#### **Agenda**

#### Shady Cove Regular City Council Meeting Thursday, October 5, 2023 6 PM

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Meeting ID: 824 9548 4790

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#### I. Call to Order

- A. Roll Call
- B. Pledge of Allegiance
- C. Announcements by Presiding Officer
- 1. This meeting is being digitally recorded.
- 2. The next regularly scheduled meeting of the City Council will be held on October 19, 2023 at 6 PM, both in Council Chambers and via Zoom.
- 3. The next regularly scheduled meeting of the Planning Commission is October 12 at 6 PM, both in Council Chambers and via Zoom.
- 4. The next regularly scheduled meeting of the City Administrator Selection Committee is Tuesday, October 10 at 2 PM at the Shady Cove Library
- 5. The next regular meeting of the Parks, Recreation, and Tourism Commission is not scheduled yet.
- 6. The next meeting of the Emergency Management Commission is October 9 at 6PM at City Hall and Zoom.
- 7. These meeting dates and times are subject to change
- 8. Anyone wishing to address the City Council concerning items of interest may do so. The person addressing the Council must complete a Public Comment Card and submit it to the City Administrator prior to the meeting. All remarks will be addressed to the whole City Council and limited to 3 minutes per person. Public Comments may also be submitted by email to the City Administrator, at TCorrigan@shadycove.org, no later than 4:00 PM the day of the meeting. The Council reserves the right to delay any action, if required, until such time as they are fully informed on a matter.

#### II. Public Comment on Agenda Items

#### III. Consent Agenda (pgs.3-9)

Shady Cove City Council Meeting October 5, 2023 Page 2 of 2

- A. Minutes of 09/21/23
- B. Bills Paid 09/15/23 09/29/23 \$5,393.95

### IV. Items Removed from Consent Agenda

#### V. Staff Reports

- A. Jackson County Deputy
- B. Fire Chief Travis Crume, FD4
- C. Commission/Committee Reports
- D. City Administrator

#### VI. Old Business

- A. Short Term Rental Ordinance
- B. Reso # 23-06, A Resolution of the City of Shady Cove seeking to Repeal Measure 110 (Pending)

#### VII. New Business

- A. Selection Committee Update
- B. PRT Recommendations
- C. Natural Hazard Mitigation Plan Draft (pgs.10-48)

#### VIII. Written Communication

#### IX. Public Comment on Non-Agenda Items

## X. Council Comments on Non-Agenda Items

- A. Mayor Ball
- B. Councilor Nuckles
- C. Councilor Winfrey
- D. Councilor Hubbard
- E. Councilor Mitchell

#### **Adjournment**

# City of Shady Cove City Council Regular Meeting

Thursday, September 21, 2023, 6:00 PM Meeting was held at City Hall and on Zoom

#### I. CALL TO ORDER

Mayor Ball called the Regular City Council Meeting to order at 6:00 PM.

The Pledge of Allegiance was recited.

#### I.C. ANNOUNCEMENTS

Roll Call

Council Present: Councilor Nuckles, Councilor Winfrey, Councilor Mitchell, Councilor Hubbard was excused

Staff Present: Thomas J. Corrigan, City Administrator

Mayor Ball made the announcements on the agenda.

#### II. PUBLIC COMMENT ON AGENDA ITEMS

Mr. Kreiss- Wants to comment regarding Short Term Rentals. Expressed his concerns regarding section 154.478, which requires signatures from shared driveway members. Mayor Ball- He let Mr. Kreiss know he is out of the three minutes allowed for public comment.

Councilor Mitchell- Explained a little about the ordinance with the Short Term Rentals and that if he would like Council to reconsider and it go to the Planning Commission, he could put something in writing and it would be more beneficial than trying to discuss it at the Council Meeting with such a small amount of time to voice his concerns.

#### III. CONSENT AGENDA

A. Minutes of 09/07/23

B. Bills Paid Report 08/31/23-09/14/23- \$41,629.29

#### Motion to Accept Consent Agenda

Motion: Councilor Mitchell

Second: Councilor Winfrey

Motion Carried: 4-0

#### IV. ITEMS REMOVED FROM CONSENT AGENDA

None

#### **V. STAFF REPORTS**

Shady Cove City Council Regular Meeting Minutes of 9/21/2023 Page 2 of 5

#### A. Commission/Committee Reports:

Planning- Commissioner Stirling- On September 14<sup>th</sup> they had a Type 3 Public Hearing regarding relocation of the Brewed Awakenings from one side of Hwy 62 to the other side. The Planning Commission approved the application with conditions.

Parks, Recreation, and Tourism- Liaison Councilor Nuckles- This Sunday, September 24<sup>th</sup> is the 51<sup>st</sup> Birthday Celebration from 12-4 PM at Aunt Caroline's Park. The next event is the Harvest Festival Carnival and it has three steps to it. First one is to decorate your house in a scarecrow theme and it will be judged with prizes. Then there is the Harvest Festival Carnival that will include the school with a scarecrow contest and a gourd carving contest that will be judged with prizes. The flower baskets need to be pre-ordered for next year if want them again.

- -Mayor Ball- Needs to be discussed now and make a decision.
- -Councilor Winfrey- American Rescue Funds would cover the cost for next year also and then after that, look into ways of fundraisers to cover the cost of the hanging baskets.
- -Councilor Nuckles- The baskets were a way for the City to set an example for the beautification of our down town.
- -Mayor Ball- Agrees with doing the baskets again but really need to look into some beautification grants or other ways to help raise money for future baskets.

# Motion to Continue the Flower Basket Program for 2024 in the Amount of \$425 per Basket for 30 Baskets with Funds from American Rescue Funds

Motion: Councilor Nuckles Second: Councilor Winfrey

Motion Carried: 4-0

B. City Administrator- Tom Corrigan- For clarification, we do not dispatch deputies out of City Hall. The park is closed at dusk and opens at dawn. We contract with Jackson County for building inspections. Property boundary claims are between two, three or more individual property owners. The City cannot settle them. We have had home owners call in and state they should not have to pay a sewer bill when there is no renter in vacant home, but we cannot shut off sewer lines. Jackson County has given us a list of properties in Shady Cove that are in foreclosure. October 9th the trailer will be available for leaves to be dropped off. Pacific Power came and did the inspection and they will be back in a week, and we will update vendors for the reader board. We now have two storm sewers that are clogged in the same subdivision. On October 19th, Rogue Re-imagined will come out with their contractor to give a Presentation. The Natural Hazard Mitigation Plan has been reviewed with Ed Mayer and it will have to be posted on our website for public comment. The wild fire hazard map was presented to Jackson County and was opened up for public comment. ODOT came back with a lot of information regarding the welcome sign on the South end of town. Still having Riparian issues, with two of them involving DEQ.

Called on the Alert Wildfire cameras but no response yet. Still looking into one of the gas suppliers charging us taxes on gas. Requested ODOT clean curbs again. Construction on Hwy 62 will start on September 26<sup>th</sup>, weather permitting. Working with Rowan on another grant to possibly update City codes. Sent the Engineer out to Rene Dr, had it surveyed and that will be coming back to Council. Newsletter is ready to be reviewed, copies were handed out to Council so they can be marked on with any changes you would like to see. Paint Care Day was on September 16<sup>th</sup> and we took in 10,500 gallons of paint.

- -Councilor Nuckles- We need to discuss the welcome sign and make a decision on the size. Needs to be put on the next agenda to discuss.
- -Mayor Ball- Would like everyone to go look at a few signs and get an idea what size we want to go with and we will make a decision at next meeting.

#### **VI. OLD BUSINESS**

- A. Visual Calendar Update:
  - -Councilor Winfrey Pictures were reviewed and
  - Will be put together for each month of the year. All pictures will need releases.
  - -Mayor Ball- Need to move forward with the printer and get the layout done so we can get it completed.
- B. Short Term Rental Ordinance:
  - -Tom Corrigan- Still waiting for Attorney.

#### **VII. NEW BUSINESS**

#### A. Selection Committee Recommendations:

- -Debbie Glass- They have three recommendations. First recommendation is to use an all-inclusive recruiter. She thanked Lena for all the initial work she did calling some references. Out of the four originally considered, two were interviewed at the last meeting and Greg Prothman (GMP), was selected. Second recommendation is the job description. Third recommendation is the salary range they will get input from the recruiter.
- -Mayor Ball- Thanked Debbie and the Selection Committee for all the hard work they are putting into this Committee.
- -Councilor Mitchell- As one of the Liaisons for the City Administrator Selection Committee, he has attended all five of the meetings and the last meeting with the consultants on zoom, was very informative. He supports the recommendation to the Council for GMP.
- -Councilor Nuckles- She let the committee know they are doing an amazing job with all the meetings they have had in such a short time.
- Councilor Winfrey- Thanked the committee for all of their hard work.

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# Motion to Accept the Committees Recommendation to Hire GMP Consultants for \$17,500 Plus Expenses Estimated to be Between \$5,000 & \$7,000

Motion: Councilor Nuckles

Second: Councilor Winfrey

Motion Carried 4-0

- B. PRT Recommendations:
  - -Councilor Nuckles- She contacted PRT and they have no recommendations for Council meeting.
- C. Support for City Resolution to Oppose Measure 110:
  - -Mayor Ball- He would like the City to put forth a resolution for the recall of Measure 110. It has been a problem for the City of Shady Cove for a long time and needs to be recalled. He will have the letter written for next council meeting.
- D. OLCC renewals for City Businesses:
  - -City Administrator-Tom Corrigan- These are not new permits. A list comes from OLCC for us to approve each year.

# Motion to Approve the 14 Listed Businesses for the Renewal City Business License for OLCC

Motion: Councilor Mitchell

Second: Councilor Nuckles

Motion Carried: 4-0

#### VIII. WRITTEN COMMUNICATION

None

#### IX. PUBLIC COMMENT ON NON-AGENDA ITEMS

Jared Considine- Thanked everyone for coming. He thinks the biggest problem in Shady Cove is that wildfires are the number one threat to this town and we need to act promptly and work with public land managers and private property owners through all the different channels that are available through the State of Oregon Foundations. We need to protect our infrastructure. Need to discuss some of these things at Emergency Management Commission meeting.

