

Fifteen Years of Stream and Watershed Restoration on State Forests: 1995-2009

State Forest Management Plans (FMPs) establish an Aquatic and Riparian Strategy for implementing habitat restoration projects. The FMPs establish several principles that provide the context and approach that State Forests uses to guide habitat restoration activities and priorities. The purpose of this report is to summarize restoration activities that have taken place on State Forest streams from 1995 to 2009.

Stream Restoration

- ***117 miles of Stream Habitat Restoration on State Forest Streams:*** These projects typically involve placing large wood and/or boulders in streams to improve habitat conditions for coho, steelhead, or Chinook salmon. The projects are designed and often implemented in collaboration with the local Oregon Department of Fish and Wildlife (ODFW) biologists. Some projects are associated with harvest units and done in collaboration with watershed councils, local non-profit organizations, and Oregon Watershed Enhancement Board (Figure 1).

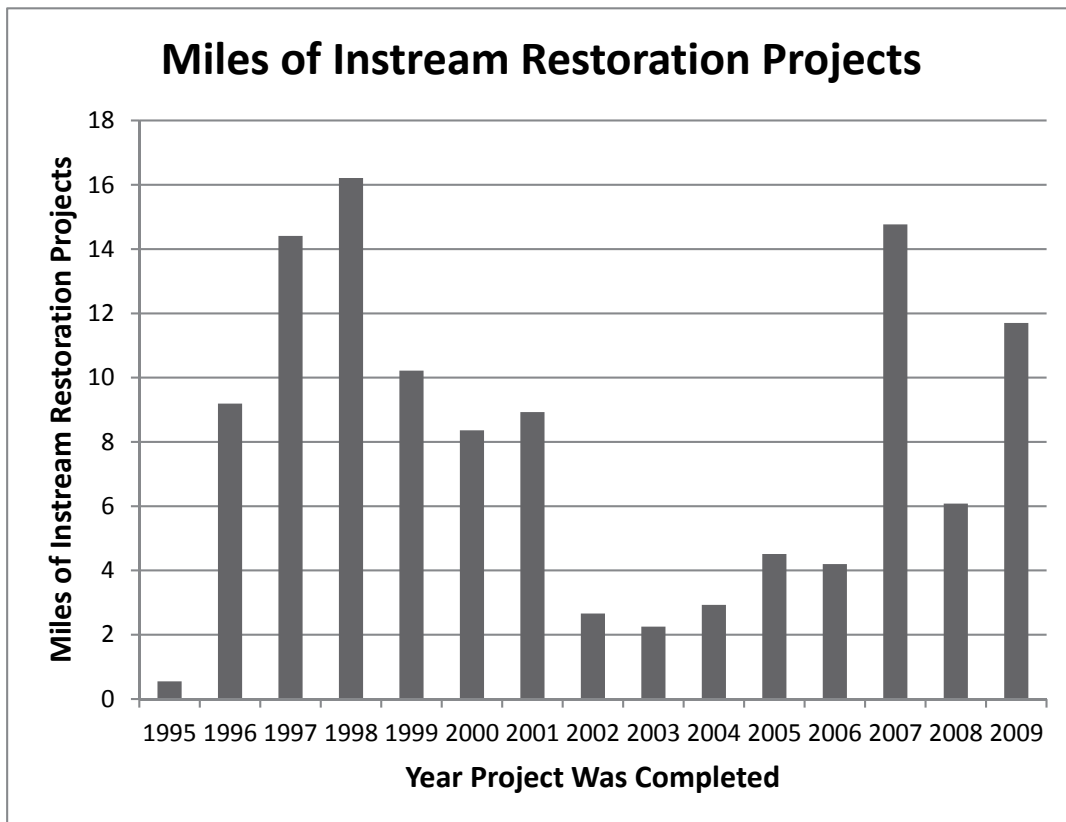


Figure 1. Miles of instream restoration projects on State Forest streams from 1995-2009. Total of 117 miles were treated.

