay official protective action orders and information presented in English as well as, at a minimum, the languages identified in the LEP.

5. Organization and Responsibilities

5.1. Responsibilities Chart

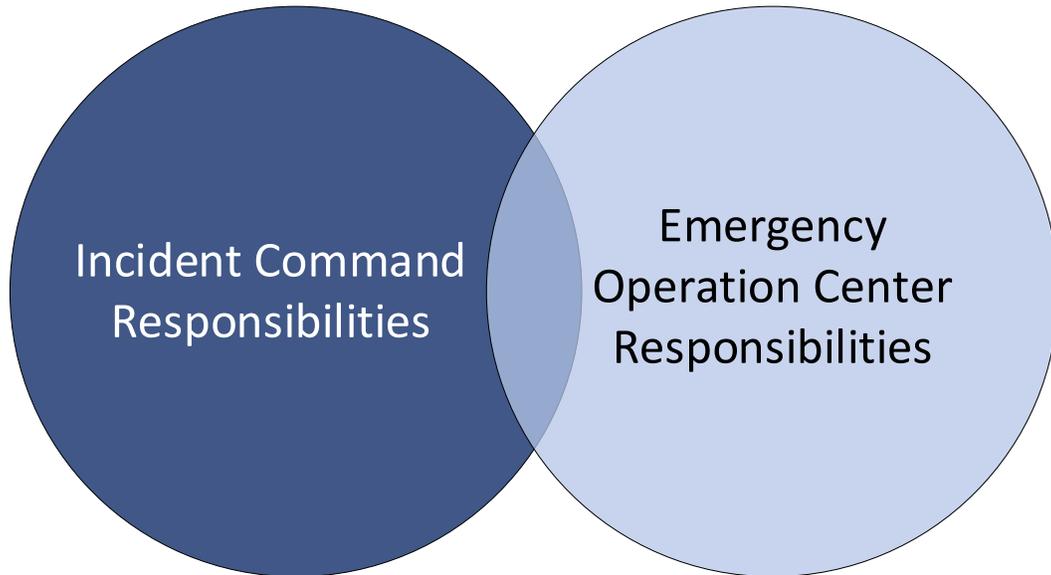


Figure 1. Responsibilities Chart

ICP Responsibilities

- Establish ICP
- Determine need and boundaries for Evacuation or Shelter-in-Place
- Communicate need and boundaries for Evacuation or Shelter-in-Place to EOC and partners
- Establish incident response priorities
- Disseminate critical information to response partners
- On-scene public alerting (e.g. door to door, bullhorns)

Responsibilities of both

- Support the evacuation
- Share information

EOC Responsibilities

- Activate EOC
- Coordinate with Sno911 to ensure delivery of Evacuation or Shelter-in-Place mass alerts to the public
- Establish a Joint Information Center
- Communicate incident updates to the public
- Provide support as needed to the ICP
- Coordinate mass care needs and evacuation facilities (see Table 2)

5.2. Lead Coordinating and Primary Agency Responsibilities and Tasks by Phase

Incident Command/Unified Command

- ✓ Required: Fire, Law Enforcement
- ✓ Potential: Chief Elected Official, Public Works, Public Health

Response

- Initiate evacuation.
- Establish evacuation zones and communicate them to the SCEOC for alert and notification, with Dispatch acting as a secondary alert sender.
- Establish and share with the SCEOC contingency triggers and guidance for “refuges of last resort.”
- Manage and coordinate emergency evacuation operations, including:
 - Zones
 - Routes
 - Collection points and reception centers
 - Traffic control and vehicle removal
 - Perimeter control.
- Advise the EOC on evacuation scope, type, duration, and unmet resource needs.

Recovery

- Manage and coordinate re-entry.

ESF #1: Transportation

- ✓ Lead Coordinating Agency: Snohomish County Public Works - Roads
- ✓ Primary Agency: Public Works, Community Transit, Everett Transit, Sound Transit, Amtrak

Response

- Support established evacuation routes.
- Close access to County roads.
- Conduct debris removal, prioritizing emergency transportation routes and identified evacuation routes.
- Provide traffic control resources including barricades, variable messaging boards, and traffic signal adjustments.
- Coordinate traffic management and evacuation route signage among local jurisdictions, Washington State Department of Transportation (WSDOT), and other transportation resources and agencies.
- Monitor traffic flow and condition of evacuation routes (including roads and bridges) and notify County EOC of potential problems.

Recovery

- Support re-entry, under direction of ICP and the SCEOC.

ESF #3: Public Works and Engineering

- ✓ Lead Agency: Snohomish County Public Works
- ✓ Primary Agencies: Snohomish County Facilities Management; Snohomish County Planning and Development Services; Washington Department of Transportation

Preparedness

- Construction and maintenance of emergency access roads and communication support.

- Identify traffic control points on through routes for each hazard. These are generally preplanned but may be established as needed based on the incident.

Response

- Assist first responders in clearing of roads and traffic control.
- Provide building, infrastructure, and damage assessment inspections to support sheltering and re-entry operations.
- Provide personnel and equipment to evaluate bridges and roadways, and to begin restoration of ingress and egress.

ESF #4 /10: Firefighting and EMS/Hazardous Materials

- ✓ Lead Agency: South County Regional Fire Authority, on behalf of the Snohomish County Fire Chiefs Association
- ✓ Primary Agency: Snohomish County EMS

Preparedness

- Identify available resources to facilitate rescues.
- Develop contingency plans for fire, HazMat, and EMS response for areas that are isolated.

Response

- Assist in the evacuation process as required including identifying and announcing evacuation routes, primary and secondary evacuation routes, re-entry routes, responder routes, triage points.
- Support emergency incident communications.
- Support interoperability of communications.
- Establish and maintain perimeters on hazardous materials incidents.
- Rescue trapped victims and victims in the hazard zone.
- Support resource requests through State Fire Mobilization and the SCEOC.
- Provide recommendations on shelter-in-place procedures.
- Establish evacuation perimeters if the release of hazardous materials is the cause of the evacuation.
- Initiate decontamination for evacuees and/or responders, if necessary.
 - Work with ESF 6 and ESF 8 to identify appropriate locations for decontaminated evacuees.

ESF #5: Emergency Management

- ✓ Lead Agency: Snohomish County Department of Emergency Management
- ✓ Primary Agencies: All ESF Partners, Washington Military Department

Response

- Coordinate resource requests in accordance with applicable processes.
- Support alert and warning processes.
- Share situational awareness across responding agencies.
- Coordinate and track necessary essential elements of information including evacuation routes, shelters, displaced population, remaining population, and resources (available, allocated, and scarce).

ESF #6: Mass Care

- ✓ Lead Agency: Snohomish County Department of Human Services
- ✓ Primary Agencies: American Red Cross – Snohomish County Chapter, SOAR4, Community Organizations Active in Disaster

Preparedness

- Establish and maintain emergency sheltering facilities in accordance with applicable processes and resources.

Response

- Advise on evacuating populations that were experiencing homelessness before the emergency. Work in conjunction with ESF 13, the Office of Neighborhoods, and not-for-profit agencies.
- Assist in identifying short- and longer-term housing options.
- Provide representative to the Joint Information Center (JIC) to support sheltering messaging.
- Coordinate with social service organizations, faith-based communities, and advocacy groups to establish and operate evacuation facilities and provide mass care and human service supports to impacted populations.
- Coordinate disaster behavioral health for evacuees, as needed.

ESF #8: Public Health

- ✓ Lead Agency: Snohomish County Health Department
- ✓ Primary Agencies: Northwest Healthcare Response Network, Washington State Department of Health, Washington State Department of Social and Health Services

Response

- Coordinate access to medication and durable medical equipment for evacuees.
- Conduct facility-specific applicable inspections.
- Coordinate with Department of Health and Washington System for tracking resources, alerts, and communication to support the tracking of patients evacuated to other medical facilities or transported to medical facilities.
- Provide technical assistance to minimize exposure to hazardous substances, including advising first responders on minimizing their exposure, and approving health risk messages to the public.

ESF #9: Search and Rescue

- ✓ Lead Agency: Snohomish County Sheriff's Office
- ✓ Primary Agencies: Fire Agencies, Law Enforcement Agencies, Sno911

Response

- In life-safety situations, rescue persons unable to transport themselves out of harm's way.
- At the direction of the Sheriff's Office, conduct evacuation notices or provide traffic control.
- Working through the SCEOC with ESFs-4, -6, -8, and -13, identify populations in need of additional evacuation support.
- Work only in areas that are safe for the occurring hazard and to their level of training and personal protective equipment (PPE). These areas should be clearly designated with communications in place among each team or member so that any changes to safe areas is efficiently communicated.

ESF #11: Agriculture and Natural Resources

- ✓ Lead Agency: Snohomish County Department of Conservation and Natural Resources
- ✓ Primary Agencies: Snohomish County Auditor's Office (Animal Services), Human Services, transportation agencies, local and state parks, natural resources agencies, animal welfare organizations

Response

- Provide access to buildings, equipment and resources that may be used to facilitate evacuations and sheltering (including sheltering of animals and livestock in coordination with the Animals in Disaster Plan) which may include temporary evacuation locations or staging sites for resources and personnel.
- Help coordinate animal evacuation, in accordance with IC's direction.
- Coordinate evacuation and transportation assistance for people with pets who require assistance.
- Coordinate with receiving shelter site(s) regarding number of incoming pets, estimated arrival times, special planning needs for animals with health/medical conditions.
- Coordinate all aspects of evacuating and sheltering animals and livestock as identified in the Animals in Disaster Plan.

ESF #13: Law Enforcement

- ✓ Lead Agency: Snohomish County Sheriff's Office
- ✓ Primary Agencies: Law Enforcement Agencies, Sno911

Response

- Direct evacuation operations including making notifications, traffic control and direction in coordination with the IC/UC.
- Coordinate establishing and maintaining perimeter and security in coordination with other law enforcement agencies.
- Coordinate providing traffic and crowd control.
- Coordinate security for sheltering facilities as requested.
- Provide security for evacuation routes and control access to incident scene. Patrol evacuated area and properties.
- Provide assistance to fire agencies if evacuations are due to hazardous materials or wildfires, consistent with applicable PPE, training, and procedures.
- Support traffic closure on State routes.
- Record evacuation contacts, attempted contacts, and refusals.
- As resources are available, support responsible law enforcement agencies as requested as they evacuate incarcerated individuals in accordance with their established plans.
- The chief elected official (or designee) has the authority to close county roads and to restrict access to and from all areas of the affected jurisdiction(s).
- Law enforcement / public safety has the authority to remove stalled and parked vehicles which impede the flow of traffic.
- Snohomish County Corrections Bureau will determine the need for evacuation from the County Jail and coordinate transportation for incarcerated individuals.

ESF #14: Cross Sector Business and Infrastructure

- ✓ Lead Agency: Snohomish County Economic Development
- ✓ Primary Agencies: Snohomish County Department of Emergency Management, Chambers of Commerce, Economic Alliance of Snohomish County, SOAR4, privately held infrastructure owners, private industry

Preparedness

- Serve as a clearinghouse and repository of business preparedness guidance that is developed by ESF 14 participants or provided by DEM or other sources.
- Inform and orient the business and industry/infrastructure partners on the contents of the annex and encourage development and coordination of equivalent private-sector planning.

Response

- Serve as the designated point of contact for Snohomish County businesses in the EOC.
- Coordinate receipt of pre- and post-incident assessment information from the business community and infrastructure owners/operators.
- Coordinate receipt and distribution of resources received from the private sector in partnership with the Snohomish County DEM EOC.

Recovery

- Administer collaborative efforts to bring private sector resources (services, personnel, commodities) to recovery efforts as needs are identified by the Snohomish County DEM EOC through communications with the private sector.
- Provide status information on the recovery efforts of key private-sector industry critical infrastructure owners and operators.

ESF #15: External Affairs/Public Information

- ✓ Lead Agency: Snohomish County Department of Emergency Management
- ✓ Primary: All Public Information Officers

Preparedness

- Develop and maintain pre-scripted and translated shelter-in-place and evacuation messages.

Response

- Work with partners to activate and operate a Joint Information System and Joint Information Center in accordance with published plans.
- Provide evacuation information to 9-1-1 and 2-1-1, including information for people with access and functional needs.
- Deliver coordinated messages via social and traditional media as outlined in published plans.
- Monitor public feedback and conduct rumor control.
- Coordinate with GIS in the SCEOC to maintain the Snohomish County Public Safety Hub with real-time information about evacuations, shelter-in-place guidance and maps of affected areas.

5.3. Support Agency Responsibilities and Tasks Across All Phases of Emergency Management

American Red Cross – Snohomish County Chapter

Purpose Statement: identify shelter locations and assist Snohomish County in sheltering evacuees.

Tasks:

- Identify shelter locations within Snohomish County.
- Support shelter operations.

Community Transit (CT)

Purpose Statement: support evacuation operations with coaches and operators.

Tasks:

- Provide coaches and coach operators.
- Assist in pre-identification of pick up sites for evacuees.

Cities/Towns/Tribes

Purpose Statement: support evacuation and shelter in place operations.

Tasks:

- Assist the ICP and EOC with identifying residents who may need additional assistance evacuating or sheltering in place.
- Assist the EOC in identifying trusted organizations within their communities who can support evacuation and shelter in place operations.
- Municipal and Tribal departments will support and guide the various responsibilities noted in Section 5.2 above consistent with jurisdictional authorities and capabilities.

Sno911 (Public Safety Answering Point)

Purpose Statement: residents may use Sno911 as an information resource or to request help during an evacuation or shelter-in-place operation.

Tasks:

- Issue emergency public alerts (WEA, EAS, Reverse 911) at the request of the ICP.
- Consider assigning a dedicated dispatcher, or dispatchers, to the incident if staffing levels permit.
- Refer non-emergency calls to 2-1-1 or a call center, if activated.

Washington State Department of Corrections (DOC)

Purpose Statement: maintain facilities within Snohomish County and manage the evacuation or sheltering of their custodial populations.

Tasks:

- DOC has the authority to issue an evacuation for the facilities within their purview. DOC will coordinate the evacuation of incarcerated individuals in their custody, namely Monroe Correctional Complex.
- DOC will coordinate with local agencies via the State EOC.