#### X. COUNCIL COMMENTS ON NON-AGENDA ITEMS

- A. Councilor Winfrey- Thanked everyone for coming. Looking forward to the Birthday event coming up on Sunday.
- B. Councilor Mitchell- Thanked everyone for coming. A citizen confronted him about the noxious vegetation that is growing in this town. He let him know to just talk to his neighbor about their weeds and see if that will help.

Shady Cove City Council Regular Meeting Minutes of 9/21/2023 Page 5 of 5

- C. Councilor Nuckles- She has had many people make comments to her about how frustrated with the City's inability to enforce its ordinances. She feels that we as a Council need to find some kind of solution.
- D. Mayor Ball- It is very frustrating with the City not enforcing its ordinances but not sure what to do. Maybe have a work shop with Planning Commission and staff to figure out a solution.

#### **ADJOURNMENT**

There being no further business before the Council, Mayor Ball adjourned the meeting at 7:40 PM.

Approved:	Attest:	
Mayor Ball	 Thomas J. Corrigan City Administrator	
Council Vote: Mayor Ball Councilor Nuckles Councilor Winfrey Councilor Mitchell		

# Paid Invoice Report Check issue dates: 9/15/2023 - 9/29/2023

Page: 1 Sep 29, 2023 11:40AM

Report Criteria:

Detail report type printed

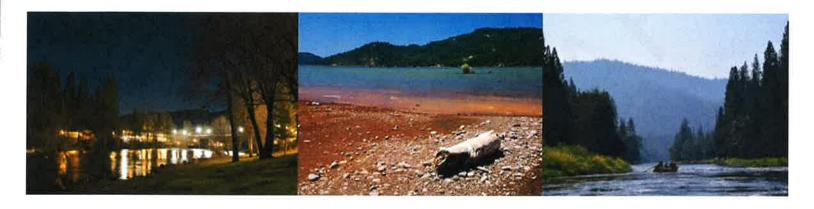
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Vendor Number	Name	Invoice Number	Description	Seq	Invoice Date	Invoice Amount	Discount Amount	Check Amount	Check Number	Check Issue Date
24	Canon Financial Services, I	31195780	Contract 09/01/2023-09/30/	1	09/11/2023	203.82	.00	203,82	50964	09/27/2023
Tot	tal 24:					203.82	.00	203,82		
43	Christian, David	09182023 09182023	Radio 09/18/2023-09/21/20 Radio 09/11/2023-09/15/20	1 2	09/21/2023 09/21/2023	90.00	.00	90,00	50965 50965	09/27/2023 09/27/2023
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221	Hunter Communications	435531	Phone/Internet	1	09/07/2023	705.92	.00	705.92	50967	09/27/2023
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257	AT&T Mobility	2872860888	Cell phones	1	09/05/2023	280,58	.00	280,58	50962	09/27/2023
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258	WECO - Carson	CP-0024488	Gas/Diesel 09/2023	1	09/18/2023	301.23	.00	301,23	50973	09/27/2023
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268	Project A, Inc.	231110	Web Custom Development	1	09/15/2023	200.00	.00	200,00	50971	09/27/2023
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310	Local Government Law Gr	67360	City of Shady Cove Labor	1	08/31/2023	405.00	.00	405.00	50969	09/27/2023
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		09012023	Amazon	9	09/12/2023	34,99	.00	34.99	50968	09/27/2023
		09012023	Amazon	10	09/12/2023	19.98	.00	19.98	50968	09/27/2023
		09012023	Amazon	11	09/12/2023	71.98	.00	71.98	50968	09/27/2023
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		09012023	Amazon admin stand up de	13	09/12/2023	139,99	::(*00	139.99	50968	09/27/2023
		09012023	zoom	14	09/12/2023	149,90	.00	149,90	50968	09/27/2023
		09012023	Rackspace	15	09/12/2023	292,92	.00	292.92	50968	09/27/2023

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430097	Pulcini, Mary	08242023	Music in the Park 8/27/23 d	1	08/24/2023	51,65	.00	51,65	50972	09/27/2023
Tota	al 430097:					51,65	.00	51.65		
430099	Brewer, Jeremy	09182023	DJ for Shady Cove Anniver	1	09/18/2023	250.00	00	250.00	50961	09/20/2023
Tota	al 430099:					250.00	.00	250.00		
430100	Bullee Dog Signs	276	8x4 banner, 4x2 banner, m	1	09/13/2023	160.00	-00	160,00	50963	09/27/2023
Tota	al 430100:					160,00	.00	160.00		
Gra	nd Totals:					5,393.95	.00	5,393.95		

Report Criteria:

Detail report type printed

# **Shady Cove Addendum** to the Jackson County NHMP



Photos courtesy of Oregon State Archives

**Effective:** 

December XX, 2023 through December XX, 2028

Prepared for City of Shady Cove P.O. Box 1210 22451 Highway 62 Shady Cove, OR 97539

#### Prepared by

The University of Oregon Institute for Policy Research & Engagement School of Planning, Public Policy, and Management



Institute for Policy Research and Engagement

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## Introduction

## **Purpose**

This is an update of the Shady Cove addendum to the Jackson County Multi-Jurisdictional Natural Hazard Mitigation Plan (MNHMP, NHMP). This addendum supplements information contained in Volume I (Basic Plan) which serves as the NHMP foundation and Volume II (Appendices) which provide additional information. This addendum meets the following requirements:

- Multi-Jurisdictional Plan Adoption §201.6(c)(5),
- Multi-Jurisdictional Participation §201.6(a)(3),
- Multi-Jurisdictional Mitigation Strategy §201.6(c)(3)(iv) and
- Multi-Jurisdictional Risk Assessment §201.6(c)(2)(iii).

Updates to Shady Cove's addendum are further discussed throughout the NHMP and within Volume II, Appendix B, which provides an overview of alterations to the document that took place during the update process.

Shady Cove adopted their addendum to the Jackson County Multi-jurisdictional NHMP on [date], 2023. FEMA Region X approved the Jackson County NHMP on [date], 2023 and the City's addendum on [date], 2023. With approval of this NHMP, the City is now eligible for non-disaster and disaster mitigation project grants through [date-1], 2028.

# NHMP Process, Participation and Adoption

This section of the NHMP addendum addresses 44 CFR 201.6(c)(5), Plan Adoption and 44 CFR 201.6(a)(3), Participation.

In addition to establishing a comprehensive city level mitigation strategy, the Disaster Mitigation Act of 2000 (DMA2K), and the regulations contained in Title 44 CFR Part 201, require that jurisdictions maintain an approved NHMP to receive federal funds for mitigation projects. Local adoption, and federal approval of this NHMP ensures that the city will remain eligible for nondisaster and disaster mitigation project grants. Shady Cove was included as an addendum in the 2012 and 2018 Jackson County NHMP processes.

The Oregon Partnership for Disaster Resilience (OPDR) at the University of Oregon's Institute for Policy Research and Engagement (IPRE) partnered with the Oregon Department of Emergency Management (OEM), Jackson County, and Shady Cove to update their NHMP. This project is funded through the Federal Emergency Management Agency's (FEMA) Hazard Mitigation Grant Program. Members of the Shady Cove NHMP steering committee also participated in the County NHMP update process (Volume II, Appendix B).

By updating the NHMP, locally adopting it, and having it approved by FEMA, Shady Cove maintains eligibility for FEMA Hazard Mitigation grant program funds.

The Jackson County NHMP and Shady Cove addendum are the result of a collaborative effort between citizens, public agencies, non-profit organizations, the private sector, and regional organizations. A project steering committee guided the process of developing the NHMP.

#### **Convener and Committee**

The Shady Cove City Administrator served as the designated convener of the NHMP update and the Public Works Director will take the lead in implementing, maintaining, and updating the addendum to the Jackson County NHMP in collaboration with the designated convener of the Jackson County NHMP (Emergency Manager).

Representatives from the City of Shady Cove steering committee met formally and informally, to discuss updates to their addendum (Volume II, Appendix B). The steering committee reviewed and revised the City's addendum, with particular focus on the NHMP's risk assessment and mitigation strategy (action items).

This addendum reflects decisions made at the designated meetings and during subsequent work and communication with Jackson County Emergency Management and the OPDR.

The Shady Cove Steering Committee was comprised of the following representatives:

- Convener, Tom Corrigan, City Administrator
- Travis Crume, Chief, Jackson County Fire District #4
- Rowan Fairchild, Planner (RVCOG)
- Ed Mayer, Emergency Management Consultant
- Spencer McMahon, Public Works
- Kathy Nuckles, Council President

The steering committee was closely involved throughout the development of the NHMP and served as the local oversight body for the NHMP's development.

# NHMP Implementation and Maintenance

The City Council will be responsible for adopting the Shady Cove addendum to the Jackson County NHMP. This addendum designates a steering committee and a convener to oversee the development and implementation of action items. Because the City addendum is part of the County's multi-jurisdictional NHMP, the City will look for opportunities to partner with the County. The City's steering committee will convene after re-adoption of the Shady Cove NHMP addendum on an annual schedule. The County is meeting on a semi-annual basis and will provide opportunities for the cities to report on NHMP implementation and maintenance during their meetings. The City Administrator will serve as the convener and will be responsible for assembling the steering committee.

The steering committee will be responsible for:

Reviewing existing action items to determine suitability of funding;

- Reviewing existing and new risk assessment data to identify issues that may not have been identified at NHMP creation;
- Educating and training new steering committee members on the NHMP and mitigation actions in general;
- Assisting in the development of funding proposals for priority action items;
- Discussing methods for continued public involvement;
- Evaluating effectiveness of the NHMP at achieving its purpose and goals (use Table 4-1, Volume I, Section 4, as one tool to help measure effectiveness); and
- Documenting successes and lessons learned during the year.

The convener will also remain active in the County's implementation and maintenance process (Volume I, Section 4).

The steering committee will be responsible for activities outlined in Volume I, Section 4.

The City will utilize the same action item prioritization process as the County (Volume I, Section 4 and Volume II, Appendix D).

