

*Coastal Multi-Species Conservation and Management Plan*

Hatchery Program Summaries

2014-2020



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NOTE: The percentage of smolts/pre-smolts marked is considered 100% if most or all fish released are adipose clipped in an automated marking trailer. Bay and river harvest estimates are derived from harvest card returns. Ocean harvest estimates are based on coded wire tag (CWT) recoveries in ocean fisheries and are not available for all programs.

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Coho</b>	ID:	NFN-Co
		Stock Name:	Nehalem (32H) & Fishhawk (99H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Nehalem	Broodstock Type:	Local, segregated
<b>Management Area/s:</b>	<b>North Fork Nehalem R</b>	Program Duration:	1966 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Nehalem Hatchery	45.1709	-123.8018	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	248	0	0%	372,752	129,286	100%	97,913
2015	312	0	0%	389,442	143,995	100%	86,008
2016	150	0	0%	230,672	137,200	100%	101,609
2017	200	0	0%	197,680	160,317	100%	101,660
2018	124	0	0%	168,482	139,503	100%	106,309
2019	160	0	0%	199,778	165,585	100%	106,845
<i>Average</i>	<i>199</i>	<i>0</i>	<i>0%</i>			<i>100%</i>	<i>100,057</i>
<b>Target</b>	<b>Total ≥ 140 fish</b>					<b>100%</b>	<b>100,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Nehalem Hatchery	100,000	Smolt	15	AD	March/April

### HATCHERY RETURNS

N/A = not available

Return Year	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>1</sup>	Retained at Hatchery <sup>2</sup>	Spawners <sup>3</sup>	Other <sup>4</sup>	Total
2014	N/A	2,560	2.5%	8,482	764	N/A	11,806
2015	N/A	888	0.9%	1,431	0	N/A	2,319
2016	N/A	1,519	1.5%	4,225	261	N/A	6,005
2017	N/A	719	0.7%	909	0	N/A	1,628
2018	N/A	410	0.5%	353	0	N/A	763
2019	N/A	161	0.2%	688	0	N/A	849
2020	N/A	278	0.3%	2,881	N/A	N/A	3,159
<i>Average</i>		<i>934</i>	<i>0.9%</i>	<i>2,710</i>	<i>171</i>		<i>3,790</i>

<sup>1</sup>Based only on bay and river harvest; significant ocean harvest occurs but cannot be evaluated due to lack of coded wire tag release

<sup>2</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>3</sup>Estimates based on carcass recoveries in randomly selected spawning surveys in the population area

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- Fishhawk Lake stock (99H) returns every 3<sup>rd</sup> year (e.g. 2011, 2014). Returns in other years (e.g. 2012, 2013) are Stock 32H
- Natural origin coho salmon have not been intentionally incorporated into either stock since 1986; starting in 2020, a new integrated broodstock will be established using wild coho salmon with the intent of replacing the long-term hatchery stock

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Coho</b>	ID:	TTR-Co
		Stock Name:	Trask River (34H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Tillamook	Broodstock Type:	Local, segregated
<b>Management Area/s:</b>	<b>Tillamook - Trask R</b>	Program Duration:	1906 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Gold Cr Trap	45.43139	-123.7328	Hatchery	Collect
Trask Hatchery	45.4314	-123.7328	Hatchery	Spawn, Incubate, Rear, Acclimate, Release
Nehalem Hatchery	45.1709	-123.8018	Hatchery	Rear

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	202	0	0%	318,122	174,277	100%	88,090
2015	213	0	0%	226,910	164,749	100%	100,245
2016	322	0	0%	388,864	233,615	100%	100,148
2017	173	0	0%	216,585	148,417	100%	100,793
2018	247	0	0%	287,277	239,488	100%	102,649
2019	259	0	0%	285,425	217,075	100%	97,825
<i>Average</i>	<i>236</i>	<i>0</i>	<i>0%</i>			<i>100%</i>	<i>98,292</i>
<b>Target</b>	<b>Total ≥ 150 fish</b>					<b>100%</b>	<b>100,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Trask Hatchery	100,000	Smolt	15	ADLM	March/April

### HATCHERY RETURNS

N/A = not available

Return Year	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>1</sup>	Retained at Hatchery <sup>2</sup>	Spawners <sup>3</sup>	Other <sup>4</sup>	Total
2014	N/A	1,753	1.5%	6,812	460	N/A	9,025
2015	N/A	829	0.7%	2,162	16	N/A	3,007
2016	N/A	1,149	1.0%	4,221	0	N/A	5,370
2017	N/A	334	0.3%	589	0	N/A	923
2018	N/A	169	0.1%	774	0	N/A	943
2019	N/A	152	0.1%	1,074	0	N/A	1,226
2020	N/A	176	0.2%	2,424	N/A	N/A	2,600
<i>Average</i>		<i>652</i>	<i>0.6%</i>	<i>2,579</i>	<i>79</i>		<i>3,299</i>

<sup>1</sup>Based only on bay and river harvest; significant ocean harvest occurs but cannot be evaluated due to lack of coded wire tag release

<sup>2</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>3</sup>Estimates based on carcass recoveries in randomly selected spawning surveys in the population area

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- Natural origin coho salmon have not been incorporated into the broodstock since 1996; starting in 2020, a new integrated broodstock will be established using wild coho salmon with the intent of replacing the long-term hatchery stock