Fish Passage Projects

- *373 Fish Passage Improvement Projects:* State Forests has actively worked to replace culverts to improve fish passage. This typically involves eliminating jumps into culverts and placing new culverts so they will hold gravels and simulate a natural streambed (Figure 2). These improvements make it possible for juvenile fish to enter and swim upstream through culverts.
- *Improved Access to 179 Miles of Stream:* It is estimated that these fish passage improvement projects increased access to a total of 179 miles of stream.

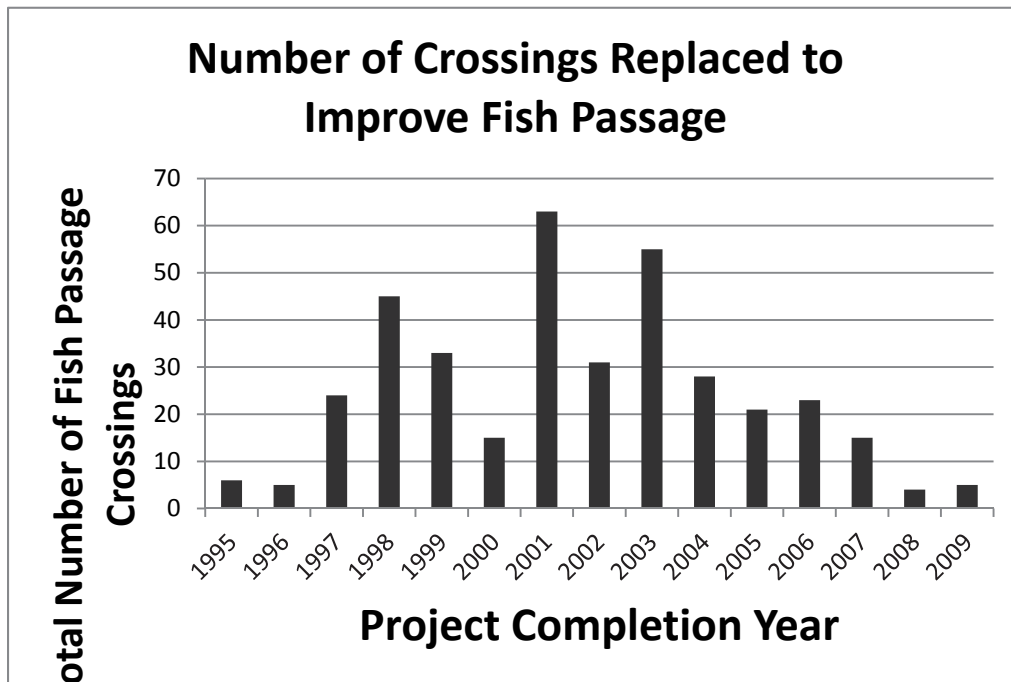


Figure 2. Number of fish passage improvement projects from 1995-2009.

Road Improvement

- *1291 State Forest road-improvement projects.* Several decades of monitoring and research has improved our understanding of how forest roads can affect water quality and fish habitat. This information has been folded into restoration activities designed to reduce sediment delivery from forest roads to streams and pass larger peak flows. These projects consist of grass seeding, replacing crossings to pass larger peak flows, closing roads, decommissioning roads, relocating roads, surveying roads to identify problems, and improving road drainage with activities such as disconnecting roads from streams by installing additional cross drains (Table 1).

Table 1. Road improvement projects on all State Forest Districts from 1995-2008*.

Road Improvement Activity	Accomplishments
Grass seeding	358 miles
Peak flow passage improvement	2,214 crossings
Road closure	27 miles
Road decommission	95 miles
Road reconstruction	18 miles
Road relocation	2 miles
Road survey	2,434 miles
Improving Road Drainage	1,116 miles
Cross-drains to disconnect roads from streams	4,088 cross drains

* State forest stopped reporting these types of activities in 2009.

