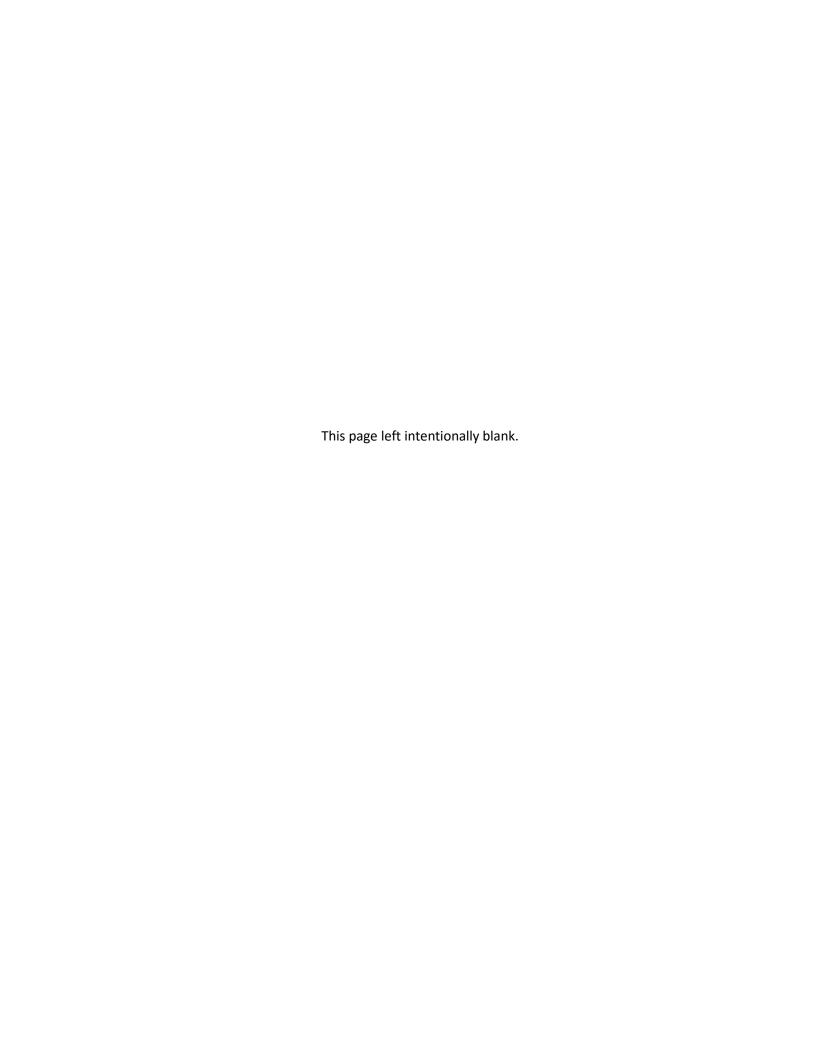
Appendix A: Action Items



APPENDIX A-I: PRIORITY ACTION ITEMS

Table A-1 lists priority actions for the 2017 Salem Natural Hazard Mitigation Plan.

The action item forms that follow Table A-1 present specific information for each action item. Additional action items and forms are located within Appendix A-2: Action Item Pool.

Table A-I High Priority NHMP Actions

Action Item ID	Mitigation Action Item
Priority A	Actions
Multi-Ha	zard
MH #1	Identify and Designate Priority Transportation Routes.
Earthqua	ke
EQ #1	Develop an inventory of un-reinforced masonry structures and develop appropriate mitigation action items to reduce the impacts of seismic events.
EQ #2	Identify, inventory, and mitigate (as prioritization and resources allow) critical facilities and utilities that require seismic retrofit (consider structural and non-structural retrofit options).
EQ #3	Create a bridge prioritization inventory based on major lifeline routes including state highways, routes, and major road arteries.
EQ #4	Collaborate with SEDCOR to develop relevant public-private partnerships with businesses that can contribute to mitigation, response, and recovery.

Source: Salem NHMP Steering Committee (2017)

Priority Action Item Forms

Action Item: Mul	ti-Haz	ard #1		Alignment with Plan Goals:		
				⊠ Goal 1	Goal 4	
Identify and Designate	Priority Transportatio		n Routes	⊠ Goal 2	Goal 5	
				⊠ Goal 3	•	
Alignment with Existing	ng Plans	/Policies:			1	
Transportation System	n Plan (2	2016)				
Rationale for Propose	d Actio	n Item:				
designate priority tran	In order to focus limited analysis, assessment and mitigation project resources, the city can designate priority transportation routes. This will ensure that when investments are made, they are prioritized to those routes that will be most important to post event response and recovery efforts. The Salem TSP lists arterials as critical routes.					
Ideas for Implementa	tion:					
Develop a "hub and spoke" approach to priority route planning focused on post-event resource collection and distribution.						
Coordinating Organiza	ation:	Public Works				
Internal Partners:			External Partners:			
Emergency Management			ODOT			
Potential Funding Sources:			Estimated cost:	Timeline:		
Local Funding Resources				Ongoing		
			TBD		m (0-2 years)	
				Mid-Tern	າ (3-5 years)	
	I				n (5+ years)	
Form Submitted by:		Natural Hazard	ds Mitigation Com	mittee (2017)		
Action Item Status: New						

Action Item: Fart	Action Item: Earthquake #1 Alignment with Plan Goals:					
Action item. Lait	<u>iiquak</u>	C mI		Goal 1	Goal 4	
Develop an inventory of un-reinforced maso			•	—	ł <u> </u>	
and develop appropriate mitigation action it			ems to reduce	Goal 2	Goal 5	
the impacts of seismic	events.			Goal 3		
Alignment with Existing	ng Plans	/Policies:				
Rationale for Propose	d Action	ltem:				
 Salem has numerous un-reinforced masonry structures in their downtown. Un-reinforced masonry structures are particularly susceptible to earthquakes, and if damaged, can disrupt businesses located in historic downtown buildings. Inventorying un-reinforced masonry structures and developing action items to address these buildings will help reduce the vulnerability to seismic events. The Salem Natural Hazards Mitigation Committee identified seismic events as having a high probability of recurrence and a high vulnerability in Salem. Addressing the most vulnerable buildings first, those made of un-reinforced masonry, will reduce the city's vulnerability to seismic events. The Disaster Mitigation Act of 2000 requires communities to identify actions and projects that reduce the effects of hazards on the community, particularly to buildings and infrastructure [201.6(c)(3)(ii)]. Inventorying un-reinforced masonry structures will identify the major issues surrounding these buildings and what appropriate mitigation measures should be used to address these issues. In addition, protecting existing buildings and infrastructure will help 						
reduce the negative impact of a seismic event on the community. Ideas for Implementation:						
 Identify critical facilities constructed of un-reinforced masonry and develop appropriate mitigation action items or consider relocating the facility to a new building. Seek funding to develop programs to retrofit un-reinforced masonry buildings and provide outreach on seismic hazards. 						
Coordinating Organiza	ation:	Community [Development Dep	artment		
Internal Partners:			External Partne	rs:		
Urban Development, Public Works, Fire FEMA, DOGAMI						
Potential Funding Sources:			Estimated cost:	Timeline:		
Local Funding Resources			TBD	Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)	
Form Submitted by:	Salem	Natural Hazar	ds Mitigation Com	nmittee		
Action Item Status:	us: Ongoing revised from 2012 version of the NHMP					