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Coho</b>	ID:	SUM-Co
		Stock Name:	South Umpqua/Cow Creek (18H)
SMU:	Coastal	Program Type:	Mitigation
Population Area:	South Umpqua	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>South Umpqua R</b>	Program Duration:	1987 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Galesville Dam Trap	42.8494	-123.1795	District	Collect
Rock Cr Hatchery	43.3353	-123.0014	Hatchery	Hold, Spawn, Incubate, Rear
Cow Cr	42.8494	-123.1795	District	Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	64	0	0%	95,058	78,255	100%	60,660
2015	83	0	0%	100,746	93,148	100%	60,883
2016	75	0	0%	89,499	78,644	100%	61,214
2017	77	0	0%	73,408	66,394	100%	61,404
2018	82	11	12%	93,319	86,637	100%	60,338
2019	96	13	12%	110,025	69,501	100%	700
<i>Average</i>	<i>80</i>	<i>4</i>	<i>4%</i>			<i>100%</i>	<i>50,867</i>
<b>Target</b>	<b>Total ≥ 74 fish</b>					<b>100%</b>	<b>60,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Cow Creek	60,000	Smolt	10	AD	late March/April

### HATCHERY RETURNS

N/A = not available

Return Year	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>1</sup>	Retained at Hatchery <sup>2</sup>	Spawners <sup>3</sup>	Other <sup>4</sup>	Total
2014	N/A	1,788	3.0%	219	1,072	N/A	3,079
2015	N/A	1,368	2.3%	224	583	N/A	2,175
2016	N/A	617	1.0%	407	565	N/A	1,589
2017	N/A	2,303	3.8%	186	251	N/A	2,740
2018	N/A	1,954	3.2%	334	417	N/A	2,705
2019	N/A	747	1.2%	364	607	N/A	1,718
2020	N/A	292	0.5%	510	N/A	N/A	802
<i>Average</i>		<i>1,296</i>	<i>2.1%</i>	<i>321</i>	<i>583</i>		<i>2,115</i>

<sup>1</sup>Based only on bay and river harvest; significant ocean harvest occurs but cannot be evaluated due to lack of coded wire tag release

<sup>2</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>3</sup>Estimates based on carcass recoveries in randomly selected surveys in the Umpqua basin and Winchester Dam counts

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- Smolt releases from Galesville Acclimation net pens below Galesville Dam were discontinued after 2015 brood year
- Almost all 2019 brood year production was lost due to the Archie Creek Fire in 2020

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Chinook</b>	ID:	NEC-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Trask River (34H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Necanicum R	Broodstock Type:	Non-local
<b>Management Area/s:</b>	<b>Necanicum R</b>	Program Duration:	1997 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Trask Hatchery	45.4314	-123.7328	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release
Gold Cr Trap	45.4314	-123.7328	Hatchery	Collect
Nehalem Hatchery	45.1709	-123.8018	Hatchery	Rear
Necanicum River	46.0115	-123.9274	District	Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	Average Fecundity	Viable Eggs	Ponded Fry	% Marked	Total Released
2014						100%	25,586
2015						100%	26,460
2016			See TTR-ChF			100%	27,347
2017						100%	26,967
2018						100%	28,220
2019						100%	14,578
<i>Average</i>						<i>100%</i>	<i>24,860</i>
<b>Target</b>						<b>100%</b>	<b>25,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Necanicum River	25,000	Smolt	18	AD	September

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	N/A	70	N/A	-	N/A	N/A	70
2015	N/A	107	N/A	-	N/A	N/A	107
2016	N/A	84	N/A	-	N/A	N/A	84
2017	N/A	63	N/A	-	N/A	N/A	63
2018	N/A	12	N/A	-	N/A	N/A	12
2019	N/A	21	N/A	-	N/A	N/A	21
2020	N/A	40	N/A	-	N/A	N/A	40
<i>Average</i>		<i>57</i>					<i>57</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>TBD pending additional analysis of harvest and age structure<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- Fingerlings from TTR-ChF program are reared at Nehalem Hatchery from June-September for NEC-ChF smolt release

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	TTR-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Trask River (34H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Tillamook	Broodstock Type:	Local, Segregated
<b>Management Area/s:</b>	<b>Tillamook - Trask R</b>	Program Duration:	1906 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Trask Hatchery	45.4314	-123.7328	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release
Gold Cr Trap	45.4314	-123.7328	Hatchery	Collect

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	256	45	15%	605,266	287,600	100%	153,032
2015	250	50	17%	550,004	315,226	100%	155,975
2016	261	47	15%	546,544	357,524	100%	158,914
2017	278	21	7%	552,991	218,763	100%	160,492
2018	239	24	9%	478,525	230,141	100%	162,424
2019	64	20	24%	150,030	139,749	100%	121,161
<i>Average</i>	225	35	14%			100%	152,000
<b>Target</b>	<b>Total ≥ 254 fish</b>					<b>100%</b>	<b>150,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Trask Hatchery	120,000	Smolt	19	AD	August
Trask Hatchery	30,000	Smolt	19	AD + CWT	August

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	1,036	4,643	N/A	1,922	N/A	N/A	7,601
2015	1,269	6,128	N/A	2,125	N/A	30	9,552
2016	1,936	2,836	N/A	1,140	N/A	N/A	5,912
2017	889	2,064	N/A	534	N/A	N/A	3,487
2018	843	1,148	N/A	564	N/A	N/A	2,555
2019	358	395	N/A	167	N/A	N/A	920
2020	238	1,041	N/A	821	N/A	N/A	2,100
<i>Average</i>	938	2,608		1,039			4,590

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- TTR-ChF broodstock and rearing also supports Necanicum River ChF smolt release (NEC-ChF)
- CMP changed smolt release from 113,000 to 150,000, discontinued unfed fry releases in Trask River