# Implementation through Existing Programs

Many of the Natural Hazard Mitigation Plan's recommendations are consistent with the goals and objectives of the City's existing plans and policies. Where possible, Shady Cove will implement the NHMP's recommended actions through existing plans and policies. Plans and policies already in existence have support from residents, businesses, and policy makers. Many land-use, comprehensive, and strategic plans get updated regularly, allowing them to adapt to changing conditions and needs. Implementing the NHMP's action items through such plans and policies increases their likelihood of being supported and implemented.

Shady Cove's acknowledged comprehensive plan is the City of Shady Cove Comprehensive Plan administered by the Shady Cove Planning Commission. The City implements the plan through the Community Development Code.

Shady Cove currently has the following plans that relate to natural hazard mitigation. For a complete list visit the City's <u>website</u>:

- Comprehensive Plan (2016)
- Municipal Code (Flood Ordinance updated in 2017, Riparian Ordinance, 2016)
- Emergency Operations Plan (2012)
- Stormwater Master Plan
- <u>Building Codes and Standards</u>: <u>Oregon Structural Specialty Code</u> (Commercial) and <u>Oregon Residential Specialty Code</u>.

#### **Integration Since Last NHMP**

Since the previous NHMP there have been no direct activities taken to integrate the NHMP into other planning mechanisms. However, the City maintains development codes and ordinances, which include a flood ordinance (last revised in 2017). Structural Building Codes are regulated by

the Oregon Legislature and were last revised in 2021 (residential), 2022 (commercial). As such, Jackson County (and cities) benefit by adopting these minimum standard building codes as established by the State to capture home hardening and building resilience during new construction and substantial improvement of existing construction. The Building Codes are based on the 2021 version of the International Building Code, International Fire Code, and International Existing Building Code. As such new and existing residential and commercial structures are required to building according to the latest seismic and wind standards. Additionally, the codes require fire resistant building materials for those structures constructed near or within the WUI.

During the update of this NHMP City plans including the comprehensive land use, transportation/roads, water, and stormwater plans were reviewed to identify possible natural hazard mitigation strategies (action items).

#### **Expand and Improve Capabilities and Integration Process**

Funding and staff resource availability is the primary constraint to achieving natural hazard mitigation priorities. As such the City has identified actions (Table SA-1) that seek to expand and improve capabilities to achieve natural hazard mitigation.

In addition, the City will seek opportunities to integrate the plan's data, information, and hazard mitigation goals and actions into other planning mechanisms (e.g., budgets, ordinances, comprehensive plan, water, wastewater, and transportation system plans). See Volume I, Section 4 for additional information.

# **Mitigation Strategy**

This section of the NHMP addendum addresses 44 CFR 201.6(c)(3(iv), Mitigation Strategy.

The City's mitigation strategy (action items) was first developed during the 2012 NHMP planning process. During this process, the steering committee assessed the City's risk, identified potential issues, and developed a mitigation strategy (action items).

During the 2017 and 2023 updates, the City re-evaluated and updated their mitigation strategy (action items). During these processes, action items were updated, noting what accomplishments had been made and whether the actions were still relevant, and new action items were defined.

# **Mitigation Successes**

The community of Shady Cove has several examples of hazard mitigation including the following projects funded through FEMA <u>Hazard Mitigation Assistance</u> and the Oregon Infrastructure Finance Authority's <u>Seismic Rehabilitation Grant Program</u><sup>1</sup>.

#### **FEMA Funded Mitigation Successes**

2023: DR4562-42 – Shady Cove Wildfire Mitigation Project (Rogue Basin Partnership)
 (\$1,118,000) - PENDING

#### **Seismic Rehabilitation Grant Program Mitigation Successes**

2018: Shady Cove Fire Station (Jackson County Fire District 4) (\$166,556)

## **Action Items**

Table SA-1 documents the title of each action along with, the lead organization, partners, timeline, cost, and potential funding resources.

<sup>&</sup>lt;sup>1</sup> The Seismic Rehabilitation Grant Program (SRGP) is a state of Oregon competitive grant program that provides funding for the seismic rehabilitation of critical public buildings, particularly public schools, and emergency services facilities.

#### Table SA-1 Action Items

Action tem#	Mitigation Actions	Potential Funding Resources	Lead	Partners	Timeline	Cost
/lulti-ha:	zard					
1.1	Incorporate hazard-resilient development design and siting of infrastructure into development code, ordinances, and updated Stormwater Master Plan.	Local Funding Resources, DLCD Technical Assistance Grant	City Administration	City Planning, City Building	o	t
1.2	Integrate the Mitigation Plan findings into planning and regulatory documents and programs including the Comprehensive Plan (particularly Goal 7).	Local Funding Resources, DLCD Technical Assistance Grant	City Planning	RVCOG, DLCD, FEMA	М	ι
1.3	Enhance hazard resistant construction methods (wind, winter storm, landsilde, etc.) where possible to reduce damage to utilities and critical facilities. In part, this may be accomplished by encouraging electric utility providers to convert existing overhead lines to underground lines.	Local Funding Resources	City Planning, Public Works	Utility Partners	o	Ĺ
ir Qualit	У					
2.1	Sustain public outreach and education program around air quality index.	Local Funding Resources	City Administration	Jackson County Health & Human Services, OHA, Media	0	L
rought						- 11
3.0	See mult	hazard actions for	r applicable mitigation	an atratagles		

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Action Item#	Mitigation Actions	Potential Funding Resources	Lead	Partners	Timeline	Cost
Earthqua	ke					
4.1	Implement structural and non-structural retrofits to City Hall and other critical facilities.	Local Funding Resources, FEMA (HMA), SRGP	City Administration	Building Officials, Planning, Public Works	t	Н
Emerging	Infectious Disease					
5.0	See mul	ti-hazard actions fo	r applicable mitigati	on strategies.		
Flood						
6.1	Ensure continued compliance in the National Float insurance Program (NFIP) through enforcement of local floodplain management ordinances.	Local Funding Resources, DLCO Technical Assistance Grant	City Floodplain Management	City Planning, FEMA, DLCD	Ĺ	Ĺ
6.2	Conduct public outreach through written and online communications for target audiences on National Flood Insurance Program, mitigation activities, and potential assistance from FEMAs Flood Mitigation Assistance and Hazard Mitigation Grant Programs. Include outreach regarding strapping to mobile homeowners.	Local Funding Resources	Floodplain Management	City Planning, City Emergency Management, Upper Rogue Watershed Council, DLCD, FEMA, OEM	0	·
6.3	Encourage private property owners to restore natural systems within the floodplain, and to manage riparian areas and wetlands for flood abatement.	Local Funding Resources, DLCD, OEM, FEMA, OPRD (Local Government Grant Program)	City Planning	Planning Commission, Floodplain Management, FEMA, County Emergency Management, Upper Rogue Watershed, DEQ, ODFW, DLCD, RVCOG, Rogue Fly Fishers, County Parks	0	Ĺ

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Action tem#	Mitigation Actions	Potential Funding Resources	Lead	Partners	Timeline	Cost
6.4	Protect wastewater lift stations and parks in floodplains. Include these priorities in the updated Stormwater Master Plan.	Local Funding Resources, DLCD, FEMA, ASFPM, DEQ	City Planning	City Public Works, City Floodplain Management, Rogue Valley Sewer Services, Upper Rogue Watershed Council, RVCOG	Ė	M
6.5	Identify current capabilities and research options to secure an early warning system (EWS) for dam failure or flood. Continue to improve emergency communications and conduct outreach with the public.	Local Funding Resources, DLCD, FEMA, ASFPM, DEQ	City Emergency Management	County Emergency Management, OEM, DLCD, USACE, Silver Jackets	М	Ĺ
6.6	Create a dam failure evacuation plan for the City. Coordinate with Jackson County Emergency Management and the US Army Corps of Engineers to ensure that current inundation data is used during risk analysis and encourage collaboration and information sharing.	Local Funding Resources, PDM, FMA, HMGP, PA, Silver Jackets	City Emergency Management	County Emergency Management, USACE, Silver Jackets	s	ı

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Action Item#	Mitigation Actions	Potential Funding Resources	Lead	Partners	Timeline	Cost
Severe W	Veather (Extreme Heat, Windstorm, Winter Storm)					
8.1	Continue to ensure emergency power for critical facilities, including the Fire Department.	Local Funding Resources, FEMA (HMA)	City Emergency Management	City Hazard Mitigation Committee, Granting Organization, Upper Rogue Community Center	0	М
8.2	Develop and sustain tree-trimming and removal programs to keeps trees from threatening lives, property, and public infrastructure during severe weather events.	Local Funding Resources, Utility Partners, HMA	City Emergency Management	City Public Works, Utility Partners, Local Arborists and Tree Services	S	ι
8.3	Continue to support Community Center cooling centers during extreme heat events and publicize Information to the public.	Local Funding Resources	City Administration	Local Organizations, Media	0	ι
olcanic I	Event					
9.0	See mult	ti-hazard actions fo	r applicable mitigat	ion strategies.		
ildfire/	والمستنافي المراا والمتنا			, T = 1		
10.1	Conduct public outreach for individual property owners fiving in the Wildland/Urban Interface (WUI), after mapping project.	Local Funding Resources, Fire and Rescue Districts, ODF, Firewise	City Emergency Management	City Hazard Mitigation Committee, JCFDE4, Firewise Project Coordinator, Media, FEMA, OEM, DLCD, OSFM, ODF, BLM, USFS, Insurance and Real Estate Companies, Jackson County Sheriff's Department	O	ι

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Action Item#	Mitigation Actions	Potential Funding Resources	Lead	Partners	Timeline	Cost
10.2	Partner with Jackson County (and Rogue Reimagined) on implementation of the Rogue Valley Integrated Community Wildfire Protection Plan and outreach projects.	Fire and Ressuc Districts, GEM, ODF	City Planning	Public Works. Administration. Jackson County, JCFD#4, BLM - Modford District. ODF, OSFM	o	IVI
10.3	Reduce wildfire fuels and continue to source equipment for fuel reduction. Continue to promote and enhance "Firewise Community" Program.	Local Funding Resources, ODF, Firewise, OSFM Grant	City Emergency Management	City Hazard Mitigation Committee, JCFD#4, Firewise, ODF, BLM, USFS, OSFM	o	н
10.4	Distribute public outreach materials and in- person signage informing residents about wildfire hazards and mitigation actions they can take to protect their property.	Local Funding Resources, ODF, Firewise	City Emergency Management	City Hazard Mitigation Committee, JCFD #4, Firewise, OSFM, ODF, BLM, USFS	S	· ·
10.5	Increase communication and coordination with Jackson County Fire District #4 to better prepare for hazard events. Establish regular meetings or coordination intervals and share concerns and experiences to provide better response to local needs.	Local Funding Resources	City Administration	Jackson County Fire District #4	S	ι

Source: Shady Cove NHMP Steering Committee, updated 2023
Cost: L – Low (less than \$50,000), M - Medium (\$50,000-\$100,000), H - High (more than \$100,000)
Timing: O-Ongoing (continuous), S-Short (1-2 years), M-Medium (3-5 years), L-Long (5 or more years)
Priority Actions: Identified with bold text and orange highlight

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# **Risk Assessment**

This section of the NHMP addendum addresses 44 CFR 201.6(b)(2) - Risk Assessment. In addition, this chapter can serve as the factual basis for addressing Oregon Statewide Planning Goal 7 – Areas Subject to Natural Hazards.