Action Item: Earthquake #2				Alignment with F	Plan Goals:		
Identify, inventory, an	d mitiga	ite (as prioritiz	ation and	Goal 1	Goal 4		
resources allow) critical				Goal 2	Goal 5		
seismic retrofit (consid	der stru	ctural and non-	-structural	Goal 3			
retrofit options).	a Dlane	/Dolisios		☑ Goal 3			
Alignment with Existin	ig Plans	S/Policies:					
	Rationale for Proposed Action Item:						
The Salem Natural							
high vulnerability			•	ng these facilities v	will significantly		
reduce their vulne			•	ant program to co	vienni e allu		
Oregon Senate Bill rehabilitate critical	-	=			ies early will assist		
communities in ob	•		ideting an invento	ry or critical facilit	ics carry will assist		
The Disaster Mitig	_	•	ires communities	to identify compre	ehensive actions		
-		•		· ·	ing existing critical		
facilities, including				•	-		
seismic events.							
 The Department o 							
Assessment comp			_	•			
identified 53 struc		_		•	•		
earthquake. facilit					od of collapse		
should an earthquake occur. (See Section 2 for a list of retrofitted facilities) Ideas for Implementation:							
•							
buildings vulnerab			_		•		
vulnerable reservo							
• Coordinate with O	EM and	FEMA to dete	rmine funding for	conducting seism	ic retrofit of		
buildings.		1					
Coordinating Organiza	ation:	Emergency M	lanagement				
Internal Partners:			External Partner	rs:			
Natural Hazards Mitiga							
Community Developm	ent Dep	partment,	FEMA, OEM, DO	GAMI, School Dist	ricts		
Public Works Patential Funding Courses Fatimeted costs Timelines							
Potential Funding Sou	rces:		Estimated cost:	Timeline:			
				☐ Ongoing			
HMGP, PDM, Local Funding Resources,			TBD	Short Ter	m (0-2 years)		
SRGP			155	☐ Mid-Term	n (3-5 years)		
			Long-Tern	n (5+ years)			
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com		· · · · ·		
Action Item Status: Ongoing, revised from 2012 version of the NHMP							

Action Item: Eart	hquake #3		Alignment with F	Plan Goals:	
Create a bridge priorit lifeline routes includin road arteries.	•	~	☐ Goal 1 ☐ Goal 2 ☐ Goal 3	Goal 4	
Alignment with Existing	ng Plans/Policies:				
Salem EOP, TSP; Mario					
Rationale for Propose	ed Action Item:				
Salem does not currently have a bridge prioritization list that is tied to major lifeline routes.					
Ideas for Implementa	tion:				
Work with Transportation lifeline sector representatives to identify the lifeline routes. Establish bridge prioritization list based on those routes.					
Coordinating Organiza	ation: Public Works	s/ GIS			
Internal Partners:		External Partners:			
Emergency Managem	ent	ODOT			
Potential Funding Sou	ırces:	Estimated cost:	Timeline:		
Local Funding Resourc	ces	Less than \$10,00	∑ Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)	
Form Submitted by:	Salem Natural Hazar	ds Mitigation Comi	nittee (2017)		
Action Item Status:	New				

Action Item: Earthquake #4		Alignment with I	Plan Goals:		
Collaborate with SEDCOR to develop rele	evant public-private	Goal 1	Goal 4		
partnerships with businesses that can co		Goal 2	Goal 5		
mitigation, response, and recovery.		☑ Goal 3			
Alignment with Existing Plans/Policies:					
Community Economic Development Stra	tegy				
Rationale for Proposed Action Item:					
Government cannot do everything. Engaging the private sector is critical to success.					
Ideas for Implementation:					
Continue the innovative and successful collaboration with SEDCOR to engage local business.					
Coordinating Organization: Emergence	cy Management				
Internal Partners:	External Partne	rs:			
Urban Development	Regional Solutio Governments, U	Marion County Emergency Management, SEDCOR, Regional Solutions, Mid-Willamette Valley Council of Governments, UO Economic Development Administration University Center			
Potential Funding Sources:	Estimated cost:	Timeline:			
Economic Development Administration, Hazard Mitigation Grant Program, Gener Fund, Business Oregon	al TBD	Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)		
Form Submitted by: Salem Natural Ha	zards Mitigation Com	nmittee (2017)			
Action Item Status: New					

Table A-2 and the subsequent action item forms, are the complete list of non-priority actions for the 2017 Salem NHMP.

Table A-2 Action Item Pool

Action	Anne de la
Item ID	Mitigation Action Item
Action Ite	em Pool
Multi-Ha	zard
MH #2	Coordinate with the Capitol Planning Commission to integrate natural hazard mitigation into State and City respective capital improvements.
MH #3	Develop an inventory of the number and type of critical facilities within the community that are at reasonable risk for each hazard type.
MH #4	Develop public outreach materials for all natural hazard risks addressed in the Salem Natural Hazards Mitigation Plan. Materials should include mitigation actions residents and businesses can implement to reduce their risk to natural hazards, and where they can obtain more detailed natural hazard information.
MH #5	Include a post-disaster recovery and mitigation annex/appendix in the Salem Emergency Operations Plan that encourages property owners to incorporate retrofitting and mitigation measures in recovery efforts.
MH #6	Ensure Unified Development Code (UDC) updates consider specific hazards when updating the Salem code for mitigating the location of future development in identified/mapped high hazard areas.
MH #7	Strengthen or replace unsafe public structures (especially facilities critical to disaster and post-disaster planning/response).
MH #8	Continue developing alert and warning systems to notify residents of incidents involving natural hazards and hazardous materials.
MH #9	Enhance hazard resistant construction methods (wind, winter storm, landslide, 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.
MH #10	Integrate the Mitigation Plan findings into planning and regulatory documents and programs including the Comprehensive Plan (particularly Goal 7).
MH #11	Participate in assessments of the short and long term needs for sheltering access and functional needs populations for all hazards.
Drought	
DR #1	Complete and implement the North Santiam Drought Contingency Plan.
Earthqua	ke
EQ #5	Partner with the school districts to help identify and prioritize seismic retrofits to school district facilities.

Source: Salem NHMP Steering Committee (2017)

Table A-3 Action Item Pool (Continued)

Action Item ID	Mitigation Action Item
Action Ite	em Pool
Extreme	Heat
EH #1	No specific action item developed for this hazard. See multi-hazard actions for applicable mitigation strategies.
Flood	
FL#1	Update, maintain, and implement flood actions via a floodplain management plan in accordance with FEMA's Community Rating System guidelines.
FL #2	Improve the City of Salem's National Flood Insurance Program (NFIP) Community Rating System (CRS) rating in order to reduce flood risk and NFIP premiums.
Landslide	
LS #1	Map areas of landslide risk adjacent to the North Santiam River (upstream of the Geren Island water intake structures) and areas impacted by a catastrophic failure of the Detroit or Big Cliff Dams.
LS #2	Update landslide overlay maps using Light Detection and Ranging (LIDAR) data.
LS #3	Utilize the updated regional landslide risk maps (DOGAMI O-16-02) to identify hazard areas and collaborate with the Oregon Department of Geology and Mineral Industries to work on landslide risk reduction efforts; determine areas and buildings at risk to landslides and propose Comprehensive Plan and land use policies accordingly.
Volcano	
VE #1	No specific action item developed for this hazard. See multi-hazard actions for applicable mitigation strategies.
Windsto	m
WD #1	Partner with public and private utilities to educate the public about hazardous trees and the damage they can cause in the event of a windstorm.
Winter S	torm
WT #1	Partner with public and private utilities to educate the public about hazardous trees and the damage they can cause in the event of a winter storm.
Wildfire	
WF #1	Conduct wildfire prevention outreach, as outlined in the Marion County and Polk County (West Salem) Community Wildfire Protection Plans (CWPPs), to residents near the wildland-urban interface.
Hazardou	s Materials Incident
HM #1	Map facilities that handle or contain hazardous materials, rank them based on their level of risk, and refine response strategies for each situation in the event of an accident.
	NUMBER Character Course than (2017)