Washington State Emergency Management Division (WAEMD)

Purpose Statement: assist in operations that extend beyond the capabilities or resources of the County, or that involve multiple jurisdictions.

Tasks:

- Activate the SEOC.
- Coordinate state and federal resources not actively engaged with local command structures including fulfilling available state resources and requesting federal resources.

WA State National Guard

Purpose Statement: may assist in operations that require additional support beyond the capabilities or resources of the County.

Tasks:

- May assist with door-to-door notifications in safe areas and consistent with their training and PPE.
- May provide security for evacuation routes, evacuated area, and re-entry.
- May provide transportation assets.
- May provide aviation assets.
- May provide medical assets.
- May provide Chemical, Biological, Radiological, Nuclear, & Explosive (CBRNE) assets.

School Districts

Purpose Statement: maintain evacuation plans for facilities and possibly provide facilities for sheltering operations.

Tasks:

- Develop and maintain evacuation plans for students and faculty. Share plans with local law enforcement, fire resources, and emergency management.
- Share student evacuation plans with parents to ensure parents understand what to expect and can act accordingly.
- Implement shelter-in-place and/or evacuation options, as needed.
- Coordinate with the ICP and, when necessary, integrate with unified command.
- Provide school facilities as staging areas or temporary evacuation points when necessary and feasible.
- Coordinate reunification of students and support reunification for other evacuees as appropriate.
- Provide transportation assets as available.

WA State Department of Transportation

Purpose Statement: maintain authority over any State road within the County.

Tasks:

- Assist in messaging for any county shelter-in-place or evacuation involving State routes in the County.
- Traffic control and detour management along State routes within the County.
- Maintain traffic management, road closure authority, contraflow authority over all state routes within the County.
- Gather roadway data and share as necessary with the County.
- Notify SCEOC of incidents which may impact the County.
- Maintain communications with IC/UC and the SCEOC.

Washington State Patrol

Purpose Statement: may assist the County and other agencies in providing additional security or support as needed.

Tasks:

- Provide incident command or send resources to support incident command during HazMat incidents.
- Traffic control and detour management along State routes within the County.
- Assist in traffic management during evacuations.

5.4. Direction and Control

5.4.6. Evacuations are frequently complex and evolving operations that involve multiple agencies and can stretch on for longer durations, requiring careful direction and control.

5.4.6. Snohomish County EOC will act as the primary point of contact for partner agencies not represented at Incident Command, neighboring jurisdictions, and the State regarding evacuation and shelter-in-place coordination efforts.

5.4.6. The State will receive information regarding evacuation and shelter-in-place operations undertaken at the local level through information communicated to the SEOC by DEM or the SCEOC.

5.4.6. Coordination with neighboring counties

- Hazards may necessitate evacuation of Snohomish County residents into neighboring counties. Alternatively, hazards in neighboring counties may push their evacuees into Snohomish County. In either instance, the SCEOC will coordinate with emergency managers from neighboring counties to ensure that shelter and evacuation assistance are made available to evacuees.
- Initial coordination will take place between the DEM Duty Officer and the Duty Officer or Sheriff's Office in the neighboring county. For more serious incidents, EOC activation is likely, in which case coordination will take place between EOCs.
- Snohomish County will partner with the American Red Cross and local nongovernmental organizations (NGOs) to establish and staff shelters for any evacuees originating from neighboring counties. If the capacity of the American Red Cross and local NGOs is exceeded and County assets are required, Snohomish County will seek reimbursement for any costs associated with sheltering residents from neighboring counties.

5.4.6. Coordination with the State

- The State will support coordination amongst neighboring counties if (1) interlocal agreements have been exhausted within Snohomish County, (2) another county requests State assistance, or (3) the State's conditions for activations have been met. When assessing the need for activation of regional coordination, Snohomish County should determine if the actual or potential incident:
 - Has regional impacts
 - Threatens multiple jurisdictions
 - Requires multi-jurisdictional sharing and allocation of resources
 - Requires multi-jurisdictional capacity to meet mass care and human service needs
 - Requires a unified, coordinated public message

- If any of the above statements are true, Snohomish County should contact the State to initiate a conference call with impacted jurisdictions, area counties, and the SEOC. More generally, evacuations involving two or more jurisdictions within an area will be coordinated through collaboration with the State.
- If required, the SEOC will participate or listen in to area coordination calls. The organizations typically represented in these calls include State partners and representatives from WSDOT, Washington State Patrol, Washington State Department of Health, and Washington State Department of Social and Health Services.
- The nature of an incident will determine the pace of an initial assessment and any resulting actions from the State. Flexibility and scalability are key conceptual elements of state response for evacuation operations.
- A county fire coordinator appointed by the Fire Chiefs Association maintains a County Fire Resource Plan. A regional coordinator appointed by the NW Region Fire Defense Board as outlined in RCW 43.43.963 (Snohomish County is within the NW Region) maintains the Regional Fire Mobilization Plan. The State Fire Marshal’s Office maintains the State Fire Mobilization Plan on behalf of local fire agencies. Requests for mobilization of fire agency resources originate with the Fire Chief – or their designee – of the affected or threatened fire jurisdiction.

5.4.6. Federal Coordination

- With the exception of certain functions like public assistance grants or other recovery efforts, Snohomish County EOC will rely on the SEOC to facilitate operational communication and coordinate with FEMA’s Region X Regional Response Coordination Center.

5.4.6. Mass Care Information Sharing

- From the SEOC, ESF-6 will take the lead on coordinating the sheltering of people while ESF-11 (Animal Services) will take the lead on the sheltering of animals. Information on sheltering will be conveyed to State-level ESF-5, -8, -11, and -15 to ensure that shelter status is known and supported across agencies and jurisdictions.
- Upon opening a shelter, the SCEOC ESF-6 desk (or DEM Duty Officer if SCEOC is not activated) will share the following information with the IC/UC and the jurisdiction:
 - Location of the shelter
 - Capacity
 - Expected number of residents evacuated or requiring sheltering
 - Expected duration of opening (hazard dependent)
 - Expected resource or staffing needs
- Information regarding shelter locations will also be shared directly with the ICP and uploaded on to the Snohomish County Public Safety Hub and SnoCOP. ESF-6 will coordinate with the American Red Cross for information on the number of people sheltered and any special assistance required.
- Unaffiliated shelters are not approved for State resources or staff but should be communicated to the SCEOC so that they can be tracked and notified of any situational changes that may impact them.

5.5. Resources Assessment Section

5.5.6. Resourcing for an evacuation, especially a larger one, will likely be a complex undertaking. Resourcing for shelter-in-place, while less intensive and demanding than an evacuation, may still be extensive. For both evacuation and shelter-in-place, agencies are expected to conduct resourcing according to their agency’s processes. The information below represents only a snapshot of resources that might be leveraged for a major evacuation or shelter-in-place event.

5.5.6. Evacuation Facilities

- Specific sites may be required to address the individual needs of evacuees for the human services aspects of evacuation. The intent of evacuation facilities planning is to develop options and to determine available facilities to support an evacuation, note gaps, and inform efforts to fill gaps, not to prescript evacuation facilities.
- Snohomish County communities and neighboring jurisdictions who may have individual evacuation and mass care plans can use them as the basis for their site planning. Depending on the incident, these sites may be supported by one or multiple jurisdictions and the home county. For a large-scale incident, the type of site will largely depend on the classification of the local jurisdiction (i.e., sending, pass-through, or host). Based on the incident, the evacuation facilities summarized in **Table 2** could be employed:

Type of Site	Definition
Evacuation Assembly Point	A temporary location outside the hazard area exclusively for evacuation embarkation and transportation coordination in a field setting. Basic life sustaining services are not generally available.
Emergency Respite Site	A location along an evacuation route that can support transportation-assisted evacuees and self-evacuees. Respite sites may include fuel stations, restroom facilities, and water. A secondary consideration after assembly points, hubs, and shelters. ESF-7 will be the lead for Emergency Respite Sites with ESF -6 in support.
Regional Hub Reception Center (RHRC)	A regional facility where those displaced by the incident can receive assistance in identifying the most appropriate shelter location for their needs. RHRCs are typically employed during significant multijurisdictional, multiregional events.
Shelter	A facility where evacuees without an endpoint destination can be evaluated and provided disaster services from government agencies and/or pre-established voluntary organizations. This facility is designed for stays of less than seven days. Meals and water will be available. Basic first aid, pet sheltering (if applicable), sleeping quarters, hygienic support, and basic disaster services (counseling, financial assistance and referral, etc.) should also be available.

Table 2. Evacuation Facilities

5.5.6. Mass Care Facilities

- For information regarding mass care and sheltering operations, please refer to the ESF-6 Annex. Mass care and sheltering operations will be led by ESF-6 and supported by the American Red Cross.

5.5.6. Staff

- DEM Duty Officer: The Snohomish County Duty Officer is on call 24/7 and acts as the emergency point of contact for DEM. The Duty Officer will make the initial determination of whether to escalate an event and enlist additional emergency management resources or equipment.

5.5.6. Equipment

- The Mobile Information Technology Response Unit (MITRU) is a mobile trailer that can provide additional technological capabilities to an incident, including internet access, power, and monitoring capabilities.
- Sheriff’s Office Resources:
 - Inflatable Boats
 - Hovercrafts
 - River-sleds
 - 4x4 Off-road Vehicles

5.5.6. Transportation Resources

- Snohomish County has access to both public and private school buses, motor coaches, vans, paratransit vehicles, and taxis. The following ESFs listed in **Table 3** below provide some level of coordination and engagement for transportation resources:

ESF	Role
ESF-2	Issuing radios or other communications resources for individuals and organizations transporting populations with CTN, including their service animals.
ESF-6	Coordination with nonprofit human services agencies to request and engage their transportation resources.
ESF-7	Resource acquisition, coordination, and allocation (working closely with ESF-1 and local transportation resources). Coordination with transit agencies, school districts, and local jurisdictions to request and engage their transportation resources as available.
ESF-8	Coordination with care facilities for the transportation of individuals requiring medical and specialty care.
ESF 9	Rescue of persons unable to transport themselves out of life safety situations.
ESF 11	Coordination for pets, large service animals, and livestock during evacuation operations (Animal Services).

Table 3. ESF Roles in Transportation

- Please reference the Vulnerable Population Transportation Framework for more information on transportation resources appropriate for CTN populations.

5.5.6. Traffic Management Resources

- ESF-1, ESF-3, and ESF-13 have resources available for traffic control and management and maintain responsibility for coordinating these resource allocations. These resources are used in daily operations but can be repurposed for disaster use. Resources will be requested through the normal process (i.e., from the field to the local jurisdictions to the County and then to the State, exhausting Interlocal Agreements (ILAs) and mutual aid agreements as appropriate).
- Available resources include various types of barricades, cones, message boards, and personnel. The use of volunteers for traffic control and management will follow local processes and procedures.

5.5.6. Fuel Management

- During an evacuation, extremely high demand combined with damage to infrastructure that prevents refueling may create fuel scarcity, particularly in certain parts of the County.
- On a limited basis, emergency responders can transport small amounts of fuel to highly impacted communities. Jurisdictions can request fuel assistance through the SCEOC resource request process after exhausting interlocal agreements.
- For smaller evacuations, fuel resources can be tracked using third-party applications. If the need for large-scale fuel management arises, it will be coordinated at the State level, with support by ESF-14.

5.6. Information Collection, Analysis, and Dissemination

This section demonstrates how information should flow during an incident: from the field to local EOCs and FEMA and back with support from the Joint Information System. Information originates from many sources as depicted in **Figure 2** below. It's shared in a variety of ways, such as traditional and social media, webpages, online communications platforms, and standard means like radios, phones, email, etc.

Starting with the Incident Commander and the Incident Command Post, it flows to the relevant partners and SCEOC, to the public when applicable and on to the WA State EOC and FEMA. Types of information include status updates, response priorities, resource requests, and situational awareness. Flowing the opposite direction from FEMA and the WA State EOC, into the SCEOC, and out to the field and community the types of information include public alerts and information, resource status, key situational awareness, and Incident Action Plan objectives.

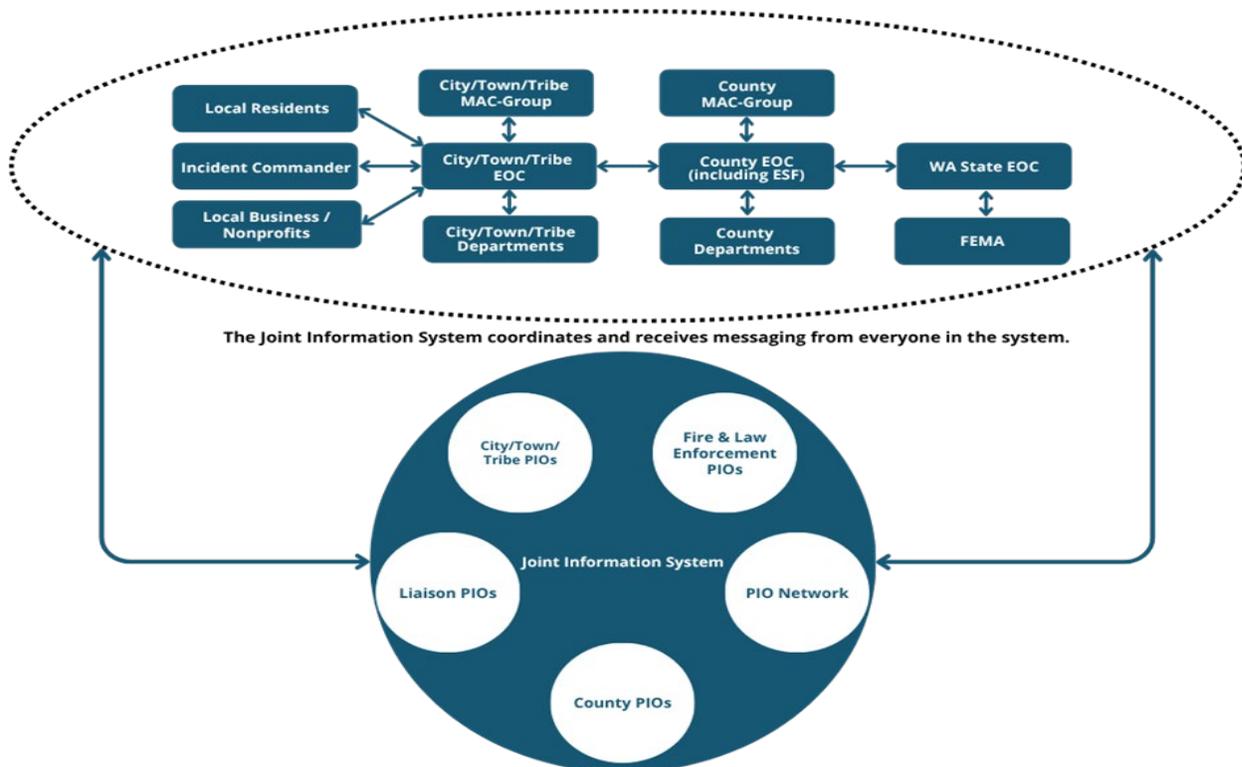


Figure 2. Information Collection, Analysis, and Dissemination Flow Chart

5.7. Essential Elements of Information

Essential Elements of Information (EIs) are critical intelligence information that agencies and responders need to successfully and efficiently respond to an emergency. EIs may be used to support the development of a common operating picture, timely decision making, and a data-informed understanding of the supply chain. It is likely that, due to the unpredictable nature of disruptive events, each incident will require incident specific EIs that will need to be developed in real time. **Table 4** below provides examples of the kinds of information collected during an emergency requiring evacuation or shelter-in-place, as organized by FEMA's Community Lifelines. Together, this information will provide a picture of how well the County as a whole will be able to ensure the continuous operation of critical government and business functions and provide for health, safety, and economic security.