Assessing natural hazard risk has three phases:

- **Phase 1:** Identify hazards that can impact the jurisdiction. This includes an evaluation of potential hazard impacts type, location, extent, etc.
- Phase 2: Identify important community assets and system vulnerabilities. Example vulnerabilities include people, businesses, homes, roads, historic places and drinking water sources.
- **Phase 3:** Evaluate the extent to which the identified hazards overlap with or have an impact on, the important assets identified by the community.

The local level rationale for the identified mitigation strategies (action items) is presented herein and within Volume I, Sections 2 and 3. The risk assessment process is graphically depicted in Figure SA-1. Ultimately, the goal of hazard mitigation is to reduce the area of risk, where hazards overlap vulnerable systems.

Figure SA-1 Understanding Risk **Understanding Risk** DISASTER RESILIENCE Natural Hazard **Vulnerable System** Potential Catastrophic Exposure, Sensitivity and Chronic Physical Events and Resilience of: Risk Past Recurrence Intervals · Population Future Probability of · Economic Generation Speed of Onset Built Environment · Academic and Research Functions Magnitude Disaster Duration Cultural Assets Spatial Extent Infrastructure Ability, Resources and Willingness to: · Mitigate · Respond Prepare • Recover Source: USGS- Oregon Partnership for Disaster Resilience Research Collaboration, 2006

# **Hazard Analysis**

The Shady Cove steering committee developed their hazard vulnerability assessment (HVA), using their previous HVA and the County's HVA (Volume II, Appendix C) as a reference. Changes from the County's HVA were made where appropriate to reflect distinctions in vulnerability and risk from natural hazards unique to Shady Cove, which are discussed throughout this addendum.

Table SA-2 shows the HVA matrix for Shady Cove listing each hazard in order of rank from high to low. For local governments, conducting the hazard analysis is a useful step in planning for hazard mitigation, response, and recovery. The method provides the jurisdiction with a sense of hazard priorities but does not predict the occurrence of a particular hazard.

One catastrophic hazards (Cascadia Subduction Zone earthquake) and four chronic hazards (wildfire, emerging infectious disease, flood, and winter storm) rank as the top hazard threats to the City (Top Tier). Extreme heat, air quality, windstorm, and landslide comprise the next highest ranked hazards (Middle Tier), while drought, crustal earthquake, and volcanic events comprise the lowest ranked hazards (Bottom Tier).

**Table SA-2 Hazard Analysis Matrix** 

Hazard	History	Vulnerability	Maximum Threat	Probability	Total Threat Score	Hazard Rank	Hazard Tiers
Wildfire	20	50	100	56	226	#1	7-310
Emerging Infectious Disease	16	40	100	49	205	#2	The in
Earthquake - Cascadia	2	50	100	49	201	#3	Top Tier
Flood	20	40	70	70	200	#4	1101
Winter Storm	20	50	60	70	200	#4	
Extreme Heat	20	25	70	70	185	#6	
Air Quality	18	40	60	63	181	#7	Middle
Windstorm	20	20	50	70	160	#8	Tier
Landslide	2	40	60	56	158	#9	5 1
Drought	16	20	50	63	149	#10	Dottono
Earthquake - Crustal	2	25	50	21	98	#11	Bottom
Volcanic Event	2	5	50	7	64	#12	Tier

Source: Shady Cove NHMP Steering Committee, 2023.

# **Community Characteristics**

Table SA-3 and the following section provides information on City specific demographics and characteristics. For additional information on the characteristics of Shady Cove, in terms of geography, environment, population, demographics, employment and economics, as well as housing and transportation see Volume IIII, Appendix C. Many of these community characteristics can affect how natural hazards impact communities and how communities choose to plan for natural hazard mitigation. Considering the City specific assets during the planning process can assist in identifying appropriate measures for natural hazard mitigation.

Shady Cove is in Jackson County in southwestern Oregon. It is in the northern region of the county. Oregon Route 62 is the main road through the community, leading north 2 miles to

Trail and south 21 miles to the City of Medford, the Jackson County seat. The western boundary of Crater Lake National Park is 43 miles to the northeast via Route 62. The City and most of Jackson County are within the Rogue watershed.

Shady Cove experiences a relatively mild climate with four distinct seasons that comes from its position on the west coast of North America and within the mountains of the region. As a result of its location, Shady Cove has a climate somewhat intermediate to central California and northern Oregon. The city averages about 31 inches of rain.<sup>2</sup> Most of the rain (28.6 inches) falls between October and May.

#### **Population and Income**

The City was incorporated in 1973 and has an area today of 2.01 square miles ( $5.21 \text{ km}^2$ ), of which 1.91 square miles ( $4.95 \text{ km}^2$ ) is land and 0.10 square miles ( $0.26 \text{ km}^2$ ) is water. Between 2016 and 2021 the City grew by 55 people (2%), from 3,040 to 3,095. During this same period, median household incomes in the area increased by 60%.

According to the State's official coordinated population forecast, between 2021 and 2040 the City's population is forecast to increase by 10% to 3,398. Most of the population is White/Caucasian (93%) and about 6% of the population is Hispanic or Latino. The poverty rate is 11% (8% for Seniors), only 2% do not have health insurance, and 56% of renters pay more than 30% of their household income on rent (11% for owners). The city has an educated population with 92% of residents 25 years, and older holding a high school degree, 19% have a bachelor's degree or higher. Approximately 25% of the population lives with a disability, and 17% are either below 18 (25%) or over 65 (31%) years of age. About 19% of the population are 65 or older and living alone and 6% are single parents.

#### Transportation, Housing, and Infrastructure

In the City of Shady Cove, transportation has played a major role in shaping the community. Shady Cove's commercial areas developed along primary routes and residential development followed nearby. Today, mobility plays an important role in Shady Cove and the daily experience of its residents and businesses as they move from point A to point B. The City is primarily serviced by State Route 62, and is divided by the Rogue River into two halves.

By far, motor vehicles represent the dominant mode of travel through and within Shady Cove. Sixty percent (60%) of renters and 79% of owners have two or more vehicles, although 26% of renters do not have access to a car.

Development in the City includes 1.91 square miles of land. The City of Shady Cove includes a diversity of land uses but is zoned primarily residential. The city's <u>Comprehensive Plan</u> identifies land use needs within the city and its urban growth boundary (see <u>Zoning Map</u>). Since the previous NHMP (2018) the city has not annexed any land or had major development occur in the city. New development has complied with the standards of the <u>Oregon Building Code</u> and the city's development code including their floodplain ordinance.

<sup>&</sup>lt;sup>2</sup> NOAA. National Centers for Environmental Information. Summary of Monthly Normals (1991-2010). Station: SHADY COVE 0.2 S, OR US US10RJC0018. <a href="https://www.ncei.noaa.gov/access/services/data/v1?dataset=normals-monthly-1991-2020&startDate=0001-01-01&endDate=9996-12-31&stations=US10RJC0018&format=pdf">https://www.ncei.noaa.gov/access/services/data/v1?dataset=normals-monthly-1991-2020&startDate=0001-01-01&endDate=9996-12-31&stations=US10RJC0018&format=pdf</a>

Sixty-seven percent (67%) of housing units are single-family and 21% are mobile homes. Less than one quarter of homes (19%) were built before 1970. Most (65%) were built after 1990. Newer homes are more likely to be built to current seismic, flood, wildfire, and other hazard standards. Sixty-three percent (63%) of housing units are owner occupied and 26% are renter occupied, while 5% are seasonal homes, and 6% are vacant.

The City of Shady Cove Public Works Department maintains Aunt Caroline's Park, City Streets, and a variety of other services within the City. Jackson County Public Works is contracted by the City to do heavier work such as paving of streets, ditch maintenance, and crack sealing. Not all streets are City streets. There are a variety of "shared, private drives" in Shady Cove.

#### **Economy**

A diverse range of businesses have chosen to locate in Shady Cove. Shady Cove's location on the Rogue River and its proximity to Crater Lake National Park give it market access that is more favorable than usual for a rural town.

About 42% of the resident population 16 and over is in the labor force (1,277 people) and are employed in a variety of occupations including construction, extraction, and maintenance (20%), sales and related (17%), transportation and material moving (17%), professional and related (16%), and management, business, and financial (9%) occupations. Most workers drive alone to work (64%), however, 20% work at home while 10% carpooled and 4% either walk or use a bicycle.

Most workers residing in the city (93%, 757 people) travel outside of the city for work primarily to Medford and surrounding areas.<sup>3</sup> A significant population of people travel to the city for work, (84% of the workforce, 308 people) primarily from Medford, Eagle Point, and surrounding areas.<sup>4</sup>

<sup>&</sup>lt;sup>4</sup> Ibid.



<sup>&</sup>lt;sup>3</sup> U.S. Census Bureau. LEHD Origin-Destination Employment Statistics (2002-2020). Longitudinal-Employer Household Dynamics Program, accessed on August 17, 2023 at <a href="https://onthemap.ces.census.gov">https://onthemap.ces.census.gov</a>.