Summary

- State Forests has established a sound record of investing and collaborating in stream and watershed restoration activities.
- Activities peaked between 1997 and 2002 (likely response to Oregon Plan for Salmon and Watersheds) and again from 2007 to 2009 (Figures 1 and 2). Most recent investments have largely focused on instream restoration projects.
- Tillamook (35), Coos (34), and West Oregon (18) Districts implemented the most miles of instream restoration projects over the past 15 years. Astoria District (141) and Tillamook (108) Districts replaced the most culverts to improve fish passage. Tillamook (531 projects), Astoria (402 projects), and Coos (132 projects) implemented the greatest number of road improvement projects (Table 2).
- It is important to use caution when making comparisons across districts. Districts obviously vary in size, miles of road, and number of fish bearing streams. The availability of fisheries expertise and the involvement of local organizations also vary across districts. All of these factors influence opportunities and resources to implement restoration projects.

Table 2. Total Number of restoration projects from 1995-2009 by district.

District Name	Miles With Stream Improvement Projects	Total Number of Fish Passage Improvement Projects	Total Number of Road Improvement Projects
Astoria District	10.5	141	402
Coos District	34.22	27	132
Forest Grove District	10.36	5	69
Klamath Falls			1
North Cascade District	5.5	27	97
Southwest	0.8	12	46
Tillamook District	35.19	108	531
West Lane District	2.50	22	
West Oregon District	17.9	31	13
<i>Total</i>	<i>116.97</i>	<i>373</i>	<i>1291</i>

Data source: All restoration activities are reported to Oregon Watershed Enhancement Board and are available through the Oregon Watershed Restoration Inventory (OWRI) database. All information for this report came from an August 23, 2011 query of the OWRI database. Data for total cash and in-kind investments and 2010 projects were not available at the time this report was generated. The exception is for the Elliott State Forest and that information has been summarized on pages in the CSL annual.

State Forestry Restoration Projects reported to OWRI (Completion Years 2010-2011)

Prepared by Bobbi Riggers, 7/23/12, Updated 8/16/12 with cost & donated tree data

Year 2010	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	10	4	1.2	3	3.1	\$210,842	\$4,300	45
Forest Grove	2	1	2	1	0.76	\$37,000	\$50,680	87
North Cascade*	0	0	0	0	0			
Tillamook	6	2	3	2	2.1	\$23,668	\$442,359	42
West Oregon	1	1	1.5	0	0	\$2,800	\$26,314	120
Coos/Elliott	13	6	13.13	1	0.76	\$271,712	\$2,461,589	341
Western Lane*	0	0	0	0	0			
Grants Pass*	0	0	0	0	0			
Klamath*	0	0	0	0	0			
Total	32	14	20.83	7	6.72	\$546,022	\$2,985,242	635

Year 2011	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria*	0	0	0	0	0			
Forest Grove	2	0	0	2	3.5	\$28,200	\$22,600	
North Cascade*	0	0	0	0	0			
Tillamook	1	0	0	1	0.3	\$43,512	\$0	
West Oregon*	0	0	0	0	0			
Coos/Elliott	11	3	7.5	3	1.26	\$56,798	\$65,052	60
Western Lane*	0	0	0	0	0			
Grants Pass*	0	0	0	0	0			
Klamath*	0	0	0	0	0			
Total	14	3	7.5	6	5.06	\$128,510	\$87,652	60
Total (2010-11)	46	17	28.33	13	11.78	\$674,532	\$3,072,894	695

*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2010-2011)

Prepared by Bobbi Riggers, 7/24/12

Road Improvement: Total number of projects = 10
(all projects were completed in 2010, none reported in 2011)

Table 1. Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Grass seeding	2.12	miles
Peak Flow Passage improvement	14	structures
Road closure	3.54	miles
Road decommission	3.18	miles
Road reconstruction	0	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	0	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2011-2012)

Prepared by Bobbi Riggers, 9/11/13

Year 2011 District	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	6	0	0	0	0	6	\$58,284	\$0	
Forest Grove	2	0	0	2	3.5	0	\$28,200	\$22,600	
North Cascade*	0	0	0	0	0	0			
Tillamook	2	1	0.1	1	0.3	0	\$51,532	\$432	15
West Oregon*	0	0	0	0	0	0			
Coos/Elliott	11	3	7.5	3	1.26	0	\$56,798	\$65,052	60
Western Lane*	0	0	0	0	0	0			
Grants Pass*	0	0	0	0	0	0			
Klamath*	0	0	0	0	0	0			
Total	21	4	7.6	6	5.06	6	\$194,814	\$88,084	75