Source: Salem NHMP Steering Committee (2017)

Astion Hone, Mul	Action Item: Multi-Hazard #2 Alignment with Plan Goals:						
Action Item: Mul	ti-Hazard #2				I		
Coordinate with the C	apitol Planning	Commis	sion to	Goal 1	Goal 4		
integrate natural haza	•			Goal 2	Goal 5		
respective capital imp	_		,	Goal 3			
Alignment with Existing	ng Plans / Polisis			⊠ doai 3			
Alignment with existing	ig Platis/Policie	:5:					
Rationale for Proposed Action Item:							
•							
the State of Oregon							
responsibility rests v	with the Salem Pu	ıblic Wor	ks Department in	the development an	d implementation		
of the City's Capital	-						
It is important that r							
Improvement Progra to function during a							
service by strengthe							
recovering from a na							
The Disaster Mitigat	ion Act of 2000 r	equires c	communities to ma	intain the Hazard M	litigation Plan by		
having local governr	-						
mechanisms [201.6(_			· ·		
local governments in							
Coordination will als planning process.	so reduce duplica	tion of p	iailillig ellorts, str	engthening the over	an miligation		
	Ideas for Implementation:						
Determine what roles the Capitol Planning Commission plays in mitigating natural hazards,							
	especially for State of Oregon properties or others in Salem for which it has jurisdiction.						
Review action iten	- 1	-					
Programs for Saler	m.						
 Inventory critical f 	acilities that ma	ay be po	tentially vulneral	ble to a natural dis	saster and present		
these to the Capit	ol Planning Com	nmission	for their review	•			
 Include members 		_			•		
 Realign or replace 							
replacement to re				•			
Explore the possib	ility of under gr	ounding	g utilities that are	e vulnerable to sev	ere weather.		
Coordinating Organiza	ation: Comm	unity De	evelopment Depa	artment			
Internal Partners:			External Partner	rs:			
Natural Hazard Mitigation Committee			FEMA, OEM, Capitol Planning Commission				
Potential Funding Sou	irces:		Estimated cost:	Timeline:			
				□ Ongoing			
				Short Ter	m (0-2 years)		
Local Funding Resources			TBD		•		
					n (3-5 years)		
	Long-Term (5+ years)						
Form Submitted by:	Salem Natural	Hazards	s Mitigation Com	mittee			
Action Item Status:	Ongoing, revised from 2012 version of the NHMP						

Action Item: Multi-Hazard #3 Alignment with Plan Goals:							
Action Item: Mul	ti-Hazard #3		_	I			
Develop an inventory	of the number and typ	e of critical	Goal 1	Goal 4			
facilities within the co			⊠ Goal 2	Goal 5			
for each hazard type.			Goal 3				
Alignment with Existin	ng Plans/Policies:						
Emergency Operations	_	Plan					
Rationale for Propose							
-	ercial buildings in Sale	m are vulnerable	to damage in the	event of a natural			
•	d have significant impa		-				
buildings that are	susceptible to a natura	al disaster will red	uce the vulnerabil	ity of the			
_	ent of a natural disast	er and improve th	e resiliency of Sale	em's local			
economy.							
	or local mitigation plan			* *			
	in the community at ris						
	l facilities (hospitals, fi Trastructure (e.g., road		-				
	ss properties (extent o			•			
	potential mitigation ac	_	-	hoperty damage,			
-	ation Act of 2000 requ		-	and projects that			
_	of hazards on the con		•	• •			
	nventorying important						
vulnerability to na	vulnerability to natural hazards will help to develop mitigation actions that reduce Salem's						
	overall vulnerability to natural hazards.						
Ideas for Implementation:							
	abilities of community						
	te mitigation measure	s to help preserve	e structures within	the community			
that are at risk for	• •						
	nic data base which illu the community that ar		=	and type or			
	t cultural and historic r		* *	register or not			
	fadditional protection.		on the national i	egister or not,			
Coordinating Organiza	·						
Internal Partners:	<u> </u>	External Partne	rs:				
Natural Hazards Mitiga	ation Committee,	FEMA					
GIS, IT							
Potential Funding Sou	irces:	Estimated cost:	Timeline:				
			Ongoing				
			Short Ter	m (0-2 years)			
Local Funding Resourc	ces	TBD	☐ Mid-Term	n (3-5 years)			
Form Submitted by	Salom Natural Hazare	ds Mitigation Com		n (5+ years)			
Form Submitted by:	Salem Natural Hazards Mitigation Committee Retained, from 2012 version of the NHMP						

Action Item: Multi-Haz	ard #4		Alignment with F	Plan Goals:		
Develop public outreach mate	erials for all nat	ural hazard	Goal 1	Goal 4		
risks addressed in the Salem I	isks addressed in the Salem Natural Hazards Mitigation					
Plan. Materials should includ	Plan. Materials should include mitigation actions resid			Goal 5		
and businesses can implemen	nt to reduce the	eir risk to				
natural hazards, and where th	ney can obtain i	more detailed	Goal 3			
natural hazard information.						
Alignment with Existing Plans	s/Policies:					
Rationale for Proposed Actio	n Item:					
 Conducting public outrea 				•		
illustrate what residents a						
their properties, thereby	-	-				
 Several natural hazards, s 				•		
for disrupting transportat		_				
needs. Salem residents ne				·		
what actions they can tak	_					
 The Disaster Mitigation A 						
and projects that reduce	the effects of a	hazard on the cor	nmunity [201.6(c)	(3)(ii)].		
Ideas for Implementation:						
-	30 mars para 2 mars 2 m					
instructing residents and		ut the risks natura	il hazards pose an	d mitigation		
actions they can impleme						
	Coordinate with other groups conducting other emergency management activities to assist in					
	conducting public outreach campaigns, developing emergency kits, and educating residents					
and businesses about oth				d		
Develop handouts that in						
mitigation actions that ca information.	n be impiemen	ted, and where cit	tizens can obtain t	urtner		
	i a mal vyahaita v	la awa waaidawta aw	مرم محمد مناهد	ha aduaatad		
 Create an online informat about appropriate mitigat 						
impact of natural hazards		idents and busines	sses can impleme	iit to reduce the		
 Work with local real estat 		tions to propare in	aformational hand	louts advising		
property owners of natur				~		
reduce their risk of expos		in their area and n	icasares tricy carr	implement to		
		10000000				
Coordinating Organization:	Emergency M	_				
Internal Partners:		External Partner				
Community Development De	partment,		ate Police, OMD-			
Public Works Emergency Management, DOGAMI, DLCD						
Potential Funding Sources:		Estimated cost:	Timeline:			
			□ Ongoing			
Local Funding Resources, FEM		Short Ter	m (0-2 years)			
DOGAMI		TBD		n (3-5 years)		
 						
		lLong-Tern	n (5+ years)			