**Table SA-3 Community Characteristics** 

Population Characteristics		a lot
2016 Population Estimate	3,040	
2021 Population Estimate	3,095	
2040 Population Forecast*	3,398	
Race		
American Indian and Alaska Native		1%
Asian		0%
Black/ African American		< 1%
Native Hawaiian and Other Pacific Isl	ander	0%
White		93%
Some Other Race		< 1%
Two or More Races		5%
Hispanic or Latino/a (of any race)		6%
Limited or No English Spoken	0	0%
Vulnerable Age Groups		
Less than 5 Years	113	4%
Less than 18 Years	385	13%
65 Years and Older	926	30%
85 Years and Older	31	1%
Age Dependency Ratio		74.4
Disability Status (Percent age cohort)		
Total Disabled Population	754	25%
Children (Under 18)	171	44%
Working Age (18 to 64)	239	14%
Seniors (65 and older)	344	37%

Household Characteristics		10.0
Housing Units		
Single-Family (includes duplexes)	993	67%
Multi-Family	173	12%
Mobile Homes (includes RV, Van, etc.)	316	21%
Household Type		
Family Household	936	71%
Married couple (w/ children)	142	11%
Single (w/ children)	73	6%
Living Alone 65+	256	19%
Year Structure Built		
Pre-1970	278	19%
1970-1989	237	16%
1990-2009	795	65%
2010 or later	172	12%
Housing Tenure and Vacancy		
Owner-occupied	936	63%
Renter-occupied	381	26%
Seasonal	81	5%
Vacant	84	6%
Vehicles Available (Occupied Units)		1,000
No Vehicle (owner occupied)	29	3%
Two+ vehicles (owner occupied)	741	79%
No Vehicle (renter occupied)	98	26%
Two+ vehicles (renter occupied)	227	60%

Income Characteristics			
Households by Income Category			
Less than \$15,000	106	8%	
\$15,000-\$29,999	201	15%	
\$30,000-\$44,999	247	19%	
\$45,000-\$59,999	130	10%	
\$60,000-\$74,999	151	11%	
\$75,000-\$99,999	65	5%	
\$100,000-\$199,999	370	28%	
\$200,000 or more	47	4%	
Median Household Income		\$56,114	
Gini Index of Income Inequality		0.43	
Poverty Rates (Percent age cohort)			
Total Population	333	11%	
Children (Under 18)	144	37%	
Working Age (18 to 64)	111	6%	
Seniors (65 and older)	78	8%	
Housing Cost Burden (Cost > 30% of	household	income)	
Owners with a Mortgage	84	9%	
Owners without a Mortgage	15	2%	
Renters	213	56%	

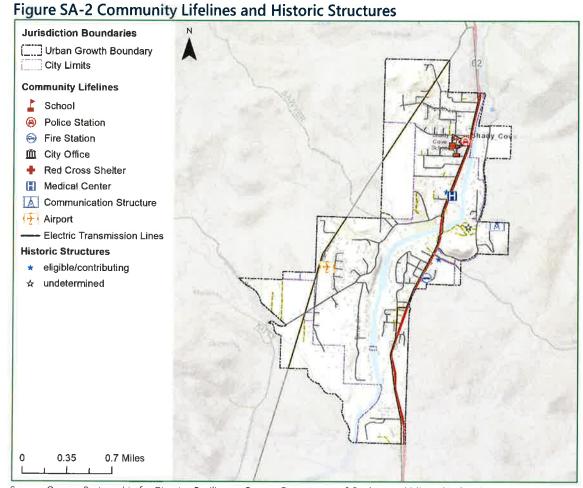
Employment Characteristics	777	
Labor Force (Population 16+)		
In labor Force (% Total Population)	1,277	42%
Unemployed (% Labor Force)	68	5%
Occupation (Top 5) (Employed 16+)		
Construction, Extraction, & Maint.	236	20%
Sales & Related	207	17%
Transportation and Material Moving	200	17%
Professional & Related	192	16%
Management, Business, & Financial	113	9%
Health Insurance		
No Health Insurance	55	2%
Public Health Insurance	1,870	61%
Private Health Insurance	1,986	65%
Transportation to Work (Workers 16+)		
Drove Alone	708	64%
Carpooled	113	10%
Public Transit	18	2%
Motorcycle	0	0%
Bicycle/Walk	47	4%
Work at Home	219	20%

Source: U.S. Census Bureau, 2017-2021 American Community Survey 5-Year Estimates; Portland State University, Population Research Center, "Annual Population Estimates, Table 4", 2016 and 2021; and "Population Forecasts, Summary Tab", 2022. Note 1: \* = Population forecast within UGB

Note 2: ACS 5-year estimates represent average characteristics from 2017-2021. Sampling error may result in low reliability of data. This information or data is provided with the understanding that conclusions drawn from such information are the responsibility of the user. Refer to the original <u>source</u> documentation to better understand the data sources, results, methodologies and limitations of each dataset presented.

# **Community Assets**

This section outlines the resources, facilities, and infrastructure that, if damaged, could significantly impact the public safety, economic conditions, and environmental integrity of Shady Cove. Community lifelines and historic structures in Shady Cove are shown in Figure SA-2. Table SA-4 provides exposure information for some community lifelines.



Source: Oregon Partnership for Disaster Resilience, Oregon Department of Geology and Mineral Industries.

**Table SA-4 Community Lifelines** 

Facility Name	Community Lifeline Category	Lifeline Type	Earthquake- Liquefaction Hazard	Flood Hazard	Landslide Hazard	Wildfire Hazard
Upper Rogue Community Center	food, water, and shelter	red cross shelter	very high	minimal	low	low
Crater Lake Medical South	health and medical	medical facility	very high	500-Year	low	low
Shady Cove City Hall	safety and security	city hall	very high	minimal	moderate	low
Shady Cove Library	safety and security	library	very high	minimal	moderate	low
Jackson County Fire District 4 - Shady Cove	safety and security	fire station	very high	500-Year	low	low
Shady Cove Police Department	safety and security	police station	very high	500-Year	low	low
Shady Cove Public Works	safety and security	public works	very high	minimal	moderate	low
Sewer Treatment Plant	safety and security	public works	very high	minimal	moderate	moderate
Shady Cove School	safety and security	school	very high	minimal	moderate	low
Shady Cove Airpark	transportation	airport	low	minimal	low	moderate
Communication Structure	communications	communication structure	none	minimal	high	moderate

Source: Oregon Department of Geology and Mineral Industries, Shady Cove NHMP Steering Committee

#### Infrastructure:

Infrastructure that provides services for the City includes:

#### **Transportation Networks:**

- Highway 62
- Rogue River Dr
- Old Ferry Rd
- Indian Creek Rd
- Shady Cove Airfield (Rogue Air Dr)

#### **Water Facilities:**

- 5 Wastewater Lift Stations, and about 1,000 private wells
- Wastewater Facility

#### **Private Utilities:**

- Pacific Power
- Communication Towers
- Community Water Companies (about 15% of population served by private water)
  - o Hiland Water
  - o Anglers Cove/Shady Cove Heights Water Co

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#### **Critical Facilities**

Facilities that are critical to government response and recovery activities (i.e., life, safety, property, and environmental protection). These facilities include: 911 Centers, Emergency Operations Centers, Police and Fire Stations, Public Works facilities, sewer and water facilities, hospitals, bridges, roads, shelters, and more. Facilities that, if damaged, could cause serious secondary impacts may also be considered "critical." A hazardous material facility is one example of this type of critical facility.

#### Fire Stations:

• Jackson County Fire District #4

#### Law Enforcement:

Jackson County Sheriff substation

#### City Buildings:

- City Hall (EOC)
- Public Works shop

#### Private:

- Shady Cove Market
- Shady Cove Hardware
- Dollar Store
- Shady Cove Pharmacy

#### **Essential Facilities**

Facilities that are essential to the continued delivery of key government services and/or that may significantly impact the public's ability to recover from the emergency. These facilities may include City buildings such as the Public Services Building, the City Hall, and other public facilities such as schools.

# Hospitals/Immediate Medical Care Facilities:

Shady Cove Clinic

#### Public Schools:

 Shady Cove Elementary/ Middle School

#### City/County/Other Buildings:

Shady Cove Library (County)

#### Potential Shelter Sites:

- All schools
- Assembly of God
- Our Lady of Fatima Parish
- Shady Cove Church of Christ
- St. Martin's Episcopal Church
- Dependence Church
- Trail Christian (in County)
- Jehovah's Witness Hall
- Upper Rogue Community Center

## Hazard Characteristics

The following sections briefly describe relevant information for each profiled hazard. More information on Jackson County hazards can be found in Volume 1, Section 2 *Risk Assessment* and in the <u>Risk Assessment for Region 4</u>, Southwest Oregon, Oregon SNHMP (2020).

#### Air Quality

The steering committee determined that the City's probability for poor air quality is **high** (which is the same as the County's Rating) and that their vulnerability to poor air quality is also **high** (which is the same as the County's Rating). This hazard was not assessed in the previous version of this NHMP.

Volume I, Section 2 describes the characteristics of air quality hazards, history, how they relate to future climate projections, as well as the location, extent, and probability of a potential event. Increases in wildfire conditions have shown an increasing potential for air quality hazards.

Additional information on air quality hazards can be found in Volume I, Section 2.

#### Drought

The steering committee determined that the City's probability for drought is **high** (which is the same as the County's rating) and that their vulnerability to drought is **moderate** (which is the same as the County's rating). The probability rating stayed the same and the vulnerability rating decreased since the previous version of this NHMP.

Volume I, Section 3 describes the characteristics of drought hazards and their history, as well as the location, extent, and probability of a potential event. Due to the climate of Jackson County, past and present weather conditions have shown an increasing potential for drought.

The City receives its main water supply directly from the Rogue River and a series of local wells (there are about 1,000 private wells and about 15% of the population receive water from private water companies). For more information on the future of Shady Cove's water supply visit their website.

Please review Volume I, Section 3 for additional information on this hazard.