**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Chinook</b>	<b>ID:</b>	<b>NES-ChF</b>
<b>Run:</b>	<b>Fall</b>	<b>Stock Name:</b>	<b>Nestucca River (47H)</b>
<b>SMU:</b>	<b>Coastal</b>	<b>Program Type:</b>	<b>Harvest: Augmentation</b>
<b>Population Area:</b>	<b>Nestucca R</b>	<b>Broodstock Type:</b>	<b>Local, Integrated</b>
<b>Management Area/s:</b>	<b>Nestucca R</b>	<b>Program Duration:</b>	<b>1999 - Ongoing</b>

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Cedar Creek Hatchery	45.2158	123.8453	Hatchery	Hold, Spawn, Incubate, Rear
Three Rivers Trap	45.2158	123.8453	Hatchery	Collect
Rhoades Pond	45.1709	-123.8021	STEP	Rear
Three Rivers	45.1709	-123.8018	District/STEP	Release
Nestucca River	45.1843	-123.9573	District/STEP	Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	82	0	0%	169,628	113,352	98%	105,116
2015	44	28	39%	137,943	117,871	96%	108,354
2016	58	10	15%	118,228	106,820	97%	102,891
2017	71	12	14%	137,184	115,757	95%	116,875
2018	66	10	13%	140,119	121,663	94%	95,400
2019	51	28	35%	137,912	128,605	100%	108,500
<i>Average</i>	<i>62</i>	<i>15</i>	<i>19%</i>			<i>97%</i>	<i>106,189</i>
<b>Target</b>	<b>Total ≥ 74 fish</b>					<b>100%</b>	<b>100,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Three Rivers	30,000	Smolt	10	AD	August
Nestucca River	70,000	Smolt	10	AD	August

**HATCHERY RETURNS**

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	N/A	1,583	N/A	477	N/A	N/A	2,060
2015	N/A	2,895	N/A	383	N/A	N/A	3,278
2016	N/A	1,103	N/A	155	N/A	N/A	1,258
2017	N/A	1,186	N/A	124	N/A	N/A	1,310
2018	N/A	434	N/A	208	N/A	N/A	642
2019	N/A	852	N/A	212	N/A	N/A	1,064
2020	N/A	667	N/A	449	N/A	N/A	1,116
<i>Average</i>		<i>1,246</i>		<i>287</i>			<i>1,533</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>TBD pending additional analysis of harvest and age structure<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- CMP did not alter smolt release, but discontinued unfed fry releases

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	SAL-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Salmon River (36H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Salmon R	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>Salmon R</b>	Program Duration:	1976 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Salmon River Hatchery	45.0267	-123.9503	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	105	51	33%	351,176	265,181	100%	156,150
2015	125	45	26%	362,523	253,126	100%	198,274
2016	164	42	20%	410,137	265,658	100%	222,667
2017	118	35	23%	308,522	282,289	100%	230,279
2018	59	60	50%	251,918	220,801	100%	181,570
2019	102	48	32%	307,152	251,291	100%	208,952
<i>Average</i>	<i>112</i>	<i>47</i>	<i>31%</i>			<i>100%</i>	<i>199,649</i>
<b>Target</b>	<b>Total ≥ 150 fish</b>					<b>100%</b>	<b>200,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Salmon River Hatchery	200,000	Smolt	14	AD + CWT	Aug 15-Sep 15

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	2,337	3,086	N/A	3,017	4,146	N/A	12,586
2015	2,460	5,974	N/A	5,996	3,357	N/A	17,787
2016	3,490	2,168	N/A	2,283	3,526	N/A	11,467
2017	1,325	1,704	N/A	1,399	1,098	N/A	5,526
2018	708	881	N/A	393	21	N/A	2,003
2019	392	359	N/A	798	1,379	N/A	2,928
2020	771	411	N/A	1,172	1,891	N/A	4,245
<i>Average</i>	<i>1,640</i>	<i>2,083</i>		<i>2,151</i>	<i>2,203</i>		<i>8,077</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Chinook</b>	ID:	UBY-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Smith River (151H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Lower Umpqua R	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>Umpqua Bay</b>	Program Duration:	1989 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Winchester Cr Trap	43.6735	-124.1784	District/STEP	Collect
Mill Cr, Smith River Falls, WF Smith R, NF Smith R			District/STEP	Collect
Rock Cr Hatchery	43.3353	-123.0014	Hatchery	Incubate, Rear
GRWB STEP Facility	43.7231	-124.1042	District/STEP	Collect, Hold, Spawn, Incubate, Rear, Release
Winchester Bay Acclimation	43.6889	-124.1792	District/STEP	Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	110	0	0%	270,426	189,064	100%	155,888
2015	94	18	16%	196,368	146,948	93%	114,405
2016	0	9	n/a	13,552	0	n/a	0
2017	40	14	26%	93,824	69,329	96%	68,053
2018	70	19	21%	135,025	106,399	96%	105,936
2019	97	18	16%	269,049	138,449	0%	59,864
<i>Average</i>	<i>69</i>	<i>13</i>	<i>16%</i>			<i>77%</i>	<i>84,024</i>
<b>Target</b>	<b>Total ≥ 110 fish</b>					<b>100%</b>	<b>170,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
GRWB STEP Facility	25,000	Pre-smolt	40	AD	May-June
Winchester Bay Acclimation	75,000	Pre-smolt	40	AD	May-June
Winchester Bay Acclimation	70,000	Smolt	10	AD	October

**HATCHERY RETURNS (Stock 151 and 18 combined)**

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	N/A	1,578	N/A	259	N/A	N/A	1,837
2015	N/A	2,457	N/A	111	N/A	N/A	2,568
2016	N/A	1,084	N/A	0	N/A	N/A	1,084
2017	N/A	714	N/A	117	N/A	N/A	831
2018	N/A	772	N/A	118	N/A	N/A	890
2019	N/A	187	N/A	99	N/A	N/A	286
2020	N/A	114	N/A	3	N/A	N/A	117
<i>Average</i>		<i>987</i>		<i>101</i>			<i>1,088</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>TBD pending additional analysis of harvest and age structure<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- Production of pre-smolts and smolts has often been limited by the availability of adequate broodstock
- 2019 brood year pre-smolts were released directly into Winchester Cr without being marked due to COVID-19 constraints
- Remainder of 2019 brood year production was transferred to Leaburg Hatchery and subsequently lost due to wildfire