Community Lifeline	Essential Elements of Information
 Safety and Security	<ul style="list-style-type: none"> • Location and nature of the hazard • Evacuation zones and routes • Population of impacted areas • Evacuation lead time • Movement of the hazard and key triggers for further evacuation • Weather forecasts • Necessary protective measures • Status of evacuation • Status of evacuation messaging • Status of public safety and governmental facilities requiring evacuation • Local, State, or Federal emergency disaster declaration • Impacted critical infrastructure • ILA resource and assistance requests • Economic impacts • Social Media monitoring, including how the community is reacting to the hazard and the call for evacuations
 Food, Hydration, Shelter	<ul style="list-style-type: none"> • Locations and details of relocation centers • Locations and capacity of shelters • Locations and details of shelters able to accommodate pets, AFN populations, etc. • Status of other evacuation facilities • Status or availability of life-sustaining supplies needed for feeding, sheltering, sanitation (such as porta potties and shower facilities), durable medical equipment, and medical supplies • Availability of bottled water • Areas of critical resource needs
 Water and Wastewater	<ul style="list-style-type: none"> • Impacted water systems • Areas of critical resource needs
 Health and Medical	<ul style="list-style-type: none"> • Total number of patients evacuated from medical facilities • Status of medical and long-term care facilities requiring evacuation • Status and capacity of medical and long-term care facilities receiving evacuees • Locations, capacity and status of medical needs shelters • Public health measures applicable to shelters
 Energy	<ul style="list-style-type: none"> • Status of the electrical grid and locations of known outages • Estimated time to restoration of services (when safe to do so) • Status of emergency power to support critical infrastructure and assets

 <p>Communications</p>	<ul style="list-style-type: none"> • Status of communications infrastructure • Locations with known service outages within the County • Status of emergency alert systems • Status of law enforcement dispatch and emergency services
 <p>Transportation</p>	<ul style="list-style-type: none"> • Transportation closures (roads, airports, ports, rail, etc.) • Staging locations for transportation vehicles • Embarkation points for evacuees • Destinations • Evacuation paths • Fuel resources • Emergency respite sites and emergency vehicle maintenance locations • Evacuee tracking
 <p>Hazardous Material</p>	<ul style="list-style-type: none"> • Nature of the spill and the resulting health hazards • Status of HAZMAT response capability • Applicable public health or shelter-in-place measures • Environmental impact of the spill, such as impacts to groundwater

Table 4. Essential Elements of Information by Community Lifeline

6. Concept of Operations

6.1. General

6.1.6. Shelter-in-Place Strategies

- Sheltering-in-place is the preferred strategy whenever possible to minimize disruption to the community and provide rapid protection to the public. Shelter-in-place is not appropriate for all incidents or zones and depends on the needs of the impacted population and the status of critical lifelines available to support the community.

 Strategy: Shelter-in-Place		
Residents remain in their homes		
Pros	Cons	Uses
<ul style="list-style-type: none"> ✓ <i>Fastest action to employ</i> ✓ <i>Less costly and disruptive</i> ✓ <i>Preferable in poor weather conditions</i> 	<ul style="list-style-type: none"> ✗ <i>Not safe in all hazards</i> ✗ <i>Short-term protection only</i> ✗ <i>Dependent on resource availability at location of shelter</i> 	<p>This is the default strategy unless evacuation becomes necessary.</p>

Table 5. Shelter-in-Place Strategy

- The length of time for a sheltering-in-place operation depends on incident specifics. The IC/UC will re-evaluate the decision for a zone to shelter-in-place based on changing incident conditions, at least every operational period. As with evacuation, the final decision for shelter-in-place recommendations rests with IC/UC.
- Shelter-in-place may be used in combination with evacuation, as an alternative to evacuation in a zone or phased approach, when appropriate.
 - Mobile homes, homes in vulnerable locations, and substandard housing in identified zones may not be suitable for shelter-in-place and may require limited, local evacuation and mass care reception/comfort/sheltering in accordance with Snohomish County mass care/sheltering plans.

6.1.6. Evacuation Strategies

- Evacuation Zone and Route Identification
 - When possible, the IC/UC should organize evacuations by zones. This prioritizes the movement of the most at-risk areas, limiting the need for evacuating large areas that are not under the threat of a hazard. Zones also aid in decision making and resource management by helping responders estimate clearance times, shelter demand, transportation requirements, participation rates, lead and lag times, and AFN support requirements. Zones should be based on recognizable landmarks or boundaries, such as known neighborhoods and major roads, so that they are clearly recognized by residents and visitors to reduce confusion during an evacuation.

- Zones and routes are determined by the IC/UC based on current and forecasted hazards, available evacuation routes, and to prioritize the most at-risk populations. Snohomish County has pre-identified zones for Glacier Peak (lahar hazard) and Culmback Dam (dam emergency). These zones are available for review at SCEOC. Zone information is communicated to the public during emergencies via the public alert and warning system (SnoCo Alerts), Snohomish County Public Safety Hub, social media, phone service, and broadcast radio.
- IC/UC will communicate evacuation zones and routes and shelter-in-place zones to Sno911 for public alert and warning. Sno911 will notify the SCEOC so it can coordinate with impacted jurisdictions and provide alerting support if needed.
- Once available, SCEOC will post a map of the evacuation and shelter-in-place zones to the Public Safety Hub and SnoCOP.
- Movement of Evacuees
 - Evacuees will largely rely on their own transportation methods to evacuate an area. In some cases, movement of evacuees will involve county or state assisted maritime or air transport. For more details concerning the evacuation of vulnerable populations, refer to the VPTF.
 - The following **Table 6** overviews potential evacuation models. These options are scalable and flexible to meet the needs of the incident. A Point-to-Point evacuation strategy will be the default model for the county. The decision whether to use a Hub-and-Spoke model will depend upon the event, the population being moved, and will be determined by the impacted jurisdiction(s). Definitions located in Section 11.

 Strategy 1: Point-to-Point Residents move directly to a shelter		
Pros	Cons	Uses
<ul style="list-style-type: none"> ✓ <i>Fastest evacuation action</i> ✓ <i>Most direct and streamlined</i> ✓ <i>Least resource-intensive evacuation concept</i> 	<ul style="list-style-type: none"> ✗ <i>May have limited capacity for very large displacements</i> ✗ <i>Not ideal if end-state unknown</i> 	This is the main evacuation strategy for the County.
 Strategy 2: Hub-and-Spoke Regional Hub Reception Centers (RHRCs)		
Pros	Cons	Uses
<ul style="list-style-type: none"> ✓ <i>Increased capacity</i> ✓ <i>Multiple levels of triage</i> ✓ <i>Provides layover to get large population out of harm's way</i> 	<ul style="list-style-type: none"> ✗ <i>Delayed onset</i> ✗ <i>Takes time to organize</i> ✗ <i>Requires additional resources</i> ✗ <i>Requires extensive coordination</i> 	This strategy will rarely be used, for instance in a terrorist or HAZMAT situation where decontamination is required.

Table 6. Evacuation Strategies

6.1.6. Tracking and Reunification

- In most cases, the County will not track evacuees. However, depending on the circumstances of the evacuation, SCEOC may establish a voluntary check-in procedure that enables evacuees to mark themselves as “safe” after they have evacuated from harm’s way.
- The impacted or host community will have ultimate say in which tracking system will be employed, however any electronic systems should also have redundant paper systems in case of a power outage.
- The SCEOC may need to provide evacuation assistance for certain vulnerable populations, like schools, childcares, or adult family homes. In those situations, the agencies ultimately responsible for custodial care will be responsible for a tracking solution that is appropriate to the number of transportees and their reason for transport. Typically, tracking will be done by these care agencies.

6.2. Procedures

6.2.6. Triggers and Activation

- The on-scene IC/UC is the most likely authority to trigger an evacuation.
- The County Executive has the authority to issue evacuation orders during a proclaimed emergency.
- The Governor may issue an evacuation order requiring evacuation of Snohomish County or requiring Snohomish County to serve as a pass through or host community.

6.2.6. Alert and Warning

- All DEM Duty Officers, Sno911 Supervisors, and Sno911 Operations Management can send emergency public alerts (reverse 911, Wireless Emergency Alerts – WEA, and Emergency Alert System – EAS). No other agencies will have access to send these alerts. Please refer to the Duty Officer Alert and Warning Procedure for more information on how alerts are targeted and sent.
- While it is impossible to pre-script message templates for every scenario, the DEM PIO maintains a library of pre-scripted public alert messages to improve the speed of evacuation and Shelter-in-Place alerts. This is particularly crucial for no-notice or limited-notice events.
- Aside from the public alert and warning platform operated by Sno911 and DEM, Snohomish County Fire District #5 operates a localized siren system in the Sultan area expressly for the purpose of notifying the community of Culmback Dam emergencies. Additionally, WA State Emergency Management Division operates three sirens along the Puget Sound; two in Everett and one in Edmonds, to warn the public of threatening tsunami activity.

6.2.6. Public Messaging

- Clear and consistent public alert messages are vital to life safety operations and should be consistent across the impacted area.
- DEM uses emergency public messaging to relay life safety information and complement the emergency public alerts. While it is impossible to pre-script message templates for every scenario, the DEM PIO maintains a library of pre-scripted emergency public information messages to improve the speed of evacuation and Shelter-In-Place messaging. Some messaging is pre-translated but standing County translation contracts can help with immediate needs. This is particularly crucial for no-notice or limited-notice events. These pre-scripted messages are available for other PIOs within the Snohomish County PIO network to use, to help ensure consistent messaging during an incident.
- The DEM PIO will follow evacuation messaging best practices, including using multiple, authoritative messaging channels; providing multiple ways for residents to access the message; messaging frequent, coordinated information; and providing information updates whenever they are available. To increase reader comprehension of the messaging, evacuation and shelter-in-place messaging will cover the following information:
 - A description of the hazard,
 - Protective action guidance,
 - The location and population at risk,
 - The anticipated timeline, i.e., when the protective action should be taken,
 - The name of the message sender or source, and
 - Wherever possible, potential hazard impacts or consequences.
- Snohomish County will use social media as a tool for public messaging throughout evacuation operations and monitor it for situational awareness. All emergency public alerts sent by DEM and the SCEOC should be followed up with posts on social media platforms and the Snohomish County Public Safety Hub.
- The Incident PIO will coordinate with PIOs from partner agencies and jurisdictions on critical issues, such as the issuance of evacuation orders, the status of evacuation infrastructure, mass care and human services availability, and reentry timing. In the event of a regional evacuation, Snohomish County will coordinate public messaging with other impacted counties.

6.2.6. Evacuation Messaging

- Evacuation messages must be coordinated with agencies responsible for transport, traffic control, and evacuee reception and sheltering. Confusing and/or uncoordinated evacuation orders can have unintended adverse consequences.
- Evacuation messages should address a variety of issues such as:
 - Direction and destination of travel;
 - Routes to be used and routes to be avoided;
 - Means of travel (by auto, by bus, on foot, etc.)
 - Things to take along (papers, medications, pets, etc.); and
 - Expected duration of relocation (a few hours, a day, etc.).
- Evacuation messaging should seek to fulfill the following objectives:

- Life safety, particularly reducing public exposure to hazards.
 - Urging people to avoid hazardous areas and to take appropriate protective measures. These steps may include sheltering in place or evacuating to safer locations.
 - Helping to connect those seeking information about loved ones with appropriate resources.
 - Identifying and managing rumors and inaccuracies to lessen the risk of false narratives and confusion.
 - Instilling public confidence in the ability of government and community partners to respond with teamwork and transparency.
- For more complex incidents, Incident Management Teams (IMTs) working for agencies having jurisdiction may be delegated authority to lead the response, including incident-level public information responsibilities. As these teams regularly rotate, which can affect continuity of messaging for longer-running incidents, close communication among incoming and outgoing PIOs is imperative. The initial incident PIOs and Joint Information System should be prepared to brief an incoming team on the specifics of the current public messaging strategy and share communications plans to promote consistency.

6.2.5. Shelter-in-Place Messaging

- Shelter-in-place language is consistent across many hazards. While DEM will update the language as appropriate for the hazard, the following instructions are likely to apply broadly to shelter-in-place scenarios:
 - Turn off all heating, cooling and/or ventilation systems.
 - Gather disaster supplies kit, pets and their food and water.
 - Close all doors and windows. Go into a small interior room that is above ground level and seal air vents, cracks around doors and windows of room with blankets, sheets, towels, plastic sheeting, duct tape or other such materials.
 - Do not use the fireplace or wood stove. Extinguish all burning materials. Close dampers.
 - Do not use the telephone unless you have an emergency so the lines remain open for emergency use.
 - Listen to your local radio or television stations and monitor the Snohomish County Public Safety Hub for further instructions.
 - Stay inside until notified that it is safe to go outside.
- Additional language is available from the DEM PIO for those shelter-in-place hazards that require residents to outfit their homes with protective measures to avoid contamination from airborne particles, such as some hazardous materials releases and extreme smoke events.