## Earthquake (Cascadia)

The steering committee determined that the City's probability for a Cascadia Subduction Zone (CSZ) earthquake is **moderate** (which is the same as the County's rating) and that their vulnerability to a CSZ earthquake is **high** (which is the same as the County's rating). The probability rating decreased and the vulnerability rating stayed the same since the previous version of this NHMP.

Volume I, Section 3 describes the characteristics of earthquake hazards and their history, as well as the location, extent, and probability of a potential event. Generally, an event that affects the County is likely to affect Shady Cove as well. The causes and characteristics of an earthquake event are appropriately described within Volume I, Section 3, as well as the location and extent of potential hazards. Previous occurrences are well documented within Volume I, Section 3 and the community impacts described by the County would generally be the same for Shady Cove as well.

Figure SA-3 displays perceived shaking hazards from a Cascadia Subduction Zone earthquake event. As shown in the figure below, the area of greatest concern within the City of Shady Cove (darker areas) is along the river and mountainous areas.

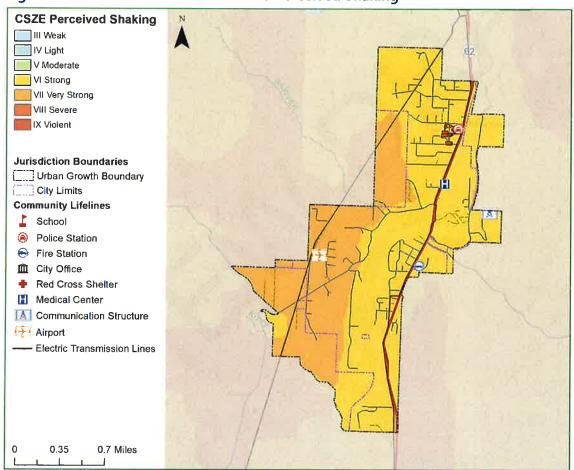


Figure SA-3 Cascadia Subduction Zone Perceived Shaking

Source: Oregon Partnership for Disaster Resilience. Oregon Department of Geology and Mineral Industries. Note: To view detail click this <u>link</u> to access Oregon HazVu.

The local faults, the county's proximity to the Cascadia Subduction Zone, potential slope instability, and the prevalence of certain soils subject to liquefaction and amplification combine to give the County a high-risk profile. Due to the expected pattern of damage resulting from a CSZ event, the Oregon Resilience Plan divides the State into four distinct

zones and places Jackson County predominately within the "Valley Zone" (Valley Zone, from the summit of the Coast Range to the summit of the Cascades). Within the Southwest Oregon region, damage and shaking is expected to be strong and widespread - an event will be disruptive to daily life and commerce and the main priority is expected to be restoring services to business and residents.<sup>5</sup>

As noted in the community profile, approximately 35% the housing in Shady Cove was built after 1990, which decreases the City's vulnerability to the earthquake hazard. Information on specific public buildings' (schools and public safety) estimated seismic resistance, determined by DOGAMI in 2007, is shown in Table SA-5; each "X" represents one building within that ranking category. Of the facilities evaluated by DOGAMI using a Rapid Visual Survey (RVS), two (2) have a high (greater than 10% chance) collapse potential and zero (0) have a very high (100% chance) collapse potential.

In addition to building damages, utility (electric power, water, wastewater, natural gas), and transportation systems (bridges, pipelines) are also likely to experience significant damage. There is a low probability that a major earthquake will result in failure of upstream dams like Lost Creek Dam.

Utility systems will be significantly damaged, including damaged buildings and damage to utility infrastructure, including water and wastewater treatment plants and equipment at high voltage substations (especially 230 kV or higher which are more vulnerable than lower voltage substations). Buried pipe systems will suffer extensive damage with approximately one break per mile in soft soil areas. There would be a much lower rate of pipe breaks in other areas. Restoration of utility services will require substantial mutual aid from utilities outside of the affected area.

**Table SA-5 Rapid Visual Survey Scores** 

Facility	Site ID*	Level of Collapse Potential			
		Low (< 1%)	Moderate (>1%)	High (>10%)	Very High (100%)
Schools			BE WELL	A CHILLIAN	1 N
Shady Cove School (Eagle Point SD 9) (37 Schoolhouse Ln)	Jack_sch45	Х		Х	
Public Safety		Suran To		NE-N	
Jackson County Fire District #4	In al. Elizon	11- E-01			
(21200 Crater Lake Hwy) - See Mitigation Successes	Jack_fir01			Х	

Source: <u>DOGAMI 2007</u>. <u>Open File Report 0-07-02</u>, <u>Statewide Seismic Needs Assessment Using Rapid Visual Assessment</u>. "\*" – Site ID is referenced on the <u>RVS Jackson County Map</u>

<sup>&</sup>lt;sup>5</sup> Ibid.

#### Earthquake (Crustal)

The steering committee determined that the City's probability for a crustal earthquake is **low** (which is the same as the County's rating) and that their vulnerability to crustal earthquake is **moderate** (which is higher than the County's rating). These ratings have not changed since the previous version of this NHMP.

Volume I, Section 3 describes the characteristics of earthquake hazards and their history, as well as the location, extent, and probability of a potential event. Generally, an event that affects the County is likely to affect Shady Cove as well. The causes and characteristics of an earthquake event are appropriately described within Volume I, Section 3, as well as the location and extent of potential hazards. Previous occurrences are well-documented within Volume I, Section 3 and the community impacts described by the County would generally be the same for Shady Cove as well.

Figure SA-4 shows the liquefaction risk to the community lifelines and historic structures that were identified in Table SA-4 as well as the state historic building inventory.

Liquefaction Susceptibility None Very Low Low Moderate High Very High Active Faults **Jurisdiction Boundaries** Urban Growth Boundary City Limits **Community Lifelines** School Police Station Fire Station City Office Red Cross Shelter Medical Center M Communication Structure Airport - Electric Transmission Lines

Figure SA-4 Liquefaction Susceptibility

Source: Oregon Partnership for Disaster Resilience. Oregon Department of Geology and Mineral Industries. Note: To view detail click this <u>link</u> to access Oregon HazVu.

Earthquake-induced damages are difficult to predict and depend on the size, type, and location of the earthquake, as well as site-specific building and soil characteristics. Presently, it is not possible to accurately forecast the location or size of earthquakes, but it is possible to predict the behavior of soil at any site. In many major earthquakes, damages have primarily been caused by the behavior of the soil.

#### **Vulnerability Assessment**

Due to insufficient data and resources, Shady Cove is currently unable to perform a quantitative risk assessment, or exposure analysis, for earthquake (Cascadia subduction zone and crustal) hazards. Identified community lifelines that are exposed to this hazard are shown in Table SA-4. Note that even if a facility has exposure, it does not mean there is a high risk (vulnerability). No development changes affected the jurisdiction's overall vulnerability to this hazard.

Please review Volume I, Section 2 for additional information on this hazard.

#### **Emerging Infectious Disease**

The steering committee determined that the City's probability for emerging infectious disease is **moderate** (which is the same as the County's rating) and that their vulnerability is **high** (which is the same than the County's rating). These ratings have not changed since the previous version of this NHMP.

Emerging infectious diseases are those that have recently appeared in a population or those whose incidence or geographic range is rapidly increasing or threatens to increase. Emerging infections may be caused by biological pathogens (e.g., virus, parasite, fungus, or bacterium) and may be: previously unknown or undetected biological pathogens, biological pathogens that have spread to new geographic areas or populations, previously known biological pathogens whose role in specific diseases was previously undetected, and biological pathogens whose incidence of disease was previously declining but whose incidence of disease has reappeared (re-emerging infectious disease).6

Volume I, Section 2 describes the characteristics of emerging infectious disease and their history, as well as the location, extent, and probability of a potential event within the region. Generally, an event that affects the County is likely to affect the City as well.

Please review Volume I, Section 2 for additional information on this hazard.

#### Flood

The steering committee determined that the City's probability for flood is **high** (which the same as the County's rating) and that their vulnerability to flood is **high** (which is higher than the County's rating). These ratings have not changed since the previous version of this NHMP.

<sup>&</sup>lt;sup>6</sup> Baylor College of Medicine, *Emerging Infectious Disease*, URL: <a href="https://www.bcm.edu/departments/molecular-virology-and-microbiology/emerging-infections-and-biodefense/emerging-infectious-diseases">https://www.bcm.edu/departments/molecular-virology-and-microbiology/emerging-infections-and-biodefense/emerging-infectious-diseases</a>, accessed September 17, 2017.



Volume I, Section 2 describes the characteristics of flood hazards and their history, as well as the location, extent, and probability of a potential event. Portions of Shady Cove have areas of floodplains (special flood hazard areas, SFHA) closely concentrated around the Rogue River (Figure SA-5). According to the Jackson County Flood Insurance Study (2018) the Rogue River is the chief source of flooding. Indian Creek may flood during exceptionally high water along the Rogue River. The Highway 62 bridge, which provides an essential connection between the natural resources to the north and east and the industries of the Rogue Valley to the south, was impacted by the 1964 floods. Furthermore, other portions of Shady Cove, outside of the mapped floodplains, are also subject to flooding from local storm water drainage.

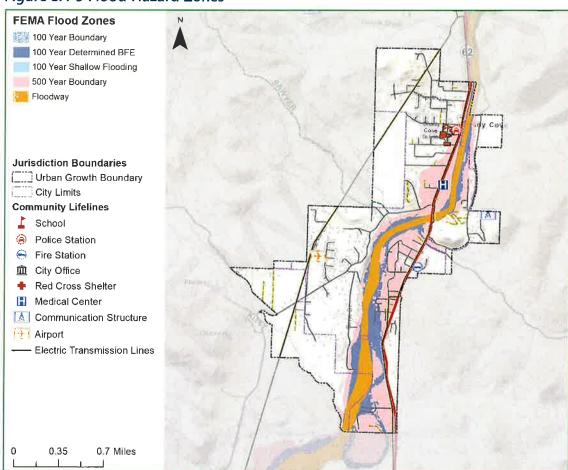


Figure SA-5 Flood Hazard Zones

Source: Oregon Partnership for Disaster Resilience. Oregon Department of Geology and Mineral Industries. Note: To view detail click this <u>link</u> to access Oregon HazVu.