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	MUM-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	South Umpqua (18H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Middle Umpqua R	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>Middle Umpqua R</b>	Program Duration:	

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Happy Valley Trap	43.1614	-123.3943	District/STEP	Collect
Rock Cr Hatchery	43.3353	-123.0014	Hatchery	Hold, Spawn, Incubate, Rear
GRWB STEP Facility	43.7231	-124.1042	District/STEP	Hold, Spawn, Incubate
Barrett Cr Facility	43.0156	-123.4462	District/STEP	Rear
Cooper Cr Facility	43.3804	-123.2849	District/STEP	Rear
Eastwood Elem/Deer Cr	43.2088	-123.3190	District/STEP	Rear
Calapooya Creek	43.4387	-123.2811	District/STEP	Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	0	170	100%	339,028	251,525	96%	233,013
2015							
2016							
2017							
2018							
2019							
2020							
No releases after 2014 Brood Year							
<i>Average</i>	<i>0</i>	<i>170</i>	<i>100%</i>			<i>96%</i>	<i>233,013</i>
<b>Target</b>	<b>Total ≥ 186 fish</b>					<b>100%</b>	<b>300,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Calapooya Cr	300,000	Pre-smolt	80-250	AD	late April-May

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014							
2015							
2016							
2017							
2018							
2019							
2020							
See UBY-ChF							
<i>Average</i>							

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- Releases ended after 2014 brood year; program was suspended due to poor performance and lack of feasible solutions

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Chinook</b>	ID:	CBY-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Coos River (37H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Coos	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>Coos Bay Frontal</b>	Program Duration:	1982 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Dellwood Trap (SF Coos R)	43.3765	-123.9923	District/STEP	Collect
WF Millicoma R	43.4513	-124.0557	District/STEP	Collect
Morgan Cr STEP Facility	43.3390	-124.0806	STEP	Collect, Spawn, Rear, Acclimate, Release
Noble Cr STEP Facility	43.2560	-124.1975	STEP	Collect, Spawn, Rear, Release
Millicoma Interpretive Ctr	43.4883	-124.0201	District/STEP	Rear
Bandon Hatchery	43.1161	-124.3842	Hatchery	Incubate, Rear
Cole Rivers Hatchery	42.6636	-122.6836	Hatchery	Rear
Blossom Gulch Acclimation	43.3660	-124.2228	District/STEP	Acclimate, Release
Fourth Cr Reservoir	43.3630	-124.2970	District/Coquille Indian Tribe	Acclimate, Release
Pony Slough	43.2200	-124.1500	District	Release
Charleston Cr Acclimation	43.3455	-124.3285	District	Display/Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	2,160	22	1%	3,062,812	2,496,622	96%	2,191,858
2015	3,026	8	0%	2,733,559	2,243,608	98%	2,005,241
2016	1,755	0	0%	2,866,182	2,163,795	99%	2,091,231
2017	2,190	0	0%	2,754,525	2,215,674	99%	1,722,776
2018	973	0	0%	1,501,865	1,312,136	100%	1,044,141
2019	1,551	0	0%	2,092,306	1,883,599	100%	1,764,646
<i>Average</i>	<i>1,943</i>	<i>5</i>	<i>0%</i>			<i>99%</i>	<i>1,803,316</i>
<b>Target</b>	<b>Total ≥ 1,600 fish</b>					<b>100%</b>	<b>2,093,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Morgan Cr STEP Facility	1,032,500	Pre-smolt	75	AD	May/June
Morgan Cr STEP Facility	60,000	Pre-smolt	75	AD + CWT	May/June
Noble Cr STEP Facility	570,000	Pre-smolt	75	AD	May
Noble Cr STEP Facility	30,000	Pre-smolt	75	AD + CWT	May
Blossom Gulch Acclimation	200,000	Pre-smolt	75	AD	May
Fourth Cr Reservoir	100,000	Pre-smolt	75	AD	May
Pony Slough	70,000	Pre-smolt	75	AD	May
Pony Slough	30,000	Pre-smolt	75	AD + CWT	May
Charleston Cr Acclimation	~200	Pre-smolt	75	AD	May

<b>HATCHERY RETURNS</b>							N/A = not available
Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	5,596	3,466	N/A	9,670	N/A	178	18,910
2015	6,140	5,400	N/A	6,808	N/A	107	18,455
2016	6,079	2,336	N/A	4,364	N/A	0	12,779
2017	2,205	2,215	N/A	3,469	N/A	0	7,889
2018	2,882	1,037	N/A	2,040	N/A	66	6,025
2019	2,266	1,823	N/A	2,445	N/A	16	6,550
2020	2,750	1,697	N/A	3,160	N/A	N/A	7,607
<i>Average</i>	<i>3,988</i>	<i>2,568</i>		<i>4,565</i>		<i>61</i>	<i>11,174</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

<b>PROGRAM NOTES</b>
• CMP changed pre-smolt release from 1,993,000 to 2,093,000; moved WF Millicoma R release to Pony Slough