6.2.6. Translation and Accessibility

- Translations are available for pre-scripted messages in multiple languages, including Spanish, Russian, Korean, Vietnamese, Ukrainian, and Tagalog. These may be found through the Snohomish County DEM PIO and are likely to require modification to reflect disaster specifics. Resources such as like ASL interpreters and other language translators; videos with text; or websites that read text are important to provide multiple methods of messaging. During an emergency these will be identified and coordinated via standing contracts that Snohomish County holds or through the SCEOC to the WA SEOC.

6.3. Mobilization Phase

- 6.3.1. The Mobilization Phase begins with the identification of a threat or hazard that could lead to an evacuation or shelter-in-place order, and extends through the coordinated decision-making process, and dissemination of evacuation messages to the public.
- 6.3.2. IC/UC must notify the SCEOC and the dispatch center, other responding agencies, and local emergency management if an event requires an evacuation or shelter-in-place notice.
- 6.3.3. Mobilization will likely happen concurrently with other phases for no-notice events and low-notice events. The SCEOC will work closely with the impacted jurisdiction for any evacuation activity.
- 6.3.4. Evacuation Lead Time

- **Table 7** (following) summarizes Snohomish County hazards that might result in evacuation or SIP guidance. The table indicates whether responders are likely to have advance warning or notice before a hazard occurs, allowing for pre-emptive public messaging and emergency preparations. No-notice events occur suddenly and without any significant advance warning, giving little to no opportunity for pre-emptive public messaging and emergency preparations.

Hazard	Notice	No-Notice
Hazardous Materials		X
Weather Event (incl. windstorm, winter storm, and drought)	X	
Flooding	X	
Dam Failure		X
Wildfire		X
Mass Earth Movement		X
Volcano/Lahar	X	
Active Assailant		X
Tsunami	X	

Table 7. Notice and No-Notice Events

6.4. Evacuation/Transportation and Shelter-in-Place Phase

- 6.4.1. This phase includes implementation of the evacuation.
- 6.4.2. After the IC/UC establishes evacuation zones and routes, the SCEOC may be asked to coordinate transportation from evacuation zones, or local emergency management may arrange for transportation independently of the SCEOC, based on pre-existing relationships with transportation providers.

6.5. Impact Phase

- 6.5.1. This phase begins when the County begins to see the adverse impacts of a terrorism incident or other no-notice event.
- 6.5.2. Mobilization should be timed to complete before the impact phase takes effect. To this end, the SCEOC will ensure that all transportation partners and any volunteers are informed of evacuation clearance times.

6.6. Refuges of Last Resort

- 6.6.1. A "refuge of last resort" refers to a place where individuals can seek relative shelter and protection when all other options are exhausted or unavailable. This type of refuge is typically used when individuals cannot evacuate the area in advance of a hazard or when evacuation is not feasible due to various reasons, such as the rapid onset of the emergency or instances when evacuation routes have been made unsafe due to the movement of the hazard.
- 6.6.2. When establishing evacuation guidance, the IC/UC should include triggers for advising evacuees to seek out refuges of last resort. For example: if the fire gets past X landmark, anyone who has not gotten past Y landmark should be advised to abandon their cars and seek a refuge of last resort.
- 6.6.3. For dam failure: refuges of last resort may include tall buildings or the nearest high ground.
- 6.6.4. For lahar events: the only suitable refuge of last resort will be traveling to higher ground as quickly as possible, avoiding river valleys, channels, and low-lying areas, which can be quickly inundated by destructive debris flows.
- 6.6.5. For tsunami events: residents will be advised to seek vertical refuges of last resort at the highest point they can find to avoid the water.
- 6.6.6. For wildfire or similar events refuges of last resort may include:
 - Areas where there is little or no fuel (mowed pastures, large lawns, etc.)
 - Places where the fire has already burned
 - Natural features such as rock areas, water, or meadows
 - Constructed sites such as clear cuts, roads, or parking lots
- 6.6.7. While nearby rivers may be appropriate refuges of last resort, time of year may impact how safe certain bodies of water may be for sheltering. High water, cold, or ice may make rivers unsafe for prolonged periods of time. Further, river accessibility can vary greatly, even over short distances; what might be a gentle downhill walk from one highway point may lead to a steep cliff less than a mile away.
- 6.6.8. The risks of using a river as a refuge of last resort must be communicated clearly to the population that may need it.
- 6.6.9. As soon as the hazard has passed, people using refuges of last resort should be notified so they can seek longer term shelter or medical support as needed.

6.7. Mass Care Phase

- 6.7.1. After evacuees leave their home jurisdictions, they require coordination, shelter, and mass care. This phase will be led by ESF-6 and supporting partners according to their procedures. ESF-6 will work with the impacted jurisdiction(s) and the host jurisdiction(s) to determine suitable shelter for impacted individuals. For additional details, please refer to the ESF-6 Annex.

6.8. Re-Entry Phase

- 6.8.1. The County uses a phased approach to re-entry, summarized in **Table 8** (following). This approach allows only emergency response personnel access to impacted areas until hazardous conditions have been mitigated or have been abated for the public. Then, the coordinated transportation of evacuees back into the community will begin once the IC/UC determines that the area is sufficiently stable. Depending on the site and safety conditions, some residents may return before others or be allowed only temporary access to inspect their homes. In instances where evacuees are unable to return to their communities, this phase involves the relocation of individuals to new host areas. As such,

evacuation facilities may be used as venues to share re-entry or re-location information in accordance with established mass care plans.

Status to Public	Re-entry Phases
RED-CLOSED	<ul style="list-style-type: none"> Phase 1: Re-Entry Task Forces comprised of state and local response agencies, as well as certain key utility providers, can enter the impacted area and contain life-threatening hazards.
RED - CLOSED	<ul style="list-style-type: none"> Phase 2: Search and Rescue, emergency medical services, fire suppression, hazardous material control, preliminary damage assessment, essential relief staff, and immediate utility restoration to critical medical facilities.
RED - CLOSED	<ul style="list-style-type: none"> Phase 3: Public and private sector to support the reestablishment of critical infrastructure systems, including petroleum and food distributors, non-emergency medical facilities (such as dialysis centers), pharmaceutical providers, escorted members of the media, medical facility support staff, and local government essential workers.
GREEN - OPEN	<ul style="list-style-type: none"> Phase 4: Allows the public to access all or portions of the impacted area, as determined by local officials. Access may be restricted to daylight hours as the recovery process continues.

Table 8. Re-Entry Phases

6.8.2. Re-Entry Strategies

- The IC/UC will guide the transition from Phase 1 to Phase 2 and from Phase 2 to Phase 3. The transition from Phase 3 to Phase 4 may be guided by the IC/UC, or by the highest local elected official. When determining whether to begin the re-entry phase, at a minimum, the following conditions should be met:
 - The stability of critical infrastructure functions,
 - Minimal health and safety threats,
 - Sufficient systems and services to support viable, resilient communities,
 - Initial response processes, such as damage assessment and debris clearing are far enough along that they won't interfere with the return of residents,
 - Restoration of supply chains to the impacted area, and
 - Provision of fatality management services in the impacted areas.
- When planning for re-entry, the SCEOC will support the decision makers in coordinating with partners, including:
 - Law Enforcement, to ensure safety and security of those re-entering,
 - The PIO, to ensure that re-entry instructions are appropriately communicated,
 - The local government,
 - Partner agencies in charge of mass care, animals in disasters, debris clearance, and disaster recovery in accordance with Snohomish County's CEMP, and
 - Whole-of-community partners.
- AFN populations may require additional housing inspections and re-entry support to ensure their health and safety. Refer to the VPTF for additional information for AFN populations.
- SCEOC will work closely with host communities and the State to coordinate re-entry timelines. Coordination should also occur with whole community partners as necessary.

- Refer to the State’s Business Re-Entry Program for information regarding permits for critical infrastructure owners and operators and businesses to gain access to impacted infrastructure.
- ESF-6 and ESF-11 will coordinate to ensure animal return efforts are timed to align with owner re-entry. They will also coordinate with:
 - NGOs and volunteer organizations to assist recovery and re-entry efforts for vulnerable populations, and
 - Host communities and the State, regarding re-entry timelines.

7. Additional Planning Considerations

7.1. Transportation Management

- 7.1.1. Effective traffic management is critical. Concern over transportation challenges, such as traffic, roadway conditions, and gasoline availability reduces the chances that individuals will chose to evacuate. Additionally, threats to life safety can endanger individuals trapped in traffic jams, forcing them to flee on foot and exposing them to additional risks.
- 7.1.2. Evacuations of impacted communities with only a single route of ingress/egress should be initiated as early as is reasonable. Residents should be encouraged to evacuate promptly. State Highways 2 and 530 are known to have limited capacity, so any evacuations along those corridors fall into this category.
- 7.1.3. DEM recommends that, where practicable, WSDOT and/or County Public Works be involved at the ICP to provide data to the IC/UC to help support the evacuation efforts and the selection of evacuation routes and alternatives, depending on the location of the evacuation and the availability of data.

7.2. Traffic Management

- 7.2.1. WSDOT is responsible for traffic management along state highways, including road closure and contraflow. WSDOT and Washington State Patrol will consult with Snohomish County Public Works, Community Transit, the SCEOC, IC/UC, Snohomish County Sheriff’s Office and local law enforcement agencies, local fire agencies, and others as necessary when considering road closures and contraflow along States routes through Snohomish County.
- 7.2.2. For other roads, local and county Public Works along with the Snohomish County Sheriff’s Office and local law enforcement agencies, are responsible for traffic management, including road closure and contraflow. Washington State Patrol will assist as requested. For any county roads, contraflow should be determined between Snohomish County Public Works, Snohomish County Sheriff’s Office, local fire agencies, the SCEOC, and others as necessary.
- 7.2.3. Alternate forms of transportation may include the WSDOT marine highways via the ferry systems, military air capabilities, and railway support.

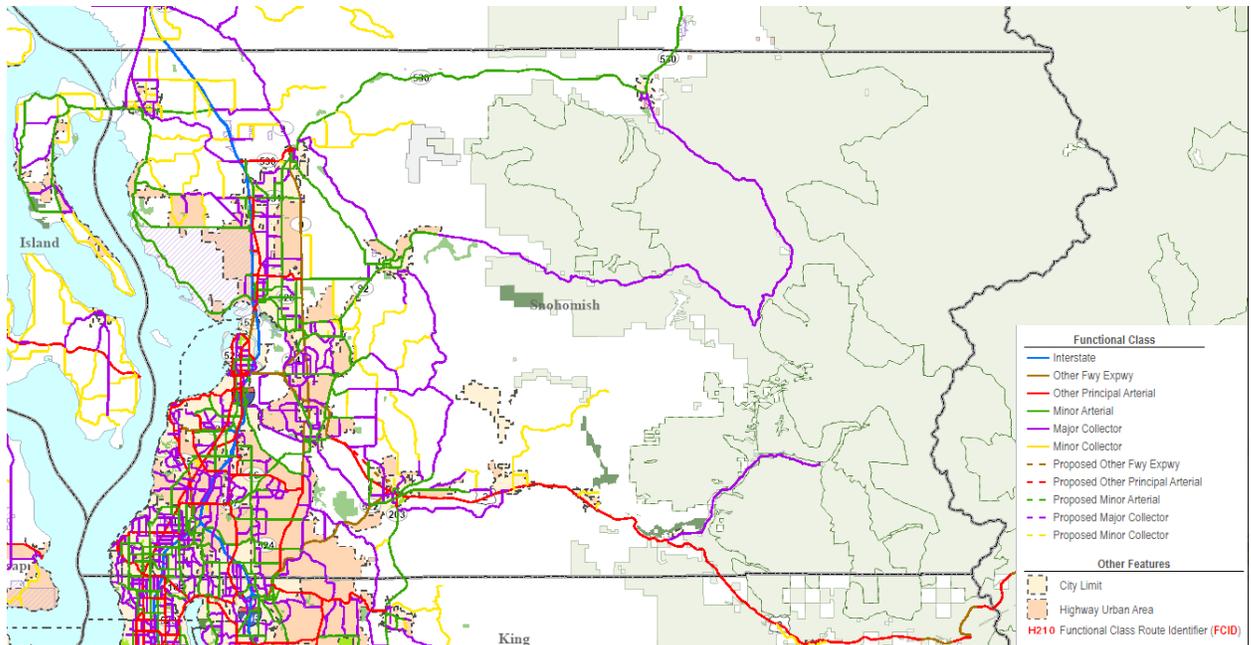


Figure 3. Map of WSDOT Roads in Snohomish County

7.3. Population Considerations

7.3.1. Time of Year

- Populations in the mountains and along the coast may vary according to seasonal recreational activities. Evacuation guidance should be clear to populations who are not familiar with the area. Additionally, traditional mass communications methods might not reach hikers, campers, skiers, and others in isolated areas.

7.3.2. Time of Day

- Evacuations which occur during the day and during the school year should account for the additional movement, communications needs, and reunification of school-aged children and faculty.
- When evacuation zones include schools that are in session, the JIS should coordinate public messaging with the affected school district(s).
- No-notice evacuations that occur during the workday may result in an increased number of people without personal transport, whether because a household's only vehicles or only drivers are at work. People may attempt to head into the evacuation zone to get their family and pets out.

7.3.3. Shadow Evacuees

- An additional consideration is potential "shadow evacuees", also referred to as spontaneous evacuees. These are evacuees who will evacuate regardless of directives by public officials due to their perception of danger.

7.3.4. Other Populations

- Snohomish County has many elderly community members throughout the County who lack access to vehicles. This is a particular concern in rural areas. Elderly residents and other vulnerable populations considerations are covered in greater detail in the VPTF.

7.3.5. Military Installations

- Evacuations of these facilities may impact Snohomish County's ability to implement shelter-in-place or evacuation orders due to differences in authority on military installations. As such, coordination with military installations will be managed through the Sno911 dispatch center and local and military emergency management offices.
- Snohomish County and all military installations should coordinate plans and messaging to citizens connected to military installations. Communications should direct citizens to listen to Snohomish County officials for evacuation and shelter-in-place guidance.