Year 2012 District	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	15	1	0.25	0	0	14	\$153,983	\$972	18
Forest Grove	4	2	4.06	2	7	2	\$116,461	\$108,905	233
North Cascade*	0	0	0	0	0	0			
Tillamook	3	1	6.35	1	0.54	1	\$68,850	\$223,594	122
West Oregon*	0	0	0	0	0	0			
Coos/Elliott	10	5	12.39	0	0	1	\$90,632	\$91,948	235
Western Lane	1	1	0.85	0	0	0	\$15,450	\$0	48
Grants Pass*	0	0	0	0	0	0			
Klamath*	0	0	0	0	0	0			
Total	33	10	23.9	3	7.54	18	\$445,376	\$425,419	656

Total (2011-12)	54	14	31.5	9	12.6	24	\$640,190	\$513,503	731
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*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2011-2012)

Prepared by Bobbi Riggers, 9/11/13

Road Improvement: Total number of projects = 24

(6 projects were completed in 2011; 18 projects were completed in 2012)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	1	miles
Peak Flow Passage improvement	0	structures
Road closure	1.63	miles
Road decommission	7.08	miles
Road reconstruction	0	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	126	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2012-2013)

Prepared by Bobbi Riggers, 8/11/14

Year 2012	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	15	1	0.25	0	0	14	\$153,983	\$972	18
Forest Grove	4	2	4.06	2	7	2	\$116,461	\$108,905	233
North Cascade*	0	0	0	0	0	0			
Tillamook	3	1	6.35	1	0.54	1	\$68,850	\$223,594	122
West Oregon*	0	0	0	0	0	0			
Coos/Elliott	10	5	12.39	0	0	1	\$90,632	\$91,948	235
Western Lane	1	1	0.85	0	0	0	\$15,450	\$0	48
Grants Pass*	0	0	0	0	0	0			
Klamath*	0	0	0	0	0	0			
Total	33	10	23.9	3	7.54	18	\$445,376	\$425,419	656

Year 2013	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	5	1	0.5	0	0	4	\$82,616	\$1,200	50
Forest Grove	5	0	0	4	2.45	1	\$52,035	\$7,394	
North Cascade*	0	0	0	0	0	0			
Tillamook*	0	0	0	0	0	0			
West Oregon*	0	0	0	0	0	0			
Coos/Elliott	1	0	0.7	0	0	0			
Western Lane*	0	0	0	0	0	0			
Grants Pass*	0	0	0	0	0	0			
Klamath*	0	0	0	0	0	0			
Total	11	1	1.2	4	2.45	5	\$134,651	\$8,594	50

Total (2012-13)	44	11	25.1	7	9.99	23	\$580,027	\$434,013	706
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*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2012-2013)

Prepared by Bobbi Riggers, 8/11/14

Road Improvement: Total number of projects = 23
(18 projects were completed in 2012; 5 projects were completed in 2013)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	1	miles
Peak Flow Passage improvement	2	structures
Road closure	0.11	miles
Road decommission	6.85	miles
Road reconstruction	0.85	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	108	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2013-2014)

Prepared by Bobbi Riggers, 9/08/15

Year 2013	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	5	1	0.5	0	0	4	\$82,616	\$1,200	50
Forest Grove	5	0	0	4	2.45	1	\$52,035	\$7,394	0
North Cascade*	0	0	0	0	0	0	\$0	\$0	0
Tillamook	0	0	0	0	0	0	\$0	\$0	0
West Oregon*	0	0	0	0	0	0	\$0	\$0	0
Coos/Elliott	1	0	0.7	0	0	0	\$0	\$0	0
Western Lane*	0	0	0	0	0	0	\$0	\$0	0
Grants Pass*	0	0	0	0	0	0	\$0	\$0	0
Klamath*	0	0	0	0	0	0	\$0	\$0	0
Total	11	1	1.2	4	2.45	5	\$134,651	\$8,594	50