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	COB-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Coquille River (44H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Coquille R	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>Coquille Bay</b>	Program Duration:	1983 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Bandon Hatchery	43.1161	-124.3842	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release
Various Tangle-Net Collection Sites			District/STEP	Collect
Cunningham Cr Facility	43.1855	-124.1936	Dist/Coq HS	Collect, Rear, Release
Cole Rivers Hatchery	42.6636	-122.6836	Hatchery	Incubate, Rear
Ferry Cr Acclimation	43.1193	-124.4074	Dist/STEP/Hat	Acclimate, Release
Sevenmile Cr Acclimation	43.1681	-124.3483	Dist/STEP/Hat	Acclimate, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	24	144	86%	389,103	238,864	100%	209,071
2015	0	169	100%	299,335	207,444	100%	167,468
2016	131	11	8%	297,027	195,455	100%	129,588
2017	147	17	10%	295,700	206,574	100%	177,151
2018	16	20	56%	76,513	66,187	100%	65,952
2019	35	1	3%	70,480	67,473	100%	66,116
<i>Average</i>	<i>59</i>	<i>60</i>	<i>44%</i>			<i>100%</i>	<i>135,891</i>
<b>Target</b>	<b>Total ≥ 150 fish</b>					<b>100%</b>	<b>175,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Cunningham Cr Facility	20,000	Pre-smolt	100	AD	May
Ferry Cr Acclimation	10,000	Pre-smolt	100	AD	May
Ferry Cr Acclimation	65,000	Smolt	13	AD	September
Sevenmile Cr Acclimation	80,000	Smolt	13	AD	September

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	N/A	551	N/A	N/A	N/A	N/A	551
2015	N/A	1,516	N/A	0	N/A	N/A	1,516
2016	N/A	668	N/A	201	N/A	N/A	869
2017	N/A	662	N/A	244	N/A	N/A	906
2018	N/A	326	N/A	36	N/A	N/A	362
2019	N/A	183	N/A	38	N/A	N/A	221
2020	N/A	63	N/A	3	N/A	N/A	66
<i>Average</i>		<i>567</i>		<i>87</i>			<i>642</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- CWT tagging of Coquille fall Chinook was discontinued after 2007 brood year, but was reinitiated in 2018 brood year
- In 2018 and 2019 brood years, smolt releases only occurred in Ferry Creek

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	ELK-ChF
<b>Run:</b>	<b>Fall</b>	Stock Name:	Elk River (35H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Elk R	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>Elk R</b>	Program Duration:	1968 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Elk River Hatchery	42.7389	-124.4028	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	878	63	7%	903,054	289,753	93%	269,268
2015	570	103	15%	784,619	297,723	96%	272,331
2016	732	46	6%	948,585	311,693	100%	282,891
2017	351	40	10%	859,168	312,160	100%	285,502
2018	140	64	31%	440,169	309,278	100%	286,051
2019	376	79	17%	683,902	325,447	100%	286,012
<i>Average</i>	<i>508</i>	<i>66</i>	<i>14%</i>			<i>98%</i>	<i>280,343</i>
<b>Target</b>	<b>Total ≥ 250 fish</b>					<b>100%</b>	<b>275,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Elk River Hatchery	255,000	Smolt	12	AD + CWT	Sep-Nov
Elk River Hatchery	20,000	Smolt	5	AD + VENT	Feb-Mar

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	1,885	1,583	N/A	2,210	636	N/A	6,314
2015	1,795	1,462	N/A	2,475	850	N/A	6,582
2016	1,779	1,434	N/A	1,717	969	N/A	5,899
2017	655	644	N/A	1,184	646	N/A	3,129
2018	546	217	N/A	661	73	N/A	1,497
2019	1,202	351	N/A	1,392	590	N/A	3,535
2020	1,273	714	N/A	1,966	534	N/A	4,487
<i>Average</i>	<i>1,305</i>	<i>915</i>		<i>1,658</i>	<i>614</i>		<i>4,492</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- CMP changed smolt release from 325,000 to 275,000



## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	TTR-ChS
<b>Run:</b>	<b>Spring-run</b>	Stock Name:	Trask Spring Chinook (34H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Tillamook	Broodstock Type:	Local, Segregated
<b>Management Area/s:</b>	<b>Tillamook - Trask R</b>	Program Duration:	1907 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Trask Hatchery	45.4314	-123.7328	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release
Cedar Creek Hatchery	45.2158	-123.8453	Hatchery	Incubate, Rear
Whiskey Cr STEP Hatchery	45.3942	-123.9361	STEP	Incubate, Rear
Tuffy Creek Pond	45.5905	-123.4663	Hatchery	Rear

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	280	22	7%	651,194	453,483	100%	412,951
2015	317	11	3%	669,706	441,764	100%	393,709
2016	317	12	4%	634,834	333,120	100%	301,243
2017	361	12	3%	664,422	519,890	100%	425,883
2018	360	17	5%	722,485	631,504	100%	427,714
2019	360	0	0%	671,367	539,167	100%	436,808
<i>Average</i>	<i>333</i>	<i>12</i>	<i>4%</i>			<i>100%</i>	<i>399,718</i>
<b>Target</b>	<b>Total ≥ 254 fish</b>					<b>100%</b>	<b>400,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Trask Hatchery	300,000	Smolt	12	AD	July/August
Trask Hatchery	30,000	Smolt	12	AD + CWT	July/August
Trask Hatchery	50,000	Smolt	12	ADRV	July/August
Trask River	20,000	Smolt	12	AD	July/August

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Freshwater Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	1,142	3,181	N/A	1,924	N/A	N/A	6,247
2015	669	2,919	N/A	1,525	N/A	N/A	5,113
2016	1,031	1,707	N/A	880	N/A	N/A	3,618
2017	304	1,855	N/A	1,078	N/A	N/A	3,237
2018	207	784	N/A	862	N/A	N/A	1,853
2019	138	710	N/A	1,058	N/A	N/A	1,906
2020	90	861	N/A	723	N/A	N/A	1,674
<i>Average</i>	<i>512</i>	<i>1,717</i>		<i>1,150</i>			<i>3,378</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- CMP increased total program release from 345,000 to 400,000
- Wilson River release of 125,000 smolts was discontinued, and Trask River release was increased from 220,000 to 400,000