7.3.6. Incarcerated Populations

- The Monroe Correctional Complex in Snohomish County will make every effort to shelter-in-place. If evacuation is needed, coordination will take place through Washington State Department of Corrections and WAEMD.
- The County Jail is managed by the Corrections Bureau within the Sheriff's Office and currently has plans for shelter-in-place operations for up to two weeks.

7.4. Community Organizations

7.4.1. Community organizations play an important role in evacuation and sheltering. Community organizations often open shelters to support evacuees. Further, community organizations are important for outreach to and assisting with the movement of vulnerable populations.

7.4.2. ESF-6 and SOAR4 will lead efforts to coordinate with community organizations and will help ensure that community organizations active in any evacuation are apprised of all potential threats that may result from the hazard.

7.5. Household Pets, Animals, and Livestock

7.5.1. Any time people evacuate, they will want to bring their pets and livestock with them. The County should plan accordingly.

7.5.2. Animals in Disasters Appendix to ESF-11 – Agriculture and Natural Resources

- Special considerations should be given to the placement of animals within a shelter. ESF-6 will lead the effort to establish pet-friendly shelters with considerable support from ESF-1 and ESF-11. Household pets should evacuate with owners and accommodations made for them at or in human shelters.
- Service animals, and some assistance animals, are not pets and will be allowed to accompany their owner in all situations.

7.5.3. Animals and Livestock

ESF-11 (which includes both Animal Services and the Fair Park), will take the lead in organizing the sheltering and care of animals, including livestock. ESF-6 will act in a supporting role. Livestock are highly likely to be located separately from human and pet-friendly shelters. Potential locations for

livestock and large animal shelters include: the Fair Park, the Stanwood Fairgrounds, and the Darrington Rodeo Grounds. More information on livestock sheltering and evacuation can be found in the Animals in Disaster Plan.

7.6. Incident-Specific Considerations (maps excerpted from the Snohomish County Hazard Mitigation Plan located on the SnoCo DEM website)

7.6.1. Wildfire

- The wildland fire season in Snohomish County usually begins in May and ends with fall rain, typically in September or October. However, fires have occurred in every month of the year in the County, influenced by drought, limited snowpack, and local weather conditions.
- Wildfires are considered to be a likely hazard in Snohomish County with worst-case results. **Table 9** below describes areas of extreme and high risk.

Extreme Wildfire Risk	High Wildfire Risk
<ul style="list-style-type: none"> • The Squire Creek area west of Darrington. • The Swede Heaven community northwest of Darrington. • Oso, near Fuchsl and Entsminger Roads. • Two areas on Stimson Mountain northeast of Arlington. One is bordered by Grant Creek. The other is near Rock Creek and Grandview and Cedarvale Roads. • Along the Mountain Loop Highway east of Verlot, between the Gold Basin and Boardman Creek Campgrounds. • South of Sultan in the Youngs Creek area 	<ul style="list-style-type: none"> • North of Highway 530 from Grandview east to the Oso mudslide • Most of the high ground surrounding Darrington, including Gold and Jumbo Mountains • Much of the South Fork Stillaguamish River drainage, from Barlow Pass to Mount Pilchuck, Granite Falls, Jordan Road and Arlington Heights. • Much of the high ground above U.S. 2, from Gold Bar, east to Index and then to the County line near Baring. • High ground southeast of Monroe near Lake Fontal

Table 9. Extreme versus high risk of wildfire

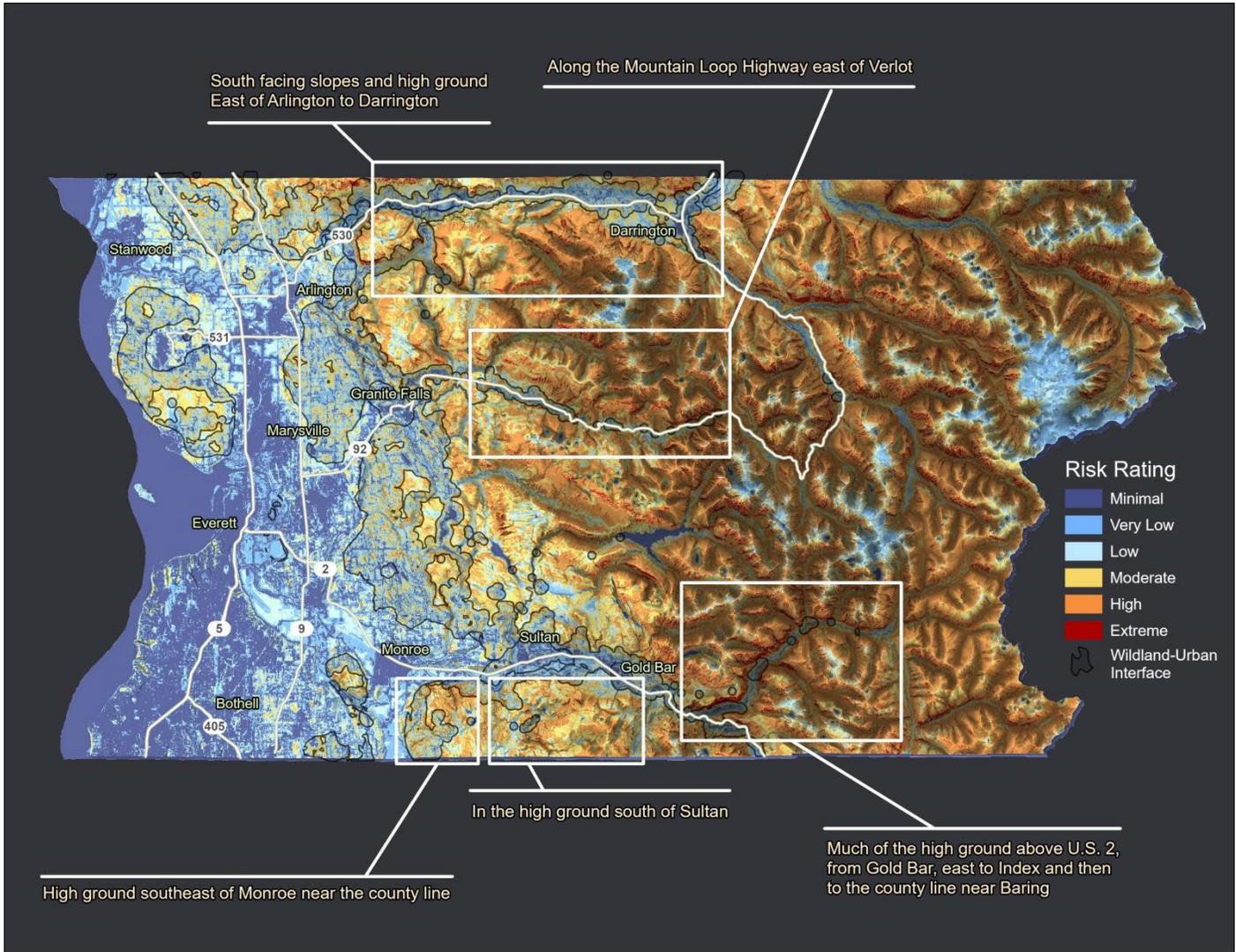


Figure 4. Snohomish County Wildfire Risk

Dam Failure

- 7.6.2. There are 66 dams in Snohomish County regulated by the Washington Department of Ecology. The Culmback Dam is of particular concern due to the volume of water it contains. It has been the subject of several countywide and local planning efforts. The likelihood of “full-breach, full pond” dam failure is considered an extremely low-probability hazard, although damage from a severe earthquake, landslides, or excessive rainfall are all plausible triggers.
- 7.6.3. Dam failure can be catastrophic to all life and property downstream. Potential impacts from a dam failure include mass casualties and highway damage resulting in at least one major highway closure. Additionally, the potentially affected reservoirs in Snohomish County are the primary source of potable water for 80 percent of the County’s population.
- 7.6.4. The dam owners are in the best position to provide reliable public information during non-failure emergency conditions or when a potentially hazardous situation is developing. For more information, see the Culmback Dam Emergency Response Plan and the Tolt River Reservoir Emergency Response Plan. **Table 10** below lists dams and reservoirs that could have major impacts in Snohomish County. The Culmback and Tolt dams are of greatest concern because of the massive volumes of water stored in their reservoirs.

Dams and Reservoirs
<ul style="list-style-type: none">• Culmback Dam/Spada Lake Reservoir (owned by Snohomish County PUD)• Tolt River Dam and reservoir (in King County and owned by the City of Seattle)• The Lake Chaplain North/South Dams and reservoir (owned by the City of Everett).

Table 40. Dams and Reservoirs

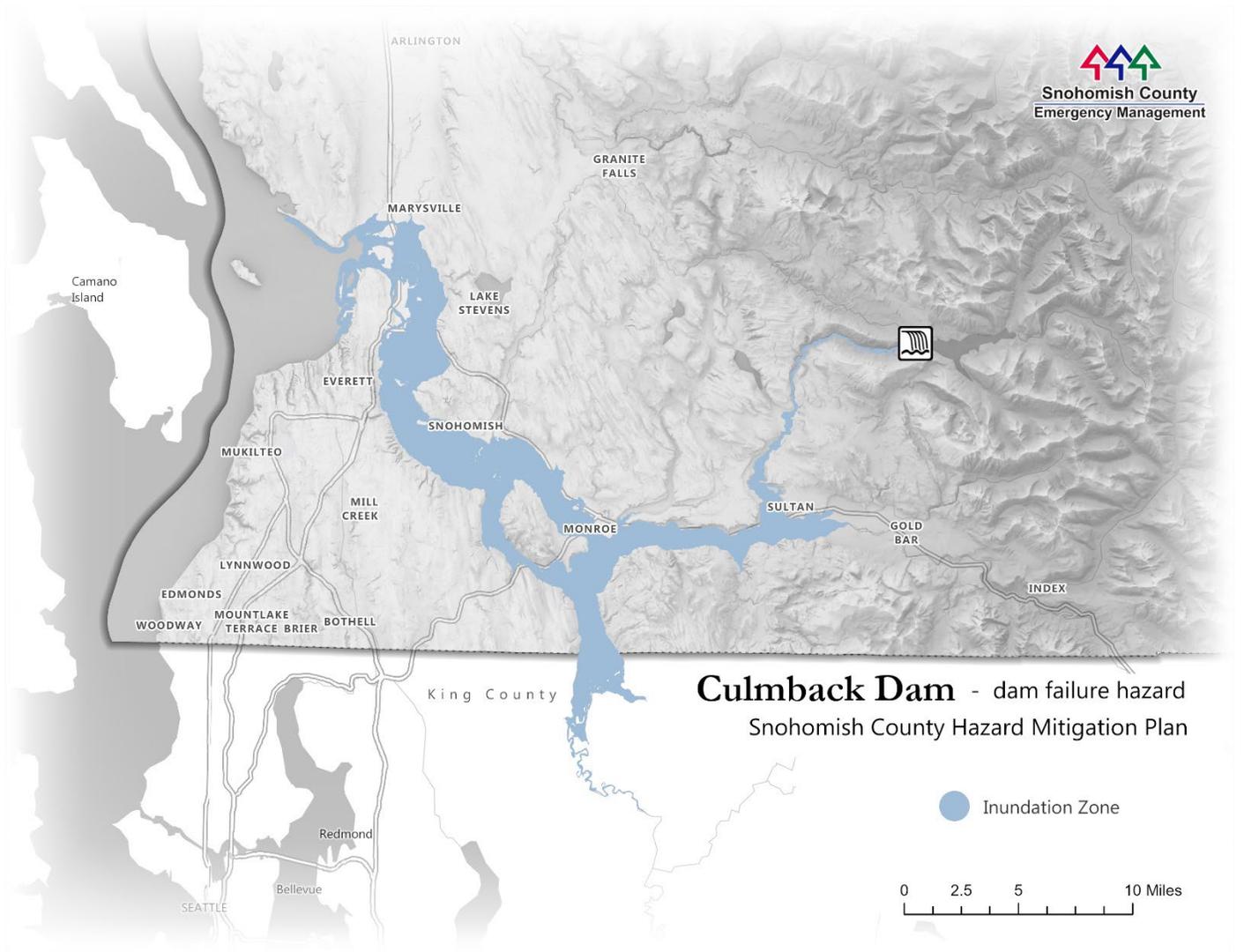


Figure 5. Dam Failure Inundation Zone

7.7. HAZMAT

- 7.7.1. There are 451 Tier II facilities listed in Snohomish County. HAZMAT releases are more likely to occur in areas surrounding fixed site facilities and along major transportation routes in the County. However, the entire population of Snohomish County is vulnerable to a hazardous material incident due to widespread use and storage throughout communities.
- 7.7.2. The Snohomish County HAZMAT Team (made up of various cooperating fire agencies) and ESF-10 will be the lead for HAZMAT incidents.