The City is at risk from two types of flooding: riverine and urban. Riverine flooding occurs when streams overflow their banks and inundate low-lying areas. This is a natural process that adds sediment and nutrients to fertile floodplain areas. It usually results from prolonged periods of precipitation over a wide geographic area. Most areas are generally flooded by low velocity sheets of water. Urban flooding occurs as land is converted to impervious

surfaces and hydrologic systems are changed. Precipitation is collected and transmitted to streams at a much faster rate, causing floodwaters that rise rapidly and peak with violent force. During urban flooding, storm drains can back up and cause localized flooding of streets and basements.

The Rogue River is the chief source of flooding events in Shady Cove. Shady Cove is also at risk from flooding from failure of the Lost Creek Dam (also known as the William L. Jess Dam). The dam is owned and operated since 1977 by the US Army Corps of Engineers (USACE) and is classified as a high hazard potential dam. A worst-case scenario failure has the potential to have flows nearly 100 feet above normal river level within one hour of failure.7 These flooding events and subsequent damages are commonly caused by the Indian Creek and Long Branch Creek.

#### **Vulnerability Assessment**

Due to insufficient data and resources, Shady Cove is currently unable to perform a quantitative risk assessment, or exposure analysis, for this hazard. Identified community lifelines that are exposed to this hazard are shown in Table SA-4. Note that even if a facility has exposure, it does not mean there is a high risk (vulnerability). No development changes affected the jurisdiction's overall vulnerability to this hazard.

Floods can have a devastating impact on almost every aspect of the community, including private property damage, public infrastructure damage and economic loss from business interruption. It is important for the City to be aware of flooding impacts and assess its level of risk.

The economic losses due to business closures often total more than the initial property losses that result from flood events. Business owners and their employees are significantly impacted by flood events. Direct damages from flooding are the most common impacts, but indirect damages, such as diminished clientele, can be just as debilitating to a business. Following the January 1997, flood businesses in Shady Cove suffered direct damage from high water.

The Jackson County Flood Insurance Study (January 19, 2018) has a brief history of flooding in Jackson County and Shady Cove (Volume I, Section 3). No critical or essential facilities are in the floodplain. There is a central bridge located inside the floodplain (Highway 62 bridge, lost during the 1964 flood; however, the Lost Creek Dam was built after the 1964 flood, and now mitigates risk to this bridge).

Highway 62 is a major transportation route between Medford and smaller cities to the north of Jackson County. If major flooding affected all the bridges in Shady Cove, traffic flow in and out of the City would be significantly affected, but would not cut off all routes. The amount of property in the flood plain is not a large area (a portion of approximately 273 tax lots) but damage could be significant as it would affect residential, commercial, and public property. Floodwaters can affect building foundations, seep into basements or cause damage to the

Wright, Stacy, Identification of Areas of Mitigation Interest (AoMI) and Development of Mitigation Strategies for Shady Cove and Eagle Point, OR. 2016.

interior, exterior, and contents of buildings, dependent upon the velocity and depth of the water and by the presence of floating debris. The City sewer system can overflow during flood events and cause further property damage.

For mitigation planning purposes, it is important to recognize that flood risk for a community is not limited only to areas of mapped floodplains. Other portions of Shady Cove outside of the mapped floodplains may also be at relatively high risk from over bank flooding from streams too small to be mapped by FEMA or from local storm water drainage.

## **National Flood Insurance Program (NFIP)**

FEMA last updated the Flood Insurance Study (FIS) and Flood Insurance Rate Maps (FIRMs) in 2018 (effective January 19, 2018). Rogue River's Class Rating within the Community Rating System (CRS) is an 8. The City complies with the NFIP through enforcement of their flood damage prevention ordinance and their floodplain management program.

The Community Repetitive Loss record for Rogue River identifies two (2) Repetitive Loss Properties<sup>8</sup> (both single-family residences) and zero (0) Severe Repetitive Loss Properties.<sup>9</sup> Table SA-6 gives details for these properties. Figure SA-5 gives the general location of these properties.

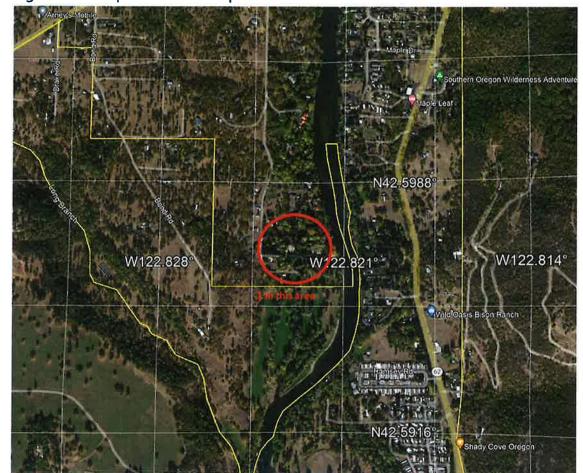
**Table SA-6 Repetitive Loss Properties** 

RL or SRL Property	Jurisdiction Name	Insured?	Flood Zone	Occupancy	Total Paid Claims	Total Paid Amount
RL	Shady Cove	YES	С	Single-Family	3	\$40,737.55
Total					3	\$40,737.55

Source: FEMA Region X, Regional Flood Insurance Liaison, email February 13, 2023.

<sup>&</sup>lt;sup>8</sup> A Repetitive Loss (RL) property is any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program (NFIP) within any rolling ten-year period, since 1978. A RL property may or may not be currently insured by the NFIP.

<sup>&</sup>lt;sup>9</sup> A Severe Repetitive Loss (SRL) property is a single family property (consisting of 1 to 4 residences) that is covered under flood insurance by the NFIP and has incurred flood-related damage for which 4 or more separate claims payments have been paid under flood insurance coverage, with the amount of each claim payment exceeding \$5,000 and with cumulative amount of such claims payments exceeding \$20,000; or for which at least 2 separate claims payments have been made with the cumulative amount of such claims exceeding the reported value of the property.



**Figure SA-6 Repetitive Loss Properties** 

Source: FEMA Region X, Regional Flood Insurance Liaison, email February 13, 2023.

Please review Volume I, Section 2 for additional information on this hazard.

# Landslide

The steering committee determined that the City's probability for landslide is **high** (which is the same as the County's rating) and that their vulnerability to landslide is **high** (which is higher than the County's rating). These ratings have not changed since the previous version of this NHMP.

Volume I, Section 2 describes the characteristics of landslide hazards and their history, as well as the location, extent, and probability of a potential event within the region. The potential for landslide in Shady Cove is high. Critical transportation routes into the City may be susceptible to landslides. The City is concerned about roads that are subsiding along Highway 62 south of the City.

Landslide susceptibility exposure for Shady Cove is shown in Figure SA-6. Most of Shady Cove demonstrates a low to moderate susceptibility to landslide exposure, with corridors of high

susceptibility. Approximately 13% of Shady Cove has high, and approximately 34% moderate, landslide susceptibility exposure. Note that even if a jurisdiction has a high percentage of area in a high or very high landslide exposure susceptibility zone, this does not mean there is a high risk, because risk is the intersection of hazard and assets.

Landslide Susceptibility Low Moderate High Very High **Jurisdiction Boundaries** Urban Growth Boundary City Limits **Community Lifelines** School Police Station Fire Station City Office Red Cross Shelter Medical Center A Communication Structure Airport Airport ---- Electric Transmission Lines 0.35 0.7 Miles

Figure SA-7 Landslide Susceptibility Exposure

Source: Oregon Partnership for Disaster Resilience. Oregon Department of Geology and Mineral Industries. Note: To view detail click this <u>link</u> to access Oregon HazVu.

## **Vulnerability Assessment**

Due to insufficient data and resources, Shady Cove is currently unable to perform a quantitative risk assessment, or exposure analysis, for this hazard. Identified community lifelines that are exposed to this hazard are shown in Table SA-4. No development changes affected the jurisdiction's overall vulnerability to this hazard.

Please review Volume I, Section 3 for additional information on this hazard.

<sup>&</sup>lt;sup>10</sup> DOGAMI Open-File Report, O-16-02, Landslide Susceptibility Overview Map of Oregon (2016)

### Severe Weather

Severe weather can account for a variety of intense and potentially damaging weather events. These events include extreme heat events, windstorms, and winter storms. The following section describes the unique probability and vulnerability of each identified weather hazard. Other more abrupt or irregular events such as hail are also described in this section.

#### **Extreme Heat Event**

The steering committee determined that the City's probability for extreme heat event is **high** (which is the same as the County's Rating) and that their vulnerability to an extreme heat event is **moderate** (which is the same as the County's Rating). This hazard was not assessed in the previous version of this NHMP.

Jackson County's NHMP Volume I, Section 2, adequately describes the causes and characteristics of extreme heat, as well as the history, location, extent, and probability of a potential event and how extreme heat relates to future climate projections. Generally, an event that affects the County is likely to affect the City as well. A severe heat episode or "heat wave" occurs about every two to three years, and typically lasting two to three days but can last as many as five days. A severe heat episode can be defined as consecutive days of temperatures in the high 90s and above 100. Severe heat hazard in Southern Oregon can be described as the average number of days with temperatures greater than or equal to 90-degrees Fahrenheit. <sup>11</sup>

Extreme heat events can and have occurred in the city, and while they typically do not cause loss of life, they are becoming more frequent and have the potential to impact economic activity as well as quality of life and have caused threat to life in some cases.

See the Risk Assessment (Volume I, Section 2) for additional information on this hazard.

## Windstorm

The steering committee determined that the City's probability for windstorm is **high** (which is the same as the County's rating) and that their vulnerability to windstorm is **moderate** (which is the same as the County's rating). The probability rating stayed the same and the vulnerability rating decreased since the previous version of this NHMP.

Volume I, Section 2 describes the characteristics of windstorm hazards and their history, as well as the location, extent, and probability of a potential event within the region. Because windstorms typically occur during winter months, they are sometimes accompanied by ice, freezing rain, flooding, and very rarely, snow. Other severe weather events that may accompany windstorms, including thunderstorms, hail, lightning strikes, and tornadoes are generally negligible for Shady Cove.