Form Submitted by:	Salem Natural Hazards Mitigation Committee
Action Item Status:	Ongoing, from 2012 version of the NHMP

Action Item: Mul	ti-Haz	ard #5		Alignment with I	Alignment with Plan Goals:	
-	Include a post-disaster recovery and mitigation				Goal 4	
annex/appendix in the				⊠ Goal 2	Goal 5	
that encourages proper and mitigation measure	•	•	~	☐ Goal 3		
Alignment with Existing				Z Godi 5		
Emergency Operations Plan						
Rationale for Propose	Rationale for Proposed Action Item:					
Disaster response			onent to natural h	azards planning th	nat can save lives	
and property duri	_		_	·		
mitigation plan wi						
	•				nents may become	
available through allowed the comm			· ·		_	
aftermath of a disa	•	o identity certa	iii iieeus iii auvaii	ce, saving critical t	inte in the	
The Disaster Mitig		ct of 2000 requ	ires communities	to develop action	s that reduce the	
impact of a natura		•		·		
retrofitting will inc		alem's ability t	o recover from a	natural disaster.		
Ideas for Implementa	tion:					
Seek guidance from	m FFM/	and the Orego	on Office of Emer	gency Managemer	nt on how to	
incorporate recov				_		
Periodically updat		_				
the Salem Emerge	ncy Ope	erations Plan				
Coordinating Organiza	ation:	Emergency N	lanagement			
Internal Partners:			External Partne			
Natural Hazards Mitiga	ation Co	ommittee	FEMA, Oregon State Police, OMD-Office of			
			Emergency Man			
Potential Funding Sou	rces:		Estimated cost:	Timeline: Ongoing		
					(0.0	
Local Funding Resourc	es		TBD		m (0-2 years)	
Local Fallania nesources				Mid-Tern	n (3-5 years)	
				Long-Tern	n (5+ years)	
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com	mittee		
Action Item Status:	tatus: Deferred, from 2012 version of the NHMP					

Action Item: Mul	ti-Haz	ard #6		Alignment with I	Plan Goals:	
Ensure Unified Develo	•			Goal 1	Goal 4	
specific hazards when	•	-		Goal 2	Goal 5	
mitigating the location		-	nt in			
identified/mapped hig				Goal 3		
Alignment with Existing	ng Plans	S/Policies:				
Rationale for Proposed Action Item:						
 Goal 7 of Oregon's Land Use Planning Goals requires that local governments "adopt or 						
amend, as necessa	•			•	~	
measures[that p	_	_		•		
facilities and speci	-	-		ne state building co	ode (ORS	
455.447(1) (a)(b)(d	-			ration of a second		
 The Disaster Mitig reduce the effects 		•		•		
move future devel			, -			
of new developme	•		и/парреи пазат	is areas will reduct	e the vullerability	
Ideas for Implementa		<u> </u>				
Tacas tot imprementa						
 Consider transferr 	ing devi	elonment right	s from high hazarı	d areas to safer ar	eas esnecially in	
those areas where	•		•		cas, especially in	
 Address high haza 				_	of future	
development in th						
11 11		0 · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Coordinating Organiza	ation:	Community D	evelopment			
Internal Partners:			External Partner	rs:		
Natural Hazards Mitiga	ation Co	mmittee	DLCD, FEMA			
Potential Funding Sou	irces:		Estimated cost:	Timeline:		
Local Funding Resourc	es DIC	D Technical		Short Ter	m (0-2 years)	
Assistance Grant	.03, DEC	D reeninear	TBD		n (3-5 years)	
Forms Cubusitted b	Colore	Notural Hazza	de Mitigation Com		n (5+ years)	
Form Submitted by:			ds Mitigation Com			
Action Item Status: Ongoing, revised from 2012 version of the NHMP						

Action Item: Mul	ti-Hazard #7		Alignment with Plan Goals:					
Strengthen or replace	unsafe public structur	es (especially	⊠ Goal 1	Goal 4				
facilities critical to disa	-		⊠ Goal 2	Goal 5				
response).			Goal 3					
Alignment with Existin	ng Plans/Policies:			1				
Rationale for Propose	d Action Item:							
 The Disaster Mitigation Act of 2000 requires communities to assess their vulnerability to natural hazards, particularly by identifying the types and number of buildings, infrastructure, and critical facilities that could be affected. It is important that critical facilities function during and after disasters. Strengthening all essential facilities will improve recovery capacity and reduce risk and loss of life. Retrofitting of vital infrastructure, such as schools and community buildings, provides important improvements that reduce hazard exposure and the cost and time associated with recovery. 								
Ideas for Implementa	tion:							
 Develop formal agreements with internal and external partners who could assist the partners in collaborating and sharing the responsibility of natural hazard mitigation. Such actions to form collaborative partnerships and commitments to mitigation can assist the City in reducing its risk to the natural hazards addressed by the Natural Hazards Mitigation Plan. Conduct structural and non-structural retrofits of critical facilities to reduce the impacts of a natural hazard. Conduct a cost-benefit analysis to assess whether the cost of mitigation improvements to critical facilities balance with the benefits to be gained. Create proposals to reinforce buildings so they can withstand an earthquake and thereby reduce vulnerability risks; ORS 455.447 regulates vulnerable building retrofits. 								
Coordinating Organiza	ation: Public Works							
Internal Partners:		External Partners:						
Fire Department, Polic Community Developm Development, Adminis	ent, Urban	FEMA, ODOT						
Potential Funding Sou	irces:	Estimated cost:	Timeline:					
FMA, HMGP, PDM, SRGP, Local Funding Resources,		TBD		m (0-2 years) n (3-5 years) n (5+ years)				
Form Submitted by:	Salem Natural Hazard	ds Mitigation Com	mittee					
Action Item Status:	Status: Retain, revised from 2012 version of the NHMP							

A ations the same B.C. I	L: 11-	d #C		Alimone of the	Nam Caale
Action Item: Mul	ti-Haz	ara #8		Alignment with I	<u> </u>
Continue developing a	lert and	d warning syste	ems to notify	Goal 1	Goal 4
residents of incidents	involvin	g natural haza	rds and	Goal 2	Goal 5
hazardous materials.				⊠ Goal 3	
Alignment with Existin	ng Plans	s/Policies:		•	1
Rationale for Propose			life and a comple		
 Alert and warning natural or manma 					
unannounced, put					
risk of exposure to	• .	•		• .	
lives and property					
Alert and warning	system	have significar	nt relevance to ha	zardous materials	accidents.
Hazardous materia					•
major transportat		_	_	_	•
contain hazardous				• • • • • • • • • • • • • • • • • • • •	_
travels over these					
addition, the heav cars of hazardous	•		•	• •	•
on any of the above		•	•		
the city and the st			•	• •	•
I-5 corridor. Alert	_		•		_
and help to save li				G	0
Ideas for Implementa	tion:				
Continue to enforce	ce the S	alem Fire Prev	ention Code to re	gulate hazardous r	naterials.
Develop strategies		_			•
natural hazard and			_		
 Continue to develonate to development 	•	•		residents and bus	sinesses of natural
Develop improved				ural hazard events	and hazardous
materials.					
Coordinating Organiza	ation:	Emergency N	lanagement		
Internal Partners:		•	External Partne	rs:	
Public Works, Police D	•	ent, GIS and	ODOT, FEMA, O	SHA	
Mapping Departments					
Potential Funding Sou	rces:		Estimated cost:	Timeline:	
				□ Ongoing	
FEMA Local Funding F) o cource	25	TBD	Short Ter	m (0-2 years)
FEMA, Local Funding F	resourci	25	טפו	☐ Mid-Term	n (3-5 years)
				Long-Tern	n (5+ years)
Form Submitted by:	Salem	Natural Hazard	ı ds Mitigation Com		100.01
Action Item Status:		Ongoing from 2012 version of the NHMP			