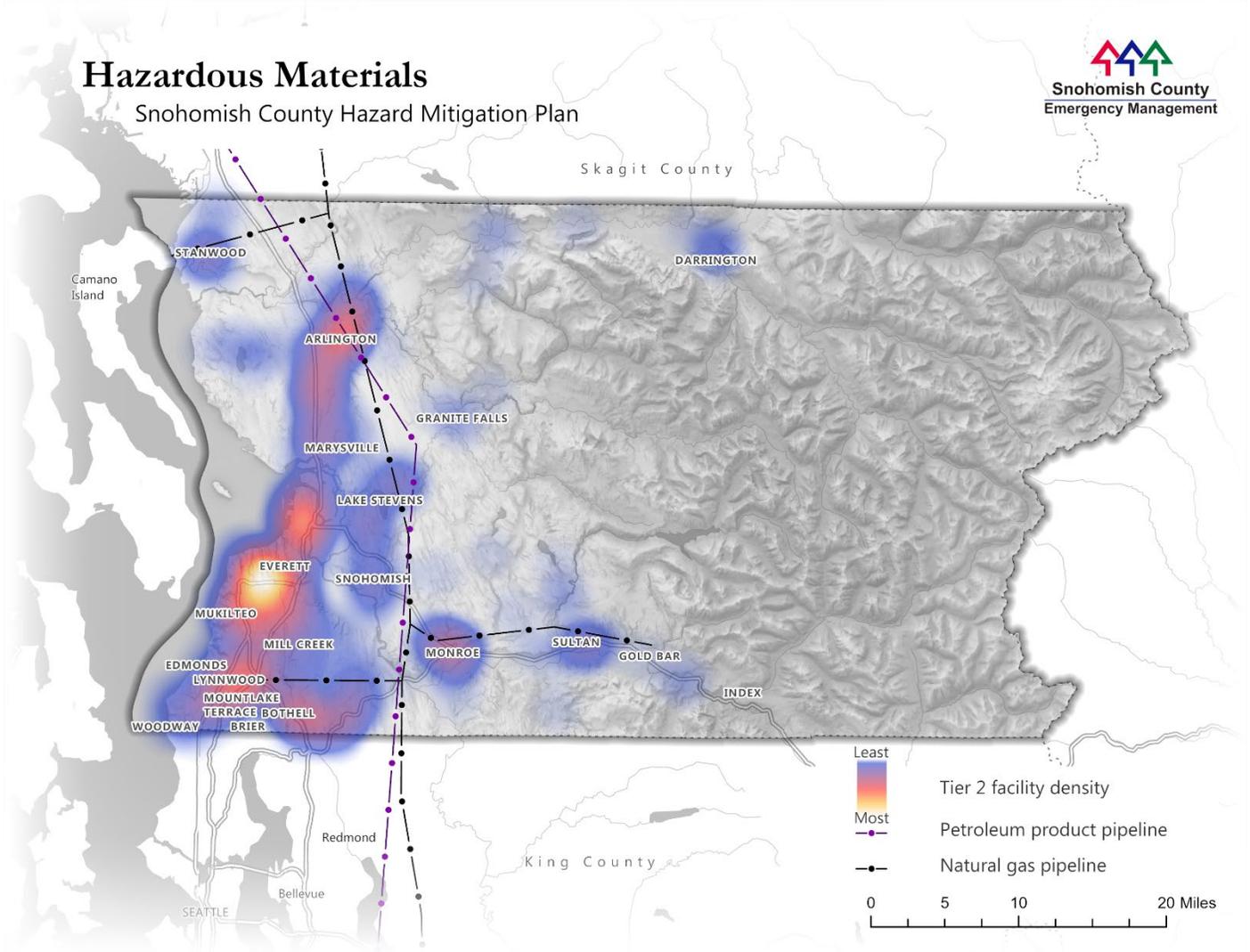


Figure 6. Hazardous Material Facilities – Pipelines and Tier II

- 7.7.3. Shelter-in-Place is the preferred means of protecting people during HAZMAT incidents if that can be done safely. The IC/UC will ultimately determine if evacuation or Shelter-in-Place is necessary, in consultation with HAZMAT officials on scene and/or remote subject matter experts.

7.8. Terrorism

- 7.8.1. Terrorism incidents can happen at any time and without notice, requiring rapid assessment, decision-making, communications, and implementation. Terrorism incidents may range from a relatively isolated attack, committed by a single individual, to a highly complex operation that might involve multiple teams, attack locations, and weapon types. These are known as Complex Coordinated Terrorist Attacks.
- 7.8.2. Depending on the nature of the incident, location, and other factors, sufficient warning time may or may not be available to evacuate the threatened population. Some types of terrorism incidents, such as weapons of mass destruction, can lead to limited evacuation clearance time, or necessitate that the remaining population must shelter-in-place until the conclusion of the Impact Phase. Determinations of clearance times, which will be made by the IC/UC, should include a calculation of individuals with access and functional needs, spontaneous evacuees, and evacuees from other jurisdictions who may pass through.

7.9. Flooding

- 7.9.1. The risk of flooding is greatest between late November and early February, although the threat is pertinent from October through spring. Large, damaging floods have historically occurred every two to 10 years. Heavy downpours can produce flash flooding, particularly in urban neighborhoods with poor drainage, although there usually is some warning that high water is anticipated.
- 7.9.2. In areas at risk for flooding, residents are encouraged to remain off roads at the greatest risk and maintain awareness of the situation. Evacuations may be necessary.

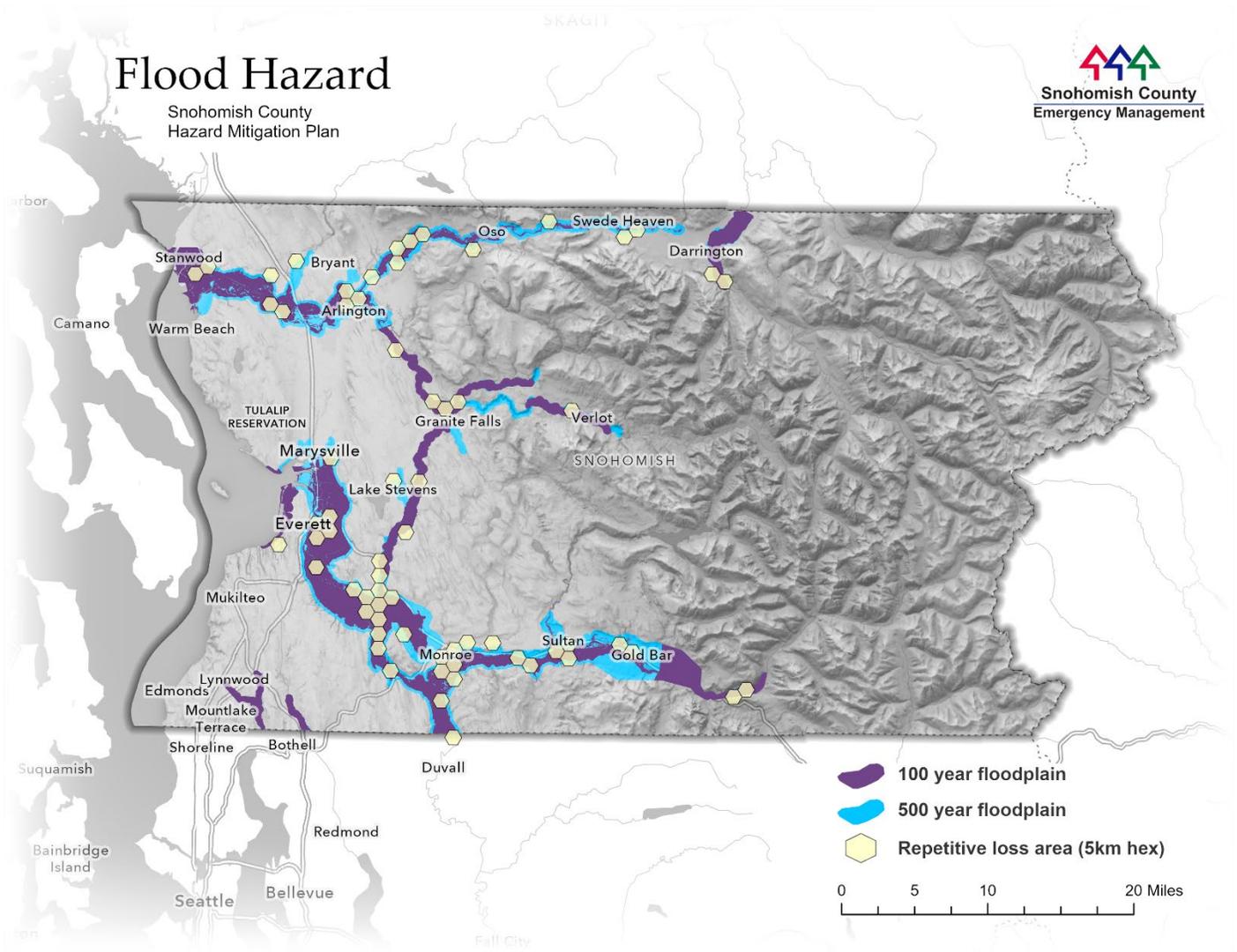


Figure 7. Flood Hazard

7.10. Lahar and Volcano

- 7.10.1. Any volcanic activity in the Snohomish County region would almost certainly come with some warning, including steam plumes and increased seismic activity. It could happen across several days to weeks, or longer.
- 7.10.2. The worst-case scenario for Snohomish County is an ice-melting eruption of the Glacier Peak volcano accompanied by ejection of tephra and significant ash fall. This event would create challenges of international scope and require coordination between a host of local, state, tribal and federal agencies. More information can be found in the Glacier Peak Coordination Plan.
- 7.10.3. A lahar also poses significant risk to the County during volcanic activity. A lahar is a mixture of volcanic debris and water, often from melting glaciers. Lahars race downstream with tremendous destructive force, reshaping the land and rerouting rivers.
- 7.10.4. The Snohomish County Sheriff's Office and other law enforcement have responsibility for evacuating areas at risk of lahar hazards. The Snohomish County Health Department is responsible for helping mitigate health impacts from ash fall. Wireless Emergency Alerts likely will be used by the SCEOC in an evacuation.

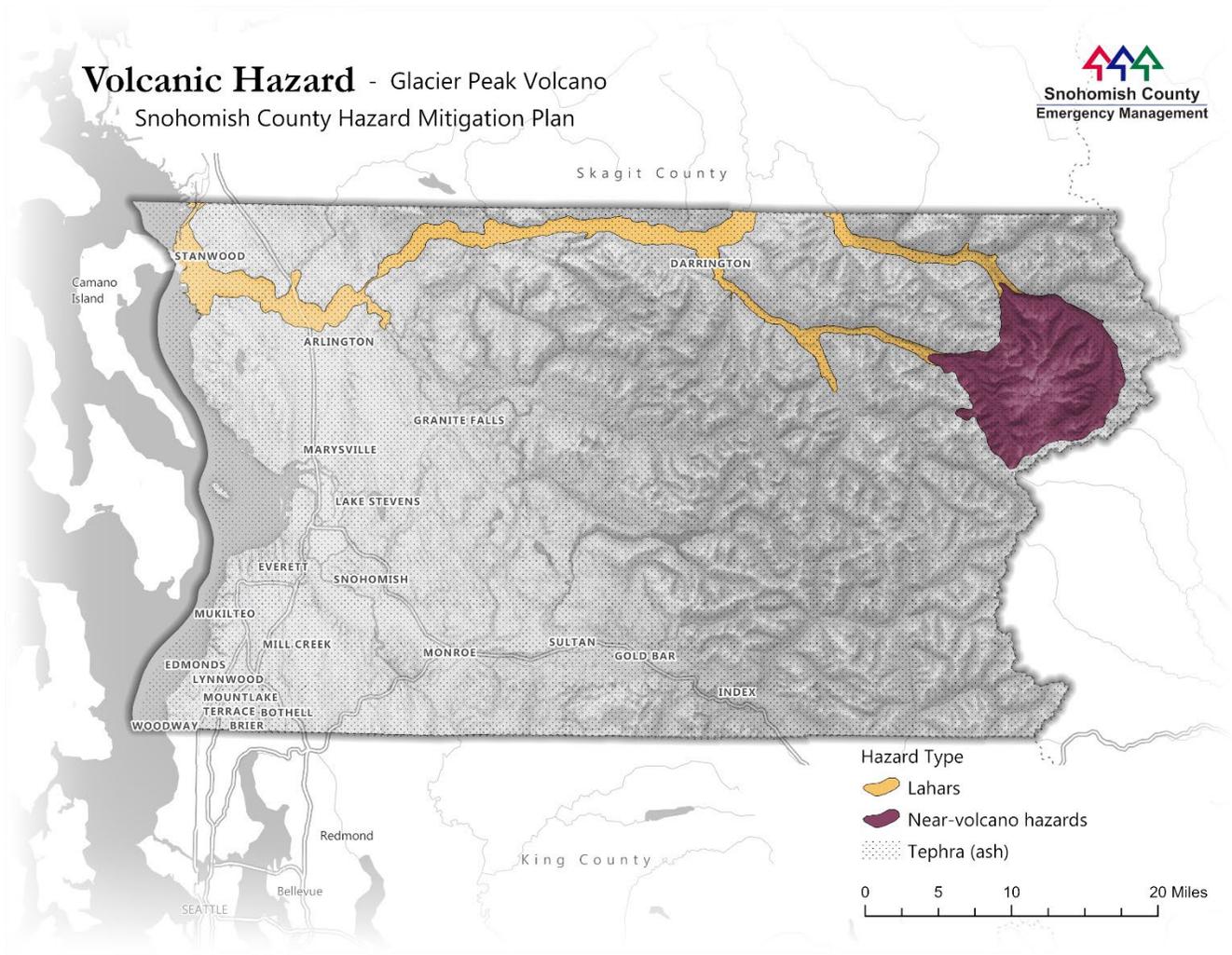


Figure 8. Glacier Peak Volcanic Hazard – Lahar and Near-Volcano Hazard

7.11. Blizzard or Winter Storm

- 7.11.1. Blizzard or severe winter storm conditions are most likely to occur in Snohomish County during the winter or early spring months. There is generally forewarning of incoming storms provided by the National Weather Service.
- 7.11.2. Shelter-in-place is the ideal strategy for communities impacted by a blizzard or winter storm. DEM will amplify NWS's forecasts and coordinate with partners to encourage residents to stock up on necessary items and avoid venturing outside while dangerous conditions persist.

7.12. Tsunami

- 7.12.1. An earthquake along the South Whidbey Island Fault or Seattle Fault could produce a tsunami with the ability to reach shores within 30 minutes, giving emergency management officials little time to warn and evacuate people. A tsunami spawned by an earthquake along the Cascadia Subduction Zone could also present a significant hazard for people in Snohomish County, but one with a two-hour gap between the shaking and the arrival of a tsunami. However, any earthquake would potentially affect telecommunications capabilities, complicating efforts to evacuate.
- 7.12.2. Duty Officers for Snohomish County DEM will share National Tsunami Warning Center and publicize tsunami alerts that impact the County. They may also activate the SCEOC after earthquakes, erring on the side of activation even when damage may be less severe.
- 7.12.3. WAEMD maintains a network of 122 state-of-the-art All-Hazard Alert Broadcast tsunami sirens along Washington's inner and outer coasts which instruct listeners to evacuate immediately to high ground, and are intended to act as outdoor alerts to people who may not get a tsunami warning through their mobile phones or via news media. There are three located in Snohomish County: one at the Edmonds waterfront and two at the Port of Everett. The sirens have an audible range of about one mile.