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Chinook</b>	ID:	NES-ChS
<b>Run:</b>	<b>Spring-run</b>	Stock Name:	Nestucca Spring Chinook (47H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Nestucca R	Broodstock Type:	Local, Segregated
<b>Management Area/s:</b>	<b>Nestucca R, Little Nestucca R</b>	Program Duration:	1975 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Cedar Creek Hatchery	45.2158	-123.8453	Hatchery	Hold, Spawn, Incubate, Rear, Release
Three Rivers Trap	45.2158	-123.8453	Hatchery	Collect
Nestucca River	45.1843	-123.9573	District	Release
Beaver Creek	45.2941	-123.8207	District	Release
Little Nestucca River	Estuary to Stella Falls (~RM 5)		District	Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	182	0	0%	351,948	264,867	100%	239,727
2015	198	0	0%	397,552	256,968	100%	243,584
2016	194	0	0%	355,314	271,547	100%	239,438
2017	198	0	0%	345,933	278,442	100%	239,965
2018	194	0	0%	326,150	298,001	100%	234,898
2019	186	2	1%	339,506	281,045	100%	248,351
<i>Average</i>	<i>192</i>	<i>0</i>	<i>0%</i>			<i>100%</i>	<i>240,994</i>
<b>Target</b>	<b>Total ≥ 160 fish</b>					<b>100%</b>	<b>230,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing	Management Area
Three Rivers	25,000	Smolt	12	AD + CWT	July/August	Nestucca R
Nestucca River	130,000	Smolt	12	AD	July/August	Nestucca R
Beaver Cr	45,000	Smolt	12	ADRM	July/August	Nestucca R
Little Nestucca River	30,000	Smolt	12	ADLM	July/August	Little Nestucca R

**HATCHERY RETURNS**

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Freshwater Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	1,444	2,760	N/A	1,374	N/A	N/A	5,578
2015	621	2,191	N/A	825	N/A	N/A	3,637
2016	611	1,726	N/A	572	N/A	N/A	2,909
2017	212	871	N/A	511	N/A	N/A	1,594
2018	202	531	N/A	384	N/A	N/A	1,117
2019	25	1,333	N/A	798	N/A	N/A	2,156
2020	N/A	1,691	N/A	840	N/A	N/A	2,531
<i>Average</i>	<i>519</i>	<i>1,586</i>		<i>758</i>			<i>2,789</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>TBD pending additional analysis of harvest and age structure<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- CMP increased smolt release from 110,000 to 230,000, including new release of 30,000 smolts in the Little Nestucca River

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Chinook</b>	ID:	NUM-ChS
<b>Run:</b>	<b>Spring</b>	Stock Name:	North Umpqua (55H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	North Umpqua	Broodstock Type:	Local, Integrated
<b>Management Area/s:</b>	<b>North Umpqua R</b>	Program Duration:	1952 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Winchester Dam Trap	43.2847	-123.3545	District/STEP	Collect
Rock Cr Hatchery	43.3353	-123.0014	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	224	38	15%	480,518	419,585	100%	3,525
2015	235	31	12%	526,018	432,450	100%	354,629
2016	220	27	11%	443,315	345,549	100%	320,192
2017	248	32	11%	498,889	422,813	100%	377,580
2018	55	46	46%	222,485	160,817	100%	146,888
2019	289	56	16%	545,273	391,088	100%	0
<i>Average</i>	<i>212</i>	<i>38</i>	<i>18%</i>			<i>100%</i>	<i>200,469</i>
<b>Target</b>	<b>310-390 fish</b>					<b>100%</b>	<b>342,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Rock Cr Hatchery	212,000	Smolt	8-10	AD	October
Rock Cr Hatchery	130,000	Smolt	8-10	AD	February

### HATCHERY RETURNS

N/A = not available

Return Year <sup>1</sup>	Ocean Harvest	Freshwater Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners <sup>4</sup>	Other <sup>5</sup>	Total
2014	N/A	1,568	N/A	875	6,899	N/A	9,342
2015	N/A	1,160	N/A	588	3,932	N/A	5,680
2016	N/A	1,214	N/A	1,005	3,113	N/A	5,332
2017	N/A	997	N/A	537	1,847	N/A	3,381
2018	N/A	217	N/A	247	1,761	N/A	2,225
2019	N/A	167	N/A	693	1,686	N/A	2,546
2020	N/A	534	N/A	553	1,792	N/A	2,879
<i>Average</i>		<i>837</i>		<i>643</i>	<i>3,004</i>		<i>4,484</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>TBD pending additional analysis of harvest and age structure

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Winchester Dam estimate minus fish retained at the hatchery and estimated harvest above the dam

<sup>5</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- 2019 brood year production was lost due to the Archie Creek Fire

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	NEC-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	North Fork Nehalem (32H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Necanicum	Broodstock Type:	Non-local, segregated
<b>Management Area/s:</b>	<b>Necanicum R</b>	Program Duration:	1977 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Nehalem Hatchery	45.1709	-123.8018	Hatchery	Collect, Hold, Spawn, Incubate, Rear
Volmer Cr	45.9178	-123.8949	District	Release
Necanicum R, multiple locations downstream from RM 18			District	Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014						100%	40,239
2015						100%	40,141
2016						100%	40,530
2017			See NFN-STW			100%	39,078
2018						100%	37,692
2019						100%	39,308
2020						100%	38,893
<i>Average</i>						<i>100%</i>	<i>39,412</i>
<b>Target</b>						<b>100%</b>	<b>40,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Volmer Cr	13,333	Smolt	6	AD	March/April
Necanicum R	13,333	Smolt	6	ADRM	March/April
Necanicum R (lower)	13,334	Smolt	6	ADLM	March/April