Action Item: Mul	ti-Hazard #9		Alignment with I	Plan Goals:			
Enhance hazard resist		ods (wind		<u> </u>			
winter storm, landslid		· · · · · · · · · · · · · · · · · · ·	Goal 1	Goal 4			
damage to utilities and			⊠ Goal 2	Goal 5			
accomplished by enco	·	•	⊠ Goal 3				
convert existing overh	nead lines to undergro	und lines.	☑ doai 3				
Alignment with Existing	Alignment with Existing Plans/Policies:						
Transportation Plan, C	Community Wildfire Pr	rotection Plans (Ma	arion and Polk)				
Rationale for Propose	ed Action Item:						
Downed power lines r	esult in power failure	s and block critical	transportation rou	utes. The loss of			
electric power for a lo				•			
critical systems includ	-						
transportation, and ot	•	•		• ,			
response and restorat							
particularly problemat							
likely to impair surface ice, downed trees, util	-	-					
wire failures).	iity pole, and whe fair	ures) and earthqua	ike (downed trees	, utility pole and			
Ideas for Implementa	tion:						
Over the next five yea							
a) Develop a list of key		on and distribution	n routes that serve	e critical			
customers and enable							
b) Develop a long-tern				distribution lines			
along critical corridors	s (including feasibility	assessment and pr	ioritization);				
c) Seek funds and opp	ortunities to relocate	power poles and p	ower lines, or har	den existing			
facilities, where feasib		reduce blockage	of roadways and to	o reduce risk of			
outages from natural o							
d) Continue to enhance			ruction methods v	where possible to			
reduce damage to util							
Coordinating Organiza	ation: Public Work						
Internal Partners:		External Partner	rs:				
Community Developm Management, GIS	nent, Emergency	Public Utility Cor	mmission, Pacific F	ower			
Potential Funding Sou	urces:	Estimated cost:	Timeline:				
			□ Ongoing				
LIMACE DENA Floatrica	Utilities Local		Short Ter	m (0-2 years)			
HMGP, PDM, Electric I Funding Resources	Otilities, Local	TBD					
Tunding Resources				n (3-5 years)			
	Long-Term (5+ years)						
Form Submitted by:	Salem Natural Hazai	ds Mitigation Com	mittee (2017)				
Action Item Status:	New						

Action Item: Multi-Hazard #10	Alignment with I	Plan Goals:			
Integrate the Mitigation Plan findings into planning and	⊠ Goal 1	⊠ Goal 4			
regulatory documents and programs including	⊠ Goal 2	Goal 5			
Comprehensive Plans.	Goal 3				
Alignment with Existing Plans/Policies:					
Action proposes integration with relevant existing plans and p	oolicies.				
Rationale for Proposed Action Item:					
The federal Disaster Mitigation Act of 2000 requires commun local governments incorporate the requirements of the mitigamechanisms, when appropriate.		· ·			
Every five years, natural hazard mitigation plans must be updated and resubmitted for approval in order to continue to be eligible for mitigation project grant funding. The updated plan must explain how the local government incorporated the mitigation plan into other planning mechanisms, when appropriate, as a demonstration of progress in local mitigation efforts. This action item serves as a reminder to the Natural Hazards Mitigation Plan committee that efforts must be made to integrate the requirements of the mitigation plan into other planning mechanisms.					
Ideas for Implementation:					
Local government functions provide a myriad of methods in which to implement actions identified in the mitigation strategy. Among them is the comprehensive plan. Others include, but are not limited to, the following: sustainability plans, capital improvement plans, redevelopment plans, post-disaster redevelopment or recovery plans, regional development plans, flood mitigation plans, college campus plans, etc. (see Federal Emergency Management Agency Local Mitigation Planning Guidance, July 2008).					
Conduct an 'audit' of the Salem Comprehensive Plan (specifically, Goal 7). Determine whether information needs to be (or can be) updated by content within the natural hazards mitigation plan or otherwise. Develop a strategy and timeline for updating Goal 7 content. Ideally, integration should happen as a dedicated component of future comprehensive plan or natural hazards mitigation plan updates.					
Inventory and review other local plans to identify gaps, weaknesses, or opportunities for enhancing plan integration.					
The American Planning Association (APA) developed a report entitled <u>Hazard Mitigation:</u> <u>Integrating Best Practices into Planning</u> . The report identifies where local planning activities could benefit from better integration of hazard mitigation concerns.					
The Federal Emergency Management Agency (FEMA) developed the Local Natural Hazard Mitigation Plan into a Community's	_				

Coordinating Organization:	Community Development				
Internal Partners:		External Partners:			
Emergency Management, Public Works, City Administration		FEMA, American Planning Association, DLCD, OEM			

includes case studies of Benton County and Corvallis NHMP integration efforts.

Potential Funding Sou	irces:	Estimated cost:	Timeline:
			Ongoing
Local Funding Resources, DLCD Technical Assistance Grants		TBD	Short Term (0-2 years)
			☐ Mid-Term (3-5 years)
			Long-Term (5+ years)
Form Submitted by:	Salem Natural Hazard	ds Mitigation Commit	tee (2017)
Action Item Status:	New		



Action Item: Mul	ti-Haz	ard #11		Alignment with	Plan Goals:
Participate in assessm for sheltering access a				Goal 1	Goal 4
all hazards.		cional fieeds p		Goal 3	
Alignment with Existi	ng Plans	s/Policies:			
Salem EOP, Marion Co	ounty EC	P, Marion Cou	inty NHMP		
Rationale for Propose	d Actio	n Item:			
Marion County has been conducting an ongoing effort to address functional needs populations. This action acknowledges the success of that work and acknowledges that additional effort is needed. Functional needs populations are an identified priority for the city and county. Salem will participate with the county's corresponding NHMP action (Marion County NHMP Priority Action #3, 2017).					
Ideas for Implementa	tion:				
Interviews, focus groups and data analysis.					
Coordinating Organiz	ation:	Emergency N	lanagement		
Internal Partners:			External Partners:		
Community Development			Marion County Emergency Management, Oregon DHS		
Potential Funding Sou	ırces:		Estimated cost:	Timeline:	
Local Funding Resources, Americorps/ Resource Assistance for Rural Environments		TBD	Mid-Tern	m (0-2 years) n (3-5 years) n (5+ years)	
Form Submitted by:	Salem	Natural Hazar	ds Mitigation Com	mittee (2017)	
Action Item Status:	New				