Year 2014	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	16	0	0	4	1.68	15	\$297,072	\$0	0
Forest Grove	3	0	0	0	0	3	\$79,547	\$0	0
North Cascade*	0	0	0	0	0	0	\$0	\$0	0
Tillamook	2	0	0	2	0.75	1	\$15,500	\$0	0
West Oregon	1	1	1.1	0	0	0	\$19,940	\$13,639	57
Coos/Elliott	7	2	5.84	0	0	0	\$162,326	\$343,165	114
Western Lane*	0	0	0	0	0	0	\$0	\$0	0
Grants Pass*	0	0	0	0	0	0	\$0	\$0	0
Klamath*	0	0	0	0	0	0	\$0	\$0	0
Total	29	3	6.94	6	2.43	19	\$574,385	\$356,804	171

Total (2013-14)	40	4	8.14	10	4.88	24	\$709,036	\$365,398	221
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*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2013-2014)

Prepared by Bobbi Riggers, 9/08/15

Road Improvement: Total number of projects = 24

(5 projects were completed in 2013; 19 projects were completed in 2014)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	3.18	miles
Peak Flow Passage improvement	2	structures
Road closure	0	miles
Road decommission (vacated)	8.24	miles
Road reconstruction	0.85	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	105	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2014-2015)

Prepared by Bobbi Riggers, 9/16/16

Year 2014	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	16	0	0	4	1.68	15	\$297,072	\$0	0
Forest Grove	3	0	0	0	0	3	\$79,547	\$0	0
North Cascade*	0	0	0	0	0	0	\$0	\$0	0
Tillamook	2	0	0	2	0.75	1	\$15,500	\$0	0
West Oregon	1	1	1.1	0	0	0	\$19,940	\$13,639	57
Coos/Elliott	7	2	5.84	0	0	0	\$162,326	\$343,165	114
Western Lane*	0	0	0	0	0	0	\$0	\$0	0
Grants Pass*	0	0	0	0	0	0	\$0	\$0	0
Klamath*	0	0	0	0	0	0	\$0	\$0	0
Total	29	3	6.94	6	2.43	19	\$574,385	\$356,804	171

Year 2015	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	9			2		7	\$67,982		
Forest Grove*									
North Cascade*									
Tillamook*									
West Oregon*									
Coos/Elliott	5		4.21						
Western Lane*									
Grants Pass*									
Klamath*									
Total	14	0	4.21	2	0	7	\$67,982	\$0	0
Total (2014-15)	43	3	11.15	8	2.43	26	\$642,367	\$356,804	171

*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2014-2015)

Prepared by Bobbi Riggers, 9/19/16

Road Improvement: Total number of projects = 26
(19 projects were completed in 2014; 7 projects were completed in 2015)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	3.18	miles
Peak Flow Passage improvement	0	structures
Road closure	0	miles
Road decommission (vacated)	9.35	miles
Road reconstruction	0	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	126	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2015-2016)

Prepared by Bobbi Riggers, 8/25/17

Year 2015	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	9			2	1.1	7	\$67,982		
Forest Grove*									
North Cascade*									
Tillamook*									
West Oregon*									
Coos/Elliott	5		4.21						
Western Lane*									
Grants Pass*									
Klamath*									
Total	14	0	4.21	2	1.1	7	\$67,982	\$0	0

Year 2016	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	13	4	8.9	3	0.27	10	\$159,408	\$145,674	335
Forest Grove	2	2	5.07				\$28,414	\$133,846	243
North Cascade	7					7	\$572,092	\$0	
Tillamook*									
West Oregon*									
Coos/Elliott	10	1	5.98	2	15	1	\$11,882	\$39,541	41
Western Lane*									
Grants Pass*									
Klamath*									
Total	32	7	19.95	5	15.27	18	\$771,796	\$319,061	619
Total (2015-16)	46	7	24.16	7	16.37	25	\$839,778	\$319,061	619

*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2015-2016)

Prepared by Bobbi Riggers, 8/25/17

Road Improvement: Total number of projects = 25
(7 projects were completed in 2015; 18 projects were completed in 2016)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	0	miles
Peak Flow Passage improvement	36	structures
Road closure	0.3	miles
Road decommission (vacated)	3.64	miles
Road reconstruction	9.16	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	46	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2016-2017)