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	309	0.8%	-	N/A	N/A	309
2015	-	690	1.7%	-	N/A	N/A	690
2016	-	522	1.3%	-	N/A	N/A	522
2017	-	561	1.4%	-	N/A	N/A	561
2018	-	499	1.2%	-	N/A	N/A	499
2019	-	385	0.9%	-	N/A	N/A	385
2020	-	529	1.4%	-	N/A	N/A	529
<i>Average</i>		<i>499</i>	<i>1.2%</i>				<i>499</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- NFN-StW (Stock 32H) also supports Necanicum River StW smolt release (NEC-StW)

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	NFN-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	NF Nehalem (32F/32H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Nehalem	Broodstock Type:	Local, integrated and segregated
<b>Management Area/s:</b>	<b>North Fork Nehalem R</b>	Program Duration:	1977 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Nehalem Hatchery	45.1709	-123.8018	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK (32F/32H) AND RELEASE (32F & 32H)

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	% Marked	32F Stock Release	32H Stock Release	Total Released
2014	195	0	0%	100%	0	97,090	97,090
2015	254	0	0%	100%	0	87,360	87,360
2016	184	0	0%	100%	0	89,756	89,756
2017	192	0	0%	100%	0	86,550	86,550
2018	126	0	0%	100%	0	86,863	86,863
2019	180	27	13%	100%	10,751	79,170	89,921
2020	194	29	13%	100%	13,411	71,422	84,833
<i>Average</i>	<i>189</i>	<i>8</i>	<i>4%</i>	<i>100%</i>			<i>88,910</i>
<b>Target</b>	<b>Total ≥ 200 fish</b>			<b>100%</b>			<b>90,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Nehalem Hatchery	90,000	Smolt	6	AD	March/April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	1,536	1.6%	1,041	N/A	N/A	2,577
2015	-	3,927	4.3%	2,858	N/A	N/A	6,785
2016	-	3,174	3.4%	1,476	N/A	N/A	4,650
2017	-	1,502	1.5%	926	N/A	N/A	2,428
2018	-	3,975	4.6%	659	N/A	N/A	4,634
2019	-	433	0.5%	521	N/A	N/A	954
2020	-	780	0.9%	760	N/A	N/A	1,540
<i>Average</i>		<i>2,190</i>	<i>2.4%</i>	<i>1,177</i>			<i>3,367</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- NFN-StW (Stock 32H) also supports Necanicum River StW smolt release (NEC-StW)
- NF Nehalem 32F stock production began in Brood Year 2019

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	TWI-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Wilson (121F/121H) & Stock 47H
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Tillamook	Broodstock Type:	Local, integrated & Non-local
<b>Management Area/s:</b>	<b>Tillamook - Wilson R</b>	Program Duration:	1996 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Wilson R, various locations			District	Collect (Angler-Caught), Release
Trask Hatchery	45.4314	-123.7328	Hatchery	Hold, Spawn, Incubate, Rear
Hughey Creek STEP Facility	45.4689	-123.7697	District/STEP	Hold, Rear, Release
Tuffy Creek (SF Wilson R)	45.5905	-123.4663	District/STEP	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK (121F/121H) AND RELEASE (121F/121H and 47H)

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	% Marked	121F/H Stock Release	47H Stock Release	Total Released
2014	20	100	83%	100%	106,724	50,426	157,150
2015	0	112	100%	100%	104,104	41,082	145,186
2016	47	130	73%	100%	120,058	42,892	162,950
2017	44	121	73%	100%	111,895	43,846	155,741
2018	34	141	81%	100%	151,012	0	151,012
2019	35	116	77%	100%	152,317	0	152,317
2020	34	133	80%	100%	167,197	0	167,197
<i>Average</i>	<i>31</i>	<i>122</i>	<i>81%</i>	<i>100%</i>			<i>155,936</i>
<b>Target</b>	<b>Up to 160 fish</b>			<b>100%</b>			<b>150,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Wilson River	80,000	Smolt	6	AD	April
Hughey Creek STEP Facility	30,000	Smolt	6	AD	April
Tuffy Creek (SF Wilson R)	40,000	Smolt	6	AD	April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	3,434	2.4%	421	N/A	N/A	3,855
2015	-	6,024	4.8%	528	N/A	N/A	6,552
2016	-	6,313	4.4%	603	N/A	N/A	6,916
2017	-	3,950	2.5%	354	N/A	N/A	4,304
2018	-	3,792	2.6%	259	N/A	N/A	4,051
2019	-	3,310	2.0%	134	N/A	N/A	3,444
2020	-	6,675	4.3%	172	N/A	N/A	6,847
<i>Average</i>		<i>4,785</i>	<i>3.3%</i>	<i>353</i>			<i>5,138</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- CMP changed release from 140,000 to 150,000 smolts and ended release of 40,000 smolts in the Kilchis River
- Use of non-local 47H broodstock ended after the 2017 brood year

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	NES-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Nestucca (47F/47H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Nestucca	Broodstock Type:	Local, integrated & Non-local
<b>Management Area/s:</b>	<b>Nestucca R</b>	Program Duration:	2003 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Nestucca R, various locations			District	Collect (Angler-Caught), Release
Cedar Creek Hatchery	45.1709	-123.8018	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release