Action Item: Dro	ught #	1		Alignment with I	Alignment with Plan Goals:	
				Goal 1	⊠ Goal 4	
Complete and Implem	ent the	North Santiam	n Drought	Goal 2	Goal 5	
Contingency Plan				☐ Goal 3		
Alignment with Existi	ng Plans	s/Policies:				
Water Master Plan, Co	Water Master Plan, Comprehensive Plan					
Rationale for Propose	d Actio	n Item:				
Water availability is an increasing concern in Salem and Marion County. The ongoing water contingency planning effort is an innovative and successful collaboration between numerous local and regional partners. The effort is already resulting in significant mitigation benefits across Marion County. Ideas for Implementation: Complete, adopt and begin to implement the plan.						
Coordinating Organiza	ation:	Public Works				
Internal Partners:	<u> </u>	T dblic VVOIRS	External Partne	re:		
internal Farthers.				Emergency Manag	 gement). Santiam	
			Water Control District, City of Stayton, Linn Soil &			
			Water Conservation District, Marion Soil & Water			
City Departments			Conservation District, Norpac Foods, Inc., North			
			Santiam Watershed Council, Oregon Department of			
			Agriculture, Oregon Department of Environmental			
			Quality, Oregon Department of Forestry			
Potential Funding Sou	irces:		Estimated cost:	Timeline: Ongoing		
Bureau of Reclamation	n, Local	Funding	TBD	⊠ Short Ter	m (0-2 years)	
Resources		100	☐ Mid-Term	n (3-5 years)		
				Long-Tern	n (5+ years)	
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com	mittee (2017)		
Action Item Status: New						

^						
A	ction Item: Eart	nquak	(e #5		Alignment with I	<u> </u>
_					⊠ Goal 1	Goal 4
	rtner with the school		•	•	⊠ Goal 2	Goal 5
pri	oritize seismic retro	orits to s	school district t	acilities.	Goal 3	
Δli	gnment with Existii	ng Plane	s/Policies:			
A	Billient With Existin	16 1 1411.	s, i oncies.			
Ra	tionale for Propose	d Actio	n Item:			
•	Due to the high co			ts and the relative	vulnerability of th	nat population,
	schools have large				•	
	facilities will signif	icantly	reduce their vu	Inerability in the	event of an earthq	uake.
•	Oregon Senate Bil	l 3 (200	5) enables the	Oregon Office of I	Emergency Manag	ement to develop
	a grant program to		-			
	still being develop		-	•	acilities early will a	ssist communities
	in obtaining fundir					
•	The Department o			-	•	
	Assessment comp				_	
	school structures				•	•
	earthquake. These collapse in the even			etronitied accordi	ngly to reduce the	likelinood of
	The Disaster Mitig		•	uires communities	to identify compr	ehensive actions
	_		•		•	ing existing critical
	facilities, including		_		•	
	reduce their vulne			•	ciany seriodis, min	neip saiem
Ide	eas for Implementa					
•	Use DOGAMI's Sei	smic Ne	eeds Assessme	nt of Salem schoo	I facilities to identi	ify and prioritize
	school district faci	lities th	at are vulnerab	ole to seismic ever	nts.	
•	Educate school dis	strict of	ficials about the	e effectiveness of	natural hazard mi	tigation actions.
•	Coordinate with O	EM and	fEMA to seek	funding for cond	ucting seismic retr	ofit of buildings.
•	0 0	ers of t	he school distr	ict with the Salem	Natural Hazards I	Vitigation
	Committee.		1			
Co	ordinating Organiza	ation:	Emergency M	1anagement		
Int	ernal Partners:			External Partne	rs:	
Na	tural Hazards Mitig	ation Co	nmmittaa	FEMA, OEM, DO	GAMI, Salem-Keiz	er School District,
	mmunity Developm				Chemeketa C.C., V	Villamette
			Jartificht,	University, Corb		
Po	tential Funding Sou	rces:		Estimated cost:		
					Ongoing	
НΝ	/IGP, PDM, Local Fu	nding R	esources,	TDD	Short Ter	m (0-2 years)
SR	GP	_		TBD	☐ Mid-Tern	n (3-5 years)
Fa	rm Cubmitted bu	Calam	Natural Hazare	ds Mitigation Cam		n (5+ years)
	rm Submitted by:			ds Mitigation Com		
Ac	tion Item Status:	()ngoi	ng revised troi	m 2012 version of	THE NHIMP	

Action Item: Floo	d #1		Alignment with F	lan Goals:			
Update, maintain, and floodplain managemen Community Rating Sys	nt plan in accordance		☐ Goal 1 ☐ Goal 2 ☐ Goal 3	☐ Goal 4 ☐ Goal 5			
Alignment with Existin	ng Plans/Policies:						
<u> </u>							
Rationale for Propose	Rationale for Proposed Action Item:						
Floodplain management for Salem is unique and warrants a separate public process to identify specific action items. Factors include involvement in the Community Rating System, Endangered Species Act and compliance with existing adopted plans.							
Ideas for Implementa	tion:						
Continue 10-step process identified by FEMA. The City's Public Works department has started the process and anticipates a final Floodplain Management Plan to be presented to City Council by the end of 2012.							
Coordinating Organiza	ation: Public Work	S					
Internal Partners:		External Partner	External Partners:				
Emergency Manageme and Engineering	ent, Fire, Operations		FEMA, DLCD, National Flood Insurance Program, Floodplain Management Committee				
Potential Funding Sou	irces:	Estimated cost:	Timeline:				
Local Funding Resources, DLCD Technical Assistance Grant		TBD	Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)			
Form Submitted by:	Salem Natural Haza	rds Mitigation Com	<u> </u>				
Action Item Status: Ongoing, revised from 2012 version of the NHMP							

Action Item: Floo	d #2			Alignment with F	Plan Goals:	
Improve the City of Sa Program (NFIP) Comm order to reduce flood	unity Ra	ating System (C NFIP premium	CRS) rating in	☐ Goal 1 ☐ Goal 2 ☐ Goal 3	⊠ Goal 4 ☐ Goal 5	
Alignment with Existing	ng Plans	S/Policies:				
Pationale for Propose	d Action	n Itam:				
 The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, insurance premiums under the NFIP are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance. Salem has a CRS program rating of five. Implementing action items to improve the CRS rating will significantly reduce NFIP premiums on structures located within the floodplain. The Disaster Mitigation Act of 2000 requires communities to identify mitigation actions that address existing buildings and infrastructure [201.6(c)(3)(ii)]. Maintaining the status of the Community Rating System program can help the community to enhance mitigation efforts and decrease the vulnerability to floods. In addition, the Flood Mitigation Assistance Program requires that communities maintain their compliance with the NFIP. 						
 Ideas for Implementation: Coordinate with the Department of Land Conservation and Development (DLCD) and FEMA to 						
 Educate businesses and homeowners currently under the NFIP program about the CRS program and any mitigation actions they can implement to reduce their insurance premiums. Identify homes not in the NFIP that should have flood insurance. Develop mitigation activities to address repetitive and single loss flood properties in Salem, particularly in the area of McGilchrist Avenue and Pringle Road SE, adjacent to West Pringle Creek. 						
Coordinating Organiza	ation:	Public Works				
Internal Partners:		l	External Partne	rs:		
Community Developm	Community Development DLCD, National Flood Insurance Program, FEMA, Marion and Polk Counties					
Potential Funding Sou	rces:		Estimated cost:	Timeline:		
Local Funding Resources			TBD	☐ Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)	
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com	mittee		
Action Item Status:	Ongoi	Ongoing, from 2012 version of the NHMP				