Tsunami Hazard Areas

Snohomish County Hazard Mitigation Plan



Snohomish County
Emergency Management

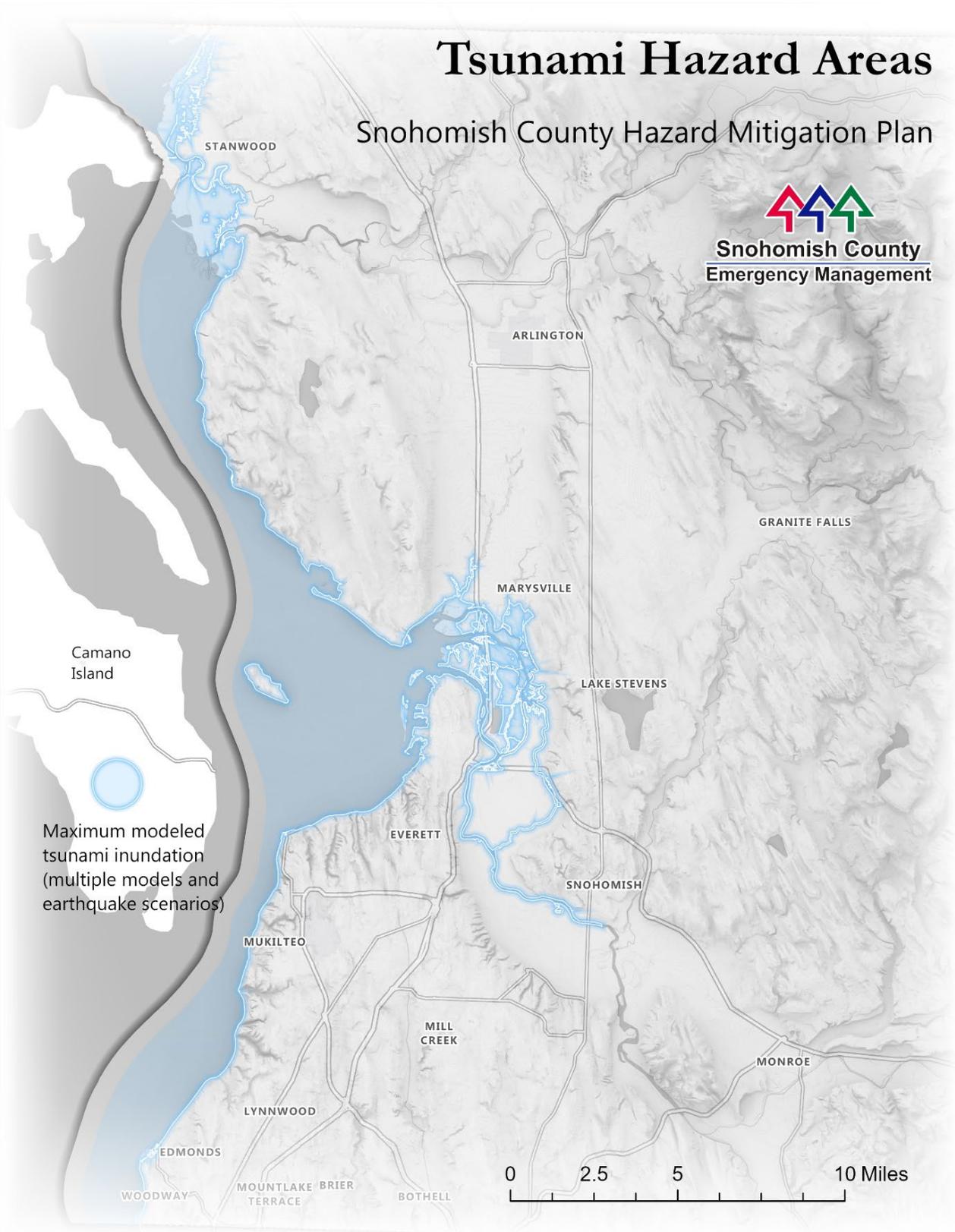


Figure 9. Snohomish County Tsunami Hazard Areas

8. Annex References

- 8.1. Culmback Dam Emergency Response Plan
- 8.2. Fire District 26 Community Wildfire Protection Plan
- 8.3. Glacier Peak Coordination Plan
- 8.4. Snohomish County Damage Assessment Annex
- 8.5. Snohomish County Department of Conservation and Natural Resources Fairground and Animals Plan
- 8.6. Snohomish County Duty Officer Emergency Operations Plan And Alert and Warning Policies and Procedures
- 8.7. Snohomish County Comprehensive Emergency Management Plan
- 8.8. Snohomish County Hazard Mitigation Plan
- 8.9. Snohomish County Limited English Proficiency Plan
- 8.10. Snohomish County Mass Care and Sheltering Plan
- 8.11. Snohomish County Recovery Framework
- 8.12. Snohomish County Vulnerable Populations Transportation Framework
- 8.13. Tolt River Reservoir Emergency Response Plan
- 8.14. Washington State Business Re-entry Program
- 8.15. Washing State Comprehensive Emergency Management Plan

9. Resources – Maps, Visuals, and Dashboards

9.1. Public Safety Hub

- 9.1.1. The Snohomish County Public Safety Hub provides updates on a variety of hazards as seen in **Figure 10** below. By navigating through these pages, residents will be able to see maps specific to the County highlighting relevant information, and in multiple languages. For example, **Figure 11** on the next page identifies all the cold weather shelters within the County at the time the image was captured (English language example).

The following pages will be updated as conditions dictate

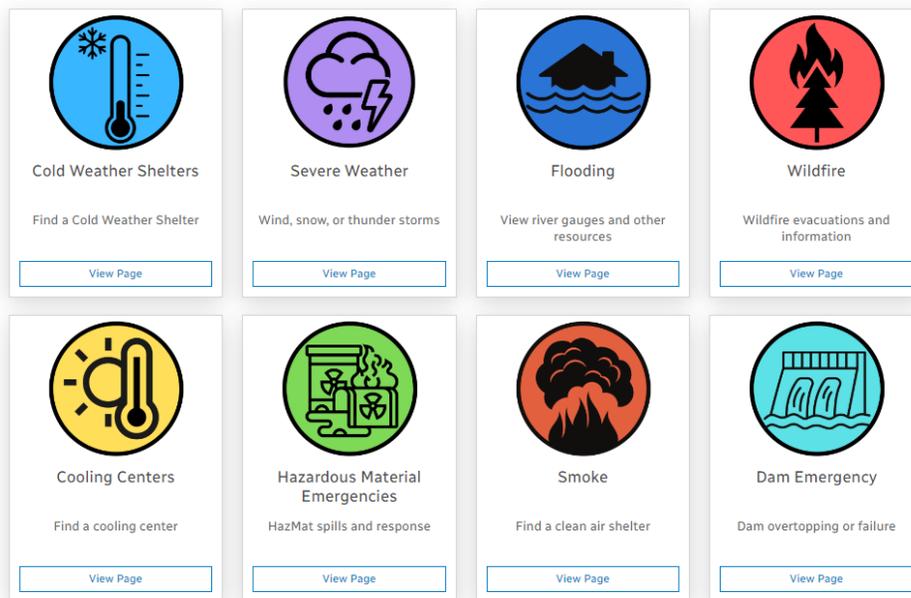


Figure 40. Hazards on the [Public Safety Hub](#)

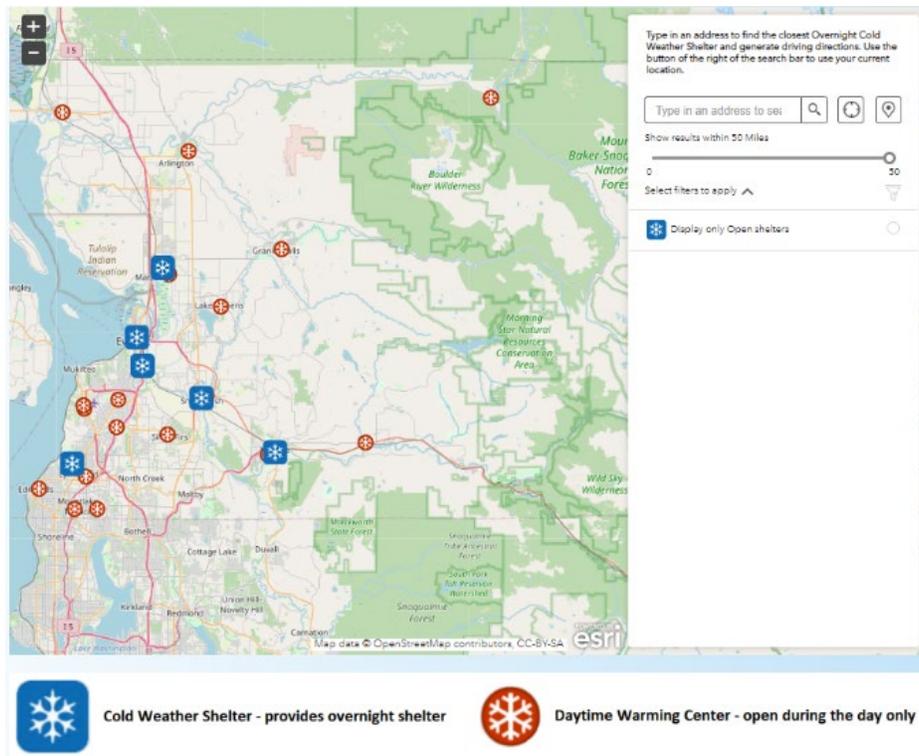


Figure 51. Cold Weather Shelters in Snohomish County as of January 18, 2024

9.2. Ready-Set-Go Graphic

9.2.1. Evacuation alerts in Snohomish County follow the Level 1/**Ready**, Level 2/**Set**, Level 3/**Go** model. They may be used during emergencies involving wildfire, flooding, hazardous materials and other threats when it is critical to get away from danger fast. Here’s an excerpt depicting how they work:

- **Level 1/READY:**

Get ready to leave; it may become necessary. Also known as Level 1, this alert occurs when there is no immediate danger to people or to property, but a threat may be headed that way. This is the time for people to scout evacuation routes, to firm up their personal plans for leaving the area, to gather up necessities, to check on neighbors who may need help and to take steps to keep pets and livestock safe.

Key steps:

- Sign up for SnoCoAlerts if you haven’t already.
- Monitor news, weather and other reports.

- **Level 2/SET:**

Get set to leave with little notice. Also known as Level 2, this alert occurs when there is significant risk to an area and a high probability there will be need to evacuate. People should prepare to go at any time. First responders may begin making door-to-door notifications. Those who may take longer, including older people and those living with disabilities, should leave now. It’s also time to move livestock.

Key steps:

- Make sure you are signed up for SnoCoAlerts and that your information is up to date.
- Keep your phone on and charged.
- Pack up important papers, pets and prescriptions.
- Assemble your emergency kit, including portable radio and flashlight.

• **Level 3/GO!**

Also known as Level 3. Evacuate. There is immediate danger. People need to load up their families and pets and leave using pre-designated routes.

Key steps:

- Leave now!
- Follow emergency instructions from any first responders you encounter.
- Drive with your headlights on.
- Once in a safe location, check in with family and friends to let them know your location.

The graphic is a red banner with a fire and trees icon on both sides. The text reads: "WHEN IT IS TIME TO MOVE, REMEMBER READY, SET, GO!". Below the banner, there are three colored boxes: a green box for "READY", a yellow box for "SET", and a red box for "GO!". Each box contains a description of the alert level, key steps, and an icon (TV and phone for Ready, backpack and checklist for Set, and a car for Go!).

**WHEN IT IS TIME TO MOVE, REMEMBER
READY, SET, GO!**

Evacuation alerts in Snohomish County follow the Ready, Set, Go! model. They are used when it may be critical to get away from danger fast. Here's how they work:

READY
Get ready to leave; it may become necessary. Also known as Level 1, this alert occurs when there is no immediate danger to people or to property but a threat may be headed that way. This is the time for people to scout evacuation routes, to firm up their personal plans for leaving the area, to gather up necessities, to check on neighbors who may need help and to take steps to keep pets and livestock safe.

KEY STEPS

- Sign up for SnoCoAlerts if you haven't already: <https://snocoalerts.snoco.org>
- Monitor news, weather and other reports.

SET
Get set to leave with little notice. Also known as Level 2, this alert occurs when there is significant risk to an area and a high probability there will be need to evacuate. People should prepare to go at any time. First responders may begin making door-to-door notifications. Those who may take longer, including older people and those living with disabilities, should leave now. It's also time to move livestock.

KEY STEPS

- Make sure you are signed up for SnoCoAlerts and that your information is up to date.
- Keep your phone on and charged.
- Pack up important papers, pets and prescriptions.
- Assemble your emergency kit, including portable radio and flashlight.

GO!
Also known as Level 3. Evacuate. There is immediate danger. People need to load up their families and pets and leave using pre-designated routes.

KEY STEPS

- Leave now!
- Follow emergency instructions from any first responders you encounter.
- Drive with your headlights on.
- Once in a safe location, check in with family and friends to let them know your location.