<sup>&</sup>lt;sup>11</sup> DLCD. Oregon State Natural Hazard Mitigation Plan. 2020.

Volume I, Section 2 describes the impacts caused by windstorms, including power outages, downed trees, heavy precipitation, building damages, and storm-related debris. Additionally, transportation and economic disruptions result as well.

Damage from high winds generally has resulted in downed utility lines and trees. Electrical power can be out anywhere from a few hours to several days. Outdoor signs have also suffered damage. If the high winds are accompanied by rain (which they often are), blowing leaves and debris clog drainage-ways, which in turn causes localized urban flooding.

Please review Volume I, Section 2 for additional information on this hazard.

## Winter Storm (Snow/Ice)

The steering committee determined that the City's probability for winter storm is **high** (which is the same as the County's rating) and that their vulnerability to winter storm is **high** (which is higher than as the County's rating). These ratings have not changed since the previous version of this NHMP.

Volume I, Section 3 describes the characteristics of winter storm hazards and their history, as well as the location, extent, and probability of a potential event within the region. Severe winter storms can consist of rain, freezing rain, ice, snow, cold temperatures, and wind. They originate from troughs of low pressure offshore that ride along the jet stream during fall, winter, and early spring months. Severe winter storms affecting the City typically originate in the Gulf of Alaska or in the central Pacific Ocean. These storms are most common from November through March.

Major winter storms can and have occurred in the Shady Cove area and while they typically do not cause significant damage, they are frequent and have the potential to impact economic activity. Road and rail closures due to winter weather are uncommon occurrences but can interrupt commuter and commercial traffic. The City maintains roads with sanding equipment and County snow plows.

Please review Volume I, Section 3 for additional information on this hazard.

## Volcanic Event

The steering committee determined that the City's probability for a volcanic event is **low** (which is the same as the County's rating) and that their vulnerability to a volcanic event is **low** (which is the same as the County's rating). These ratings have not changed since the previous version of this NHMP.

Volume I, Section 2 describes the characteristics of volcanic hazards and their history, as well as the location, extent, and probability of a potential event within the region. Generally, an event that affects the County is likely to affect Shady Cove as well. Shady Cove is very unlikely to experience anything more than volcanic ash during a volcanic event.

Please review Volume I, Section 2 for additional information on this hazard.



## Wildfire

The steering committee determined that the City's probability for wildfire is high (which is the same as the County's rating) and that their vulnerability to wildfire is high (which is higher than the County's rating). The probability and vulnerability ratings stayed the same since the previous version of this NHMP.

Volume I, Section 3 describes the characteristics of wildland fire hazards and their history, as well as the location, extent, and probability of a potential event within the region. The location and extent of a wildland fire vary depending on fuel, topography, and weather conditions. There has been one large wildland fire in the Shady Cove area, the South Obenchain Fire in 2020. The South Obenchain Fire, a 32,600-acre fire, spread from Eagle Point to Shady Cove and Butte Falls. The fire destroyed 33 residences and 56 other structures. Weather and urbanization conditions are primarily at cause for the hazard level. Wildfires threaten subdivisions and mobile home parks on the edge of the City.

The potential community impacts and vulnerabilities described in Volume I, Section 3 are generally accurate for the City as well. The Rogue Valley Integrated Community Wildfire Protection Plan (RVIFP, updated 2017), assesses wildfire risk, maps wildland urban interface areas, and includes actions to mitigate wildfire risk. The City is included in the RVIFP and will update the City's wildfire risk assessment if the fire plan presents better data during future updates (an action item is included within Volume I, Section 4 to participate in updates to the integrated fire plan and to continue to maintain and update their RVIFP). Shady Cove is within an area of high wildfire prone urban landscape. Current wildfire mitigation activities include defensible space and fuels reduction projects. The City hereby incorporates the RVIFP into this addendum by reference to provide greater detail to sensitivity and exposure to the wildfire hazard.

Property can be damaged or destroyed with one fire as structures, vegetation, and other flammables easily merge to become unpredictable and hard to manage. Other factors that affect ability to effectively respond to a wildfire include access to the location and to water, response time from the fire station, availability of personnel and equipment, and weather (e.g., heat, low humidity, high winds, and drought).

Figure SA-7 show burn probability in Shady Cove for community lifelines and historic buildings.

**Burn probability** Urban Very Low Low Low Moderate Moderate High Moderate High Very High **Jurisdiction Boundaries** Urban Growth Boundary City Limits **Community Lifelines** School Police Station Fire Station City Office Red Cross Shelter Medical Center A Communication Structure Airport - Electric Transmission Lines 0.35 0.7 Miles

Figure SA-8 Burn Probability

Source: Oregon Partnership for Disaster Resilience. USFS Pacific Northwest Region Wildfire Risk Assessment (PNRA) Note: To view detail click this <u>link</u> to access Oregon Explorer's CWPP Planning Tool.

## **Vulnerability Assessment**

Due to insufficient data and resources, Shady Cove is currently unable to perform a quantitative risk assessment, or exposure analysis, for this hazard. Identified community lifelines that are exposed to this hazard are shown in Table SA-4. Note that even if a facility has exposure, it does not mean there is a high risk (vulnerability). No development changes affected the jurisdiction's overall vulnerability to this hazard.

Please review Volume I, Section 3 for additional information on this hazard.

# Attachment A: Public Involvement Summary

Members of the steering committee provided edits and updates to the NHMP prior to the public review period as reflected in the final document. In addition, a survey was distributed that included responses from residents of Shady Cove (Volume III, Appendix F).

To provide the public information regarding the draft NHMP addendum, and provide an opportunity for comment, an announcement (see below) was provided from Month Day through Month Day on the City's website. There were XX [to be updated following public comment period] comments provided. Additional opportunities for stakeholders and the public to be involved in the planning process are addressed in Volume III, Appendix B.

# **Website Posting**

Posting to be inserted

# **Shady Cove Steering Committee**

Steering committee members possessed familiarity with the community of Shady Cove and how it is affected by natural hazard events. The steering committee guided the update process through several steps including goal confirmation and prioritization, action item review and development, and information sharing, to update the NHMP and to make the NHMP as comprehensive as possible. The steering committee met formally on the following date:

## Meeting #1: Shady Cove steering committee, May 3, 2023 (via Zoom)

During this meeting, the steering committee reviewed the previous NHMP, and were provided updates on hazard mitigation planning, the NHMP update process, and project timeline. The steering committee:

- Updated recent history of hazard events in the city.
- Reviewed and confirmed the NHMP's mission and goals.
- Discussed the NHMP public outreach strategy.
- Discussed development changes and community lifelines.
- Reviewed and provided feedback on the draft risk assessment update including community vulnerabilities and hazard information.
- Reviewed and updated their existing mitigation strategy (actions).
- Reviewed and updated their implementation and maintenance program.

## **Meeting Attendees:**

- Convener, Tom Corrigan, City Administrator
- Kathy Nuckles, Council President
- Greg Winfrey, Chief (retired) Jackson County Fire District #4
- Ed Mayer, Emergency Management Consultant
- Spencer McMahon, Public Works
- Rowan Fairchild, Planner (RVCOG)



## **AGENDA**

Meeting:

Jackson County NHMP Update: Shady Cove Addendum

Date:

Time:

5/3/23 2:00pm - 3:30pm

Location:

Zoom (link here)

#### **Meeting Goals:**

- To share information that the student team needs to draft jurisdictional addenda, namely:
  - o To review and update Shady Cove's hazard vulnerability assessment
  - o To review and update Shady Cove's action items
- Welcome and Introductions
- **Development Information and Community Lifelines** 
  - a. Development information (if not already provided)
  - b. Review Community Lifelines for any missed facilities
- Jurisdiction-Specific Risk Assessment
  - a. Review Shady Cove-specific Hazard Vulnerability Assessment (HVA)
- Jurisdiction-Specific Mitigation Strategy
  - a. Update action items
  - b. Prioritize action items
- Overview of Implementation and Maintenance
- VI. **Next Steps** 
  - a. We will send your jurisdiction's addendum to you for your review and give you two weeks to review the addendum and provide us with any edits

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# Attachment B: Action Item Changes

Volume I, Section 3 provides a summary list of actions for the City. Below is an accounting of the major changes to actions since the previous NHMP.

### Renumbered 2017 Actions:

2017 Action Item	2023 Action Item
Multi-Hazard #1	Multi-Hazard 1.2
Multi-Hazard #2	Multi-Hazard 1.3
Earthquake #1	Earthquake 4.1
Flood #1	Flood 6.1
Flood #2	Flood 6.2
Flood #3	Flood 6.3
Flood #5	Flood 6.5
Flood #6	Flood 6.6
Severe Weather #1	Severe Weather 8.1
Severe Weather #2	Severe Weather 8.2
Wildfire #1	Wildfire 10.1
Wildfire #2	Wildfire 10.2
Wildfire #3	Wildfire 10.3
Wildfire #4	Wildfire 10.4
Wildfire #5	Wildfire 10.5

## **Previous NHMP Actions Completed:**

• (2017) FL #4

# **New NHMP Actions:**

The following actions were added to the 2023 NHMP:

- Multi-Hazard 1.1
- Air Quality 2.1
- Flood 6.4
- Severe Weather 8.3

Action items were reviewed, revised, and prioritized (indicated in **bold** text). Major changes are indicated below:

- MH #1: This action is ongoing.
- MH #2: This action is ongoing.

- EQ #1: This action is ongoing and was reworded for clarity.
- FL #1: This action is ongoing.
- FL #2: This action is ongoing and is reworded for clarity.
- FL# 3: This action is ongoing.
- FL #4: This action is completed.
- FL #5: This action is ongoing and was reworded for clarity.
- FL #6: This action is ongoing.
- SW #1: This action is ongoing and was reworded for specificity.
- SW #2: This action is ongoing and was reworded for clarity.
- WF #1: This action is ongoing and was reworded for clarity.
- WF #2: This action is ongoing.
- WF #3: This action is ongoing.
- WF #4: This action is ongoing.
- WF #5: This action is ongoing.