Action Item: Land	dslide #1			Alignment with I	Plan Goals:	
Map areas of landslide				⊠ Goal 1	Goal 4	
River (upstream of the Geren Island water intake				Goal 2	Goal 5	
and areas impacted by	y a catastrophic fa	ailure d	of the Detroit	Goal 3		
or Big Cliff Dams. Alignment with Existing	ng Plans/Policies	•		doar 3		
Alignment with Existi	ing Flans/ Funcies.	•				
Rationale for Propose						
The current landsl "	•				•	
"work in progress"		-		~	•	
depict risk for cert	• • •				•	
just have not yet b			•			
understanding of		-		•	-	
people and critica		7				
efficient and cost effective development.						
Better data provides for better decisions to minimize loss. Incorporating indirect economic						
loss better depicts		itural h	nazard events.			
Ideas for Implementa	tion:					
Improve knowledge	ge of debris flow ((rapid	moving) landslid	e hazard areas.		
Improve landslide	hazard area map	s for a	variety of types	of landslides that	focus on areas	
that will affect peo						
Educate identified			and commercial	building owners, o	ccupants, and	
developers of thei	ir vulnerability to	risk.				
Coordinating Organiza	ation: Public W	/orks [Department			
Internal Partners:			External Partner	rs:		
Community Developm	Community Development USACE, DOGAMI, DLCD, FEMA, BLM, USFS					
Potential Funding Sou	ırces:		Estimated cost:	Timeline:		
				☐ Ongoing		
HMGP, PDM, Risk MA	P. Local Funding			Short Ter	m (0-2 years)	
Resources			TBD	☐ Mid-Term	n (3-5 years)	
				 X Long-Tern	n (5+ years)	
Form Submitted by:	Salem Natural H	lazards	s Mitigation Com	_	. , -,	
Action Item Status:	Deferred, revised from 2012 version of the NHMP					

Action Item: Lands	slide #2			Alignment with Plan Goals:				
				Goal 1	Goal 4			
Update landslide overlay maps using Light De Ranging (LIDAR) data.			etection and	Goal 2	Goal 5			
				── ◯ Goal 3				
Alignment with Existing	g Plans/Polic	ies:						
Dationala for Droposad								
Rationale for ProposedLIDAR (Light Detect			new tool that can	nrovide very nred	ise accurate and			
high-resolution ima	_	_						
The data are collect	_		_					
measurements at a			•	_				
15 centimeters (6 ir	nches). LIDAI	R mappi	ng increases the a	bility to identify ar	eas that are			
prone to landslides.								
• In 2007, the Oregon	-		•					
throughout the stat	te. The ultima	ate goal	is to provide high-	quality LIDAR cov	erage for the			
entire state.	ion:							
Ideas for Implementation:								
 Contact DOGAMI ar 	nd provide a	map of S	Salem along with a	an estimate of ava	ilable funding.			
 Seek funding oppor 					em.			
Once mapping is co	-							
Explore potential co					Polk Counties for			
LIDAR mapping of the	ne entire Said	em-Keize	er urbanized area.					
Coordinating Organizat	tion: Publi	c Works	Department					
Internal Partners:			External Partners:					
Natural Hazards Mitigat	tion Committ	ee,		LCD, DOGAMI, Kei	zer, Turner,			
City GIS technicians			Marion County,					
Potential Funding Sour	ces:		Estimated cost:	Timeline:				
				☐ Ongoing				
HMGP, PDM, Risk MAP,	, Local Fundir	ng	TBD/ Potentially	Short Ter	m (0-2 years)			
Resources			very expensive	☐ Mid-Term	n (3-5 years)			
				⊠Long-Tern	n (5+ years)			
Form Submitted by:	Salem Natura	al Hazar	ds Mitigation Com	mittee				
Action Item Status: Deferred, from 2012 version of the NHMP								

Action Item: Land	dslide	#3		Alignment with F	Plan Goals:	
Utilize the updated re			aps (DOGAMI O-	Goal 1	Goal 4	
16-02) to identify hazard areas and collabora				Goal 2	Goal 5	
Oregon Department o				⊠ doai 2		
work on landslide risk				⊠ Goal 3		
and buildings at risk to Comprehensive Plan a				⊠ Goal 3		
Alignment with Existin		•	cordingly.			
Comprehensive plans, Lidar data available from DOGAMI						
Rationale for Propose	d Actio	n Item:				
The risk assessment id			for landslides to c	ause damage to bu	uildings and	
infrastructure within t	he city;	landslides may	cause road closu	res and interruption	ons to utility	
services. The risk asses			•		•	
Road closures sometin				•		
monitor existing public	c intrast	ructure to ider	itify specific expos	sure to landslide ri	SK.	
The Disaster Mitigatio	n Act of	2000 requires	communities to id	dentify actions and	I projects that	
reduce the effects of h						
[201.6(c)(3)(ii)]. Identi			•	•		
the implementation of				·		
Ideas for Implementation:						
Utilize the Landslide Susceptibility Map and Data (DOGAMI O-16-02) to perform landslide risk analysis. Use the new information to prioritize risk reduction actions. Perform risk reduction. Update/ develop Landslide Ordinances as applicable						
Coordinating Organiza	ation:	Community D	evelopment			
Internal Partners:			External Partner	rs:		
GIS and Mapping, Eme	ergency		DOGAMI, DLCD			
Management				1		
Potential Funding Sou	rces:		Estimated cost:	Timeline:		
				☐ Ongoing		
Risk MAP, PDM, HMGI	P, Local	Funding	TDD	Short Teri	m (0-2 years)	
Resources		TBD	Mid-Term	(3-5 years)		
					n (5+ years)	
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com	·		
Action Item Status:	New	-				

Action Item: Win	dstorr	n #1		Alignment with F	Plan Goals:	
Partner with public an public about hazardou cause in the event of a	s trees	and the damag	ge they can	☐ Goal 1 ☐ Goal 2 ☐ Goal 3	⊠ Goal 4 ☐ Goal 5	
Alignment with Existin	ng Plans	s/Policies:				
Rationale for Proposed Action Item:						
 Overhead electrical lines and other above ground utilities are subject to damage from nearby trees in high winds and winter storm damage. Post-disaster, it is difficult to remove debris from the downed utility lines and this difficulty delays the time for restoration of power to the community. Partnering with utility companies to maintain and remove hazardous trees, in addition to educating the public about the damage hazardous trees can cause, will help reduce risk of damage from severe wind and winter storms. The Disaster Mitigation Act of 2000 requires communities to develop comprehensive actions to reduce the impacts of natural hazards, with an emphasis on new and existing buildings and infrastructure [201.6(c)(3)(ii)]. Maintenance and removal of hazardous trees will reduce the impact of severe weather, and will continue power service to rural customers as well as ODOT, State Police, county sheriff, emergency services, telephone utilities, and cell phone companies. Ideas for Implementation: Coordinate with the Salem Public Works Department to gather information about the maintenance and removal of hazardous trees. Work with the community and Salem Public Works Department to identify areas that are prone to damage from nearby trees and perform the necessary maintenance or removal of 						
Create a hazardou	s tree ir	nventory.				
Coordinating Organiza	ation:	Public Works				
Internal Partners:			External Partners:			
Department	Community Services Parks Operations, Fire Department ODOT, Portland General Electric, Salem Electric					
Potential Funding Sources: Estimated cost: Timeline:						
Local Funding Resources, Utilities		TBD	Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)		
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com	mittee		
Action Item Status:	Ongoing, from 2012 version of the NHMP					