Figure 62. Wildfire Ready, Set, Go Graphic

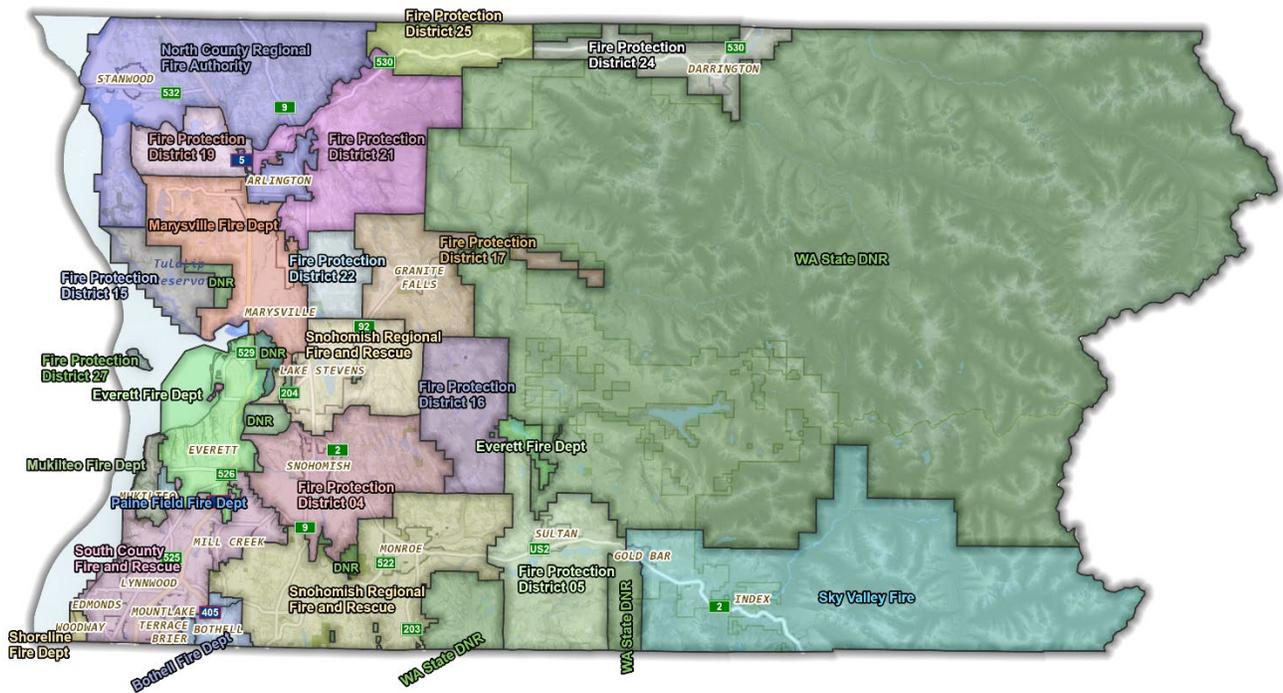


Figure 73. Snohomish County Fire Agencies

9.2.2. More critical maps, visuals, and dashboards can be found through Snohomish County’s websites.

10. Authorities

10.1. State and Local Authorities

- 10.1.1. The RCW outlines authority over evacuations within the State.
- 10.1.2. County Ordinance prescribes the process by which evacuations can be declared. SCC 2.36.040
- 10.1.3. The State Department of Agriculture enforces the Animal Protection Act and the Animal Protection Rules and Regulations that stipulate the licensure of animal shelter facilities, transportation standards, and premise requirements.
- 10.1.4. Emergency Management. RCW 38.52
- 10.1.5. Requirements for Mutual Aid and Interlocal Agreements. RCW 38.52.091
- 10.1.6. Closing Highways and Restricting Traffic. RCW 47.48. Registry of persons allowed access to property to conduct fire prevention despite closures. 47.48.060
- 10.1.7. Obstructing a Law Enforcement Officer. RCW 9A.76.020
- 10.1.8. State Fire Service Mobilization. RCW 43.43.960
- 10.1.9. Hazardous Materials Incidents. RCW 70.136
- 10.1.10. Snohomish County Code for Emergency Management. SCC 2.36

10.2. Federal Authorities

- 10.2.1. Governor's Guide to Mass Evacuation. National Governor's Association. 2014.
<http://www.nga.org/files/live/sites/NGA/files/pdf/GovGuideMassEvacuation.pdf>
- 10.2.2. American Census Bureau and Community Survey Data: Snohomish County.
<https://www.census.gov/programs-surveys/acs/>
- 10.2.3. Robert T. Stafford Disaster Relief and Emergency Assistance Act (Disaster Relief Act of 1974), 42 U.S.C. s. 5151 (2006).
- 10.2.4. Disaster Evacuation and Displacement Policy: Issues for Congress, April 16, 2006.
- 10.2.5. Pets Evacuation and Transportation Standards Act of 2006, September 21, 2006.
- 10.2.6. The Americans with Disabilities Act.

11. Terms and Definitions

Term/Abbreviation	Definition
Access and Functional Needs (AFN)	Individual circumstances requiring assistance, accommodation, or modification for mobility, communication, transportation, safety, health maintenance, etc., due to any temporary or permanent situation that limits an individual’s ability to take action in an emergency.
Common Operating Picture (COP)	Established and maintained by the gathering, collating, synthesizing, and disseminating of incident information to all appropriate parties involved in an incident, to provide on-scene and off-scene support personnel with a shared understanding of an incident including assumptions, facts, availability and location of resources, personnel, and the status of requests for assistance.
Coordinating Agency	The coordinating agency is responsible for facilitating communication, collaboration, and coordination among various agencies, organizations, and stakeholders involved in the emergency response. Its role is to ensure that all relevant parties are working together smoothly, sharing information, and avoiding duplication of efforts. The coordinating agency helps establish a unified command structure, facilitates resource allocation, and addresses any logistical or operational challenges that may arise during the response.
Critical Transportation Needs (CTN) Population	Evacuees with limited or no access to transportation who require government assistance to evacuate safely. CTN may include, but are not limited to, homebound populations; individuals with access and functional needs; individuals who do not speak English; individuals with household pets; unaccompanied minors; and individuals with no access to a vehicle or a ride with a friend/family.
Evacuation	Organized, phased, and supervised withdrawal, dispersal, or removal of people from dangerous or potentially dangerous areas, and their reception and care in safe areas. Note that under some circumstances, citizens may self-evacuate in an unplanned evacuation resulting from an individual, family, or group decision in reaction to an incident, rather than as a result of an evacuation order issued by a jurisdiction. This action may be characterized by a lack of preparation and disorder/confusion on the part of the evacuees or the lack of a clear, unified message from government entities and may contradict jurisdictional recommendations for shelter-in-place protective actions.
Evacuation Order	Jurisdictionally initiated actions for an organized, phased, and supervised withdrawal, dispersal, or removal of people from dangerous or potentially dangerous areas, and their reception and care in safe areas.
Evacuation Assembly Point	Also called Evacuation Transportation Site or Pick-up Point. A temporary location exclusively for evacuation embarkation and transportation coordination in a field setting. Basic life sustaining services are not generally available.
Evacuation Zone	The geographical area where people may be directed to evacuate depending on the impacts of the hazard (i.e.; tides, storm intensity, path, and/or other factors).
Host Community	Communities tasked as destination locations for evacuees with government-coordinated or -sponsored evacuation sites. These communities “host” evacuees requiring shelter. May also be referred to as a receiving community.
Impact	The effects and consequences of a hazard or disaster on individuals, communities, infrastructure, environment, and overall community.

Lag Time	Lag time is the period of time between the notification of an event and when evacuation and shelter-in-place operations are actually activated. Lag times will vary based upon the type of event, the partners engaged, communication channels, network disruptions and other incident-based realities.
Lead Time	Lead time is the amount of time between notice of an event and initiation of an event. Lead time for evacuation and shelter-in-place operations will vary based upon the type of event, population of zone(s) being evacuated, time of day, and roadway capacity. Lead time allows resources to be mobilized and in position before the arrival of the threat and prior to the start of an evacuation, and ensures sufficient capacity is in place once the evacuation order is given. For “notice events,” the decisions and requests for resources may need to be made several days in advance so resources can be mobilized and in position before the arrival of the threat and prior to the start of an evacuation. This lead time ensures sufficient capacity is in place once the evacuation order is given. Regarding a “no-notice event,” the evacuation Annex needs to be activated immediately with resources focused on a time phased, zone-based evacuation and shelter-in-place.
Mass Care (Phase)	The phase in which evacuees are moved out of the disaster or threat area and kept safe until they can return to their community. During this phase, the evacuating jurisdictions need to communicate with host jurisdictions on a regular basis with information such as numbers of evacuees, types of evacuees, potential length of evacuation, and any support that will be provided by the evacuating jurisdiction.
Mass Care (Shelter)	A facility where evacuees without an end-point destination can be processed, evaluated, and provided disaster services from government agencies and/or pre-established voluntary organizations. Meals and water should be available. Basic first aid, pet sheltering (if applicable), sleeping quarters, hygienic support, and basic disaster services (counseling, financial assistance and referral, etc.) should also be available.
Mobilization	The alert, activation, pre-positioning, and staging of equipment, materials, and personnel to conduct operations.
No-Notice Event	Also called a Low-to-No-Notice Event. An incident occurring with little or no warning and requiring rapid assessment, decision-making, communication, and implementation of protective action.
Notice Event	Jurisdictions will have advance warning of an impending hazard. The officials will have time to prepare in advance, assess, communicate, and implement protective action measures. Typically, initial preparation discussions regarding the impending hazard will occur as soon as first notice of impact is provided.
Pass-through Community	Communities not evacuating their populations but located on evacuation routes for evacuating populations. Evacuees “pass-through” these communities enroute to final destinations. These communities may assist in facilitating evacuation operations.
Primary Agency	The primary agency is the organization that has the primary responsibility for managing a specific aspect or function of the emergency response. In complex emergencies, different agencies may be assigned as primary for different aspects, such as medical services, search and rescue, logistics, or public information. The primary agency leads and coordinates its specific area of expertise, ensuring that necessary resources, personnel, and activities are properly organized and executed.

Reception Center	A facility where displaced individuals can receive assistance in identifying available shelter locations. Reception Centers are short-term centers for meeting evacuees' immediate needs while they await assignment to a shelter.
Re-Entry	The phase marked by the coordinated movement of first responders and evacuees back into a community once the threat or hazard dissipates and the event causing evacuation ends.
Refuge of Last Resort	A facility or location that may provide temporary or limited relief from the hazard. A refuge of last resort is not a "shelter" and does not provide basic services such as food, accommodations for sleeping, and first aid. It is only a location that is slightly safer for people who are unable to clear the area under evacuation. The term "refuge of last resort" does not imply that evacuees will be in a completely safe environment.
Reunification	The process of bringing together separated individuals, particularly family members or groups, who were separated during an evacuation due to the chaotic nature of evacuations, the need for rapid movement, or other factors.
Self-Evacuees	Self-evacuees refer to the population of evacuees with the means and capability to evacuate the impacted area without government-provided transportation assistance. The primary modes of transportation during an evacuation are foot, bike, car, train, and bus.
Sending Community	Communities directly impacted by a hazard or impending hazard. Officials in each of these jurisdictions have determined the need to evacuate all or a portion of the population and are "sending" these evacuees outside of the impacted area.
Service Animals	The United States Department of Justice defined "service animals" in 2008 as dogs that are individually trained to do work or perform tasks for people with disabilities.
Shadow Evacuees	Also referred to as spontaneous evacuees. Evacuees who will evacuate regardless of directives by public officials due to perceived risk of danger.
Shelter-in-Place (SIP)	The use of a structure to temporarily separate people from a hazard or threat. Sheltering-in-place is considered the primary protective action in many cases. Depending on the nature of the incident, it can be safer for the population to shelter-in-place than to try to evacuate. Sheltering-in-place is appropriate when conditions necessitate that individuals seek protection in their home, place of employment, or other location when disaster strikes. Choosing shelter-in-place as a protective action directs individuals to use the nearest suitable physical structure as refuge from a hazardous outdoor atmosphere or threat. The structure is usually a business or residence nearest to affected individual(s) that they are already in or can reach quickly.
Traffic Control Points	Critical road intersections located on through routes and are specific to each hazard. These are generally preplanned but may be established as needed based on the incident.
Vulnerable Populations	A broad term used to describe members of the population who are very young, elderly, have high socioeconomic vulnerability, have access and functional needs, are unhoused, have low English proficiency, or are members of marginalized communities. Vulnerable populations generally experience inequitable access to basic opportunities in their daily lives.

Zero Hour	The zero hour is the time needed to clear transportation system users and to secure facilities, people, and equipment after the evacuation is completed but before the hazard arrives. Zero-hour actions are part of the Impact Phase and end prior to the incident impact when all evacuation operations have or should have ceased to ensure the safety of first responders.
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Table 51. Terms and Abbreviations Table

12. Acronyms

Acronym	Identification
AFN	Access and Functional Needs
CEMP	Comprehensive Emergency Management Plan
CTN	Critical Transportation Needs
DEM	Snohomish County Department of Emergency Management
DOC	Washington State Department of Corrections
EEI	Essential Elements of Information
EMS	Emergency Medical Services
EOC	Emergency Operations Center
ESF	Essential Support Function
ESIP	Evacuation and Shelter in Place
FEMA	Federal Emergency Management Agency
HAZMAT	Hazardous Materials
HIRA	Hazards Identification and Risk Assessment
HMP	Hazard Mitigation Plan
IC/UC	Incident Command/Unified Command
ICP	Incident Command Post
ILA	Interlocal Agreements
JIC	Joint Information Center
LEP	Limited English Proficiency
NGO	Nongovernmental Organizations
NMETS	National Evacuation Management Tracking System
PIO	Public Information Officer
RCW	Revised Code of Washington
RHRC	Regional Hub Reception Center
SCEOC	Snohomish County Emergency Operations Center
SEOC	State Emergency Operations Center
SIP	Shelter-in-Place
SOAR4	Snohomish County Organizations Advancing Readiness, Response, Recovery and Resiliency
THIRA	Threat and Hazard Identification and Risk Assessment
VPTF	Vulnerable Populations Transportation Framework

Acronym	Identification
AFN	Access and Functional Needs
WAEMD	Washington Emergency Management Division
WSDOT	Washington State Department of Transportation

Table 62. Acronyms

13. Record of Updates and Exercises

Record all annex updates and conducted exercises here for general situational awareness. The method and schedule for evaluation and revision of this annex is in the Snohomish County CEMP Base Plan.

Record of Updates

No.	Date	Changes Made	Completed By
E.G.	07/17/2023	Updated the structure of the Annex to align with the 2023 Template	Dara Salmon
[#]	[Date]	[Overview of changes]	[Name]

Table 73. Record of Updates

Record of Exercises

No.	Date Conducted	Exercise Type	Overview	Exercise Name	Completed By
E.G.	07/17/2023	TTX	TTX to test roles and receptibilities of primary, coordinating, and response agencies	Roles and Responsibilities of Annex 5 TTX	DEM
[#]	[Date]	[Type]	[Brief Description]	[Exercise Name]	[Agency Hosting]

Table 84. Record of Exercises