Prepared by Bobbi Riggers, 9/12/18

Year 2016	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	13	4	8.9	3	0.27	10	\$159,408	\$145,674	335
Forest Grove	2	2	5.07				\$28,414	\$133,846	243
North Cascade	7					7	\$572,092	\$0	
Tillamook*									
West Oregon*									
Coos/Elliott	10	1	5.98	2	15	1	\$11,882	\$39,541	41
Western Lane*									
Grants Pass*									
Klamath*									
Total	32	7	19.95	5	15.27	18	\$771,796	\$319,061	619

Year 2017	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	5	2	0.85	2	0.6	3	\$129,879	\$14,750	56
Forest Grove	6	2	1.11	2	0.33		\$217,362	\$34,838	67
North Cascade	4					4	\$194,983		
Tillamook	3	1	0.03	2	0.35		\$180,960		10
West Oregon	1	1	1				\$2,250		12
Coos/Elliott	4		3.49			1	\$62,286	\$224,567	
Western Lane	1	1	5.26	1	0.3	1	\$5,839	\$93,398	337
Grants Pass*									
Klamath*									
Total	24	7	11.74	7	1.58	9	\$793,559	\$367,553	482
Total (2016-17)	56	14	31.69	12	16.85	27	\$1,565,355	\$686,614	1101

*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2016-2017)

Prepared by Bobbi Riggers, 9/12/18

Road Improvement: Total number of projects = 27

(18 projects were completed in 2016; 9 projects were completed in 2017)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	0	miles
Peak Flow Passage improvement	41	structures
Road closure	3	miles
Road decommission (vacated)	3.86	miles
Road reconstruction	18.58	miles
Road relocation	0	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	81	structures

State Forestry Restoration Projects reported to OWRI (Completion Years 2017-2018)

Prepared by Bobbi Riggers, 9/24/19

Year 2017	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	5	2	0.85	2	0.6	3	\$129,879	\$14,750	56
Forest Grove	6	2	1.11	2	0.33		\$217,362	\$34,838	67
North Cascade	4					4	\$194,983		
Tillamook	3	1	0.03	2	0.35		\$180,960		10
West Oregon	1	1	1				\$2,250		12
Coos/Elliott	4		3.49			1	\$62,286	\$224,567	
Western Lane	1	1	5.26	1	0.3	1	\$5,839	\$93,398	337
Grants Pass*									
Klamath*									
Total	24	7	11.74	7	1.58	9	\$793,559	\$367,553	482

Year 2018	# of Annual Restoration Projects	# Instream Wood Placement Projects Completed	Miles of Restoration (Instream & Riparian activities)	# Fish Barriers Removed/ Replaced/Modified	Miles of Access Restored	# of Road Projects	ODF Dollars (project work)	Other Project Dollars	# trees donated (key piece logs)
Astoria	5	1	0.61	4	1.29	5	\$409,819		24
Forest Grove	2			2	1.06		\$46,851		
North Cascade	5					5	\$323,237		
Tillamook*									
West Oregon*									
Coos	1	1	1.02				\$10,265	\$64,203	125
Western Lane*									
Grants Pass*									
Klamath*									
Total	13	2	1.63	6	2.35	10	\$790,172	\$64,203	149

Total (2017-18)	37	9	13.37	13	3.93	19	\$1,583,731	\$431,756	631
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*No projects reported for these districts

State Forestry Restoration Projects reported to OWRI (Completion Years 2017-2018)

Prepared by Bobbi Riggers, 9/24/19

Road Improvement: Total number of projects = 19
(9 projects were completed in 2017; 10 projects were completed in 2018)

Road improvement projects on all State Forest Districts:

Road Improvement Activity	Accomplishments	Unit
Road grass seeding	0	miles
Peak Flow Passage improvement	9	structures
Road closure	0	miles
Road decommission (vacated)	4.32	miles
Road reconstruction	13.94	miles
Road relocation	3.48	miles
Road survey	0	miles
Improving Road Drainage :		
Cross-drains to disconnect roads from streams	27	structures