Action Item: Win	ter Sto	orm #1		Alignment with F	Plan Goals:		
Partner with public an public about hazardou cause in the event of a	s trees wind o	and the damag r winter storm	e they can	☐ Goal 1 ☐ Goal 2 ☐ Goal 3	⊠ Goal 4 ☐ Goal 5		
Alignment with Existing Plans/Policies:							
•							
 Overhead electrical lines and other above ground utilities are subject to damage from nearby trees in high winds and winter storm damage. Post-disaster, it is difficult to remove debris from the downed utility lines and this difficulty delays the time for restoration of power to the community. Partnering with utility companies to maintain and remove hazardous trees, in addition to educating the public about the damage hazardous trees can cause, will help reduce risk of damage from severe wind and winter storms. The Disaster Mitigation Act of 2000 requires communities to develop comprehensive actions to reduce the impacts of natural hazards, with an emphasis on new and existing buildings and infrastructure [201.6(c)(3)(ii)]. Maintenance and removal of hazardous trees will reduce the impact of severe weather, and will continue power service to rural customers as well as ODOT, State Police, county sheriff, emergency services, telephone utilities, and cell phone companies. Ideas for Implementation: Coordinate with the Salem Public Works Department to gather information about the maintenance and removal of hazardous trees. Work with the community and Salem Public Works Department to identify areas that are prone to damage from nearby trees and perform the necessary maintenance or removal of those trees. 							
Create a hazardou	s tree ir	iventory.					
Coordinating Organiza	ation:	Public Works	Department				
Internal Partners:			External Partner	rs:			
Community Services P Department	Community Services Parks Operations, Fire ODOT Portland General Electric Salem Electric						
Potential Funding Sou	rces:		Estimated cost:	Timeline:			
Local Funding Resources, Utilities			TBD	Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)		
Form Submitted by:	Salem	Natural Hazard	ds Mitigation Com	mittee			
Action Item Status:	Ongoing, from 2012 version of the NHMP						

A atiana Itanaa 14/ila	J.C: ДА		A 1:	Nam Caalar			
Action Item: Wile			Alignment with I	rian Goais:			
-	ention outreach, as ou		⊠ Goal 1	Goal 4			
•	olk County (West Salen	•	Goal 2	Goal 5			
	ans (CWPPs), to reside	nts near the					
wildland-urban interfa			Goal 3				
Alignment with Existi	ng Plans/Policies:						
Dationals for Draw and							
•	 Rationale for Proposed Action Item: The Oregon Department of Forestry (ODF) completed a Communities at Risk Assessment for 						
	areas in northwest and		_				
-	ust outside of Salem bu he city. Conducting wi			· ·			
	antly reduce the vulner	•					
_	alem Fire Department	-					
	es, the right fuels, and			•			
· ·	isk Assessment show t		•	•			
	tible fuels. Conducting	•					
	sidents to wildfire ever	•	on outreach can n	cip to reduce			
· ·	ty and Polk County CW		gies for conducting	g wildfire			
	ach to residents living i			~			
·	ach using the CWPP wil			_			
	ed by the Disaster Mitig	-	_	usemb plans and			
	gation Act of 2000 requ			tion actions that			
	existing buildings and i						
				_			
prevention outreach measures will help to protect new and existing buildings from wildfire. Ideas for Implementation:							
•	olk County CWPPs con	tain several action	n items for reducin	g the impacts of			
	unities throughout the			-			
	tion and defensible spa		•				
the impact of wild	-	J		J			
Coordinate with r	esponsible agencies lis	ted in the CWPPs	to implement acti	on items.			
Coordinating Organiz	ation: Fire Departm	ent					
Internal Partners:		External Partne	rs:				
Public Works and Con	nmunity	Oregon Departn	nent of Forestry, N	1arion County Fire			
Development Departr	-		n Suburban Fire D				
Department, Commu	nity Services	Neighborhood A	ssociations				
Potential Funding Sou	urces:	Estimated cost:	Timeline:				
			□ Ongoing				
			☐ Short Ter	m (0-2 years)			
Local Funding Resource	ces, ODF	TBD		•			
				n (3-5 years)			
			Long-Tern	n (5+ years)			
Form Submitted by:	Salem Natural Hazard	ds Mitigation Com	ımittee				
Action Item Status:	Ongoing, revised from 2012 version of the NHMP						

Action Item: Haza	ardous Materi	als incident #1	Alignment with I	Plan Goals:		
Map facilities that handle or contain hazardous materials, rank them based on their level of risk, and refine response strategies for each situation in the event of an accident. Goal 1 Goal 2 Goal 3 Alignment with Existing Plans/Policies:						
Rationale for Propose	d Action Item:					
 Salem has identified and mapped hazardous materials located in the city. These maps need to be updated to determine the number and types of natural hazards present, and their level of risk. The Salem Natural Hazards Mitigation Committee indicated how the railroad running near the Capital Mall area in Salem is an area for potential concern because of the significant amount of hazardous materials that run through the area each year. Accidents with people and automobiles could derail cars and have the potential to spill hazardous materials in the Capital Mall area, affecting City and State operations. Refining response strategies for accidents on the railroad line would reduce the vulnerability of Salem to hazardous materials incidents. The Disaster Mitigation Act of 2000 requires communities to identify actions and projects that reduce the effects of hazards on the community, particularly to buildings and infrastructure [201.6(c)(3)(ii)]. Identifying facilities that handle or contain hazardous materials, ranking them based on their level of risk, and developing appropriate response strategies will help reduce the negative impact of hazardous materials on the population in Salem and improve disaster response efforts. 						
 Contact businesses and property owners with hazardous materials about strategies they can implement to reduce the impacts of hazardous materials in their immediate area. Coordinate response strategies with alert warning systems to minimize potential exposure to hazardous materials. Provide information on shelter-in-place strategies to property owners and neighbors to reduce exposure to hazardous materials and simplify response efforts. Identify vulnerable areas along the Union Pacific and Burlington Northern Santa Fe railroad lines and coordinate with railroad companies to develop strategies for reducing accidents along the railroad lines. 						
Coordinating Organiza	ation: Fire Depar	rtment				
Internal Partners:		External Partne	rs:			
Emergency Management, Public Works OSHA, Salem Chamber of Commerce, Neighborhood Associations, ODOT, OEM, State Police, State Fire Marshal						
Potential Funding Sou	ırces:	Estimated cost:	Timeline:			
Local Funding Resources		TBD	Mid-Term	m (0-2 years) n (3-5 years) n (5+ years)		
Form Submitted by:	Salem Natural Ha	azards Mitigation Com	nmittee			
Action Item Status:	Retain, from 2012 version of the NHMP					

APPENDIX A-3: ACTION ITEM FORM

Action Item:		Alignment with Plan Goals:			
		Goal 1	Goal 4		
		Goal 2	Goal 5		
		Goal 3			
Alignment with Existing Plans/Policies:					
Rationale for Proposed Action Item:					
Ideas for Implementation:					
Coordinating Organization:					
Internal Partners:	External Partners	5 :			
Datastial Funding Courses	Fatimental costs	Timeline			
Potential Funding Sources:	Estimated cost:	Timeline: Ongoing			
			m (0-2 years)		
		l	n (3-5 years)		
Forms Culturalities have		lLong-Tern	n (5+ years)		
Form Submitted by:					
Action Item Status:					