### BROODSTOCK (47F) AND RELEASE (47F and 47H)

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	% Marked	47F Stock Release	47H Stock Release	Total Released
2014	0	82	100%	100%	95,663	50,243	145,906
2015	0	110	100%	100%	95,557	42,074	137,631
2016	0	124	100%	100%	107,622	38,541	146,163
2017	3	101	97%	100%	100,080	41,418	141,498
2018	4	136	97%	100%	141,278	0	141,278
2019	7	132	95%	100%	145,641	0	145,641
2020	3	135	98%	100%	142,734	0	142,734
<i>Average</i>	2	117	98%	100%			142,979
<b>Target</b>	<b>Total ≥ 140 fish</b>			<b>100%</b>			<b>140,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Nestucca R	90,000	Smolt	6	AD	April
Cedar Creek Hatchery	50,000	Smolt	6	AD	April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	2,336	2.0%	128	N/A	N/A	2,464
2015	-	2,806	2.4%	173	N/A	N/A	2,979
2016	-	2,938	2.6%	151	N/A	N/A	3,089
2017	-	1,664	1.1%	173	N/A	N/A	1,837
2018	-	3,682	2.7%	109	N/A	N/A	3,791
2019	-	3,098	2.1%	10	N/A	N/A	3,108
2020	-	3,975	2.8%	6	N/A	N/A	3,981
<i>Average</i>		2,928	2.3%	107			3,036

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- CMP changed smolt release from 110,000 to 140,000
- Use of non-local 47H broodstock ended after the 2017 brood year

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	SIL-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Siletz River (33F)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Siletz	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>Siletz R</b>	Program Duration:	1995 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Siletz River, various locations			District	Collect (Angler-Caught)
Siletz Falls trap	44.8627	-123.7331	District	Collect
Alsea Hatchery	44.4228	-123.5658	Hatchery	Hold, Spawn, Incubate, Rear
Palmer Cr Acclimation	44.7811	-123.8353	District	Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	22	58	73%	124,265	96,642	100%	49,032
2015	15	67	82%	121,181	82,358	100%	44,807
2016	10	84	89%	164,943	127,402	100%	52,237
2017	12	91	88%	162,993	108,540	100%	54,352
2018	0	110	100%	164,130	125,040	100%	53,751
2019	0	76	100%	114,623	79,180	100%	51,339
2020	0	81	100%	152,378	117,279	100%	53,962
<i>Average</i>	<i>8</i>	<i>81</i>	<i>90%</i>			<i>100%</i>	<i>51,354</i>
<b>Target</b>	<b>Total ≥ 80 fish</b>					<b>100%</b>	<b>50,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Palmer Creek Acclimation	50,000	Smolt	6	ADLM	late April/May

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	2,239	4.3%	N/A	N/A	N/A	2,239
2015	-	2,090	5.6%	N/A	N/A	N/A	2,090
2016	-	1,002	4.7%	N/A	N/A	N/A	1,002
2017	-	1,204	2.5%	N/A	N/A	N/A	1,204
2018	-	1,359	3.0%	N/A	N/A	N/A	1,359
2019	-	2,062	3.9%	N/A	N/A	N/A	2,062
2020	-	2,202	4.1%	N/A	N/A	N/A	2,202
<i>Average</i>		<i>1,737</i>	<i>4.0%</i>				<i>1,737</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**



## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	ALS-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Alsea (43F/43H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Alsea	Broodstock Type:	Local, integrated and segregated
<b>Management Area/s:</b>	<b>Alsea R</b>	Program Duration:	2000 (43F Stock) - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Alsea R, various locations			District	Collect (Angler-Caught)
Alsea Hatchery	44.4228	-123.5658	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release
River's Edge Boat Ramp	44.3776	-123.8026	District	Release

### BROODSTOCK (43F) AND RELEASE (43F and 43H)

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	% Marked	43F Stock Release	43H Stock Release	Total Released
2014	58	68	54%	100%	74,713	71,993	146,706
2015	0	78	100%	100%	37,655	107,356	145,011
2016	0	97	100%	100%	82,032	65,821	147,853
2017	153	45	23%	100%	83,450	64,271	147,721
2018	108	44	29%	100%	105,135	40,296	145,431
2019	104	77	43%	100%	105,089	41,801	146,890
2020	160	99	38%	100%	106,491	41,878	148,369
<i>Average</i>	<i>83</i>	<i>73</i>	<i>55%</i>	<i>100%</i>			<i>146,854</i>
<b>Target</b>	<b>Total ≥ 90 fish</b>			<b>100%</b>			<b>140,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Alsea Hatchery	40,000	Smolt	6	ADLM	early April
Alsea Hatchery	80,000	Smolt	6	ADRM	early April
River's Edge Boat Ramp	20,000	Smolt	6	ADRM	early April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	2,410	1.6%	798	N/A	N/A	3,208
2015	-	4,314	2.9%	1,075	N/A	N/A	5,389
2016	-	2,791	1.9%	1,368	N/A	N/A	4,159
2017	-	1,427	1.0%	893	N/A	N/A	2,320
2018	-	1,428	1.0%	571	N/A	N/A	1,999
2019	-	3,138	2.1%	568	N/A	N/A	3,706
2020	-	5,065	3.4%	927	N/A	N/A	5,992
<i>Average</i>		<i>2,939</i>	<i>2.0%</i>	<i>886</i>			<i>3,825</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- Alsea 43H stock was established in 1936. Naturally-produced fish were last incorporated in the stock in the early 1980's
- CMP changed smolt release from 120,000 to 140,000

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	SIU-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Siuslaw River (38H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Siuslaw	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>Siuslaw R, Siuslaw R - Lake Crk</b>	Program Duration:	1995 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Whittaker Creek trap	43.98	-123.66	District/STEP	Collect, Spawn, Release
Letz Cr STEP Facility	43.82	-123.32	District/STEP	Collect, Spawn, Incubate, Rear, Release
Alsea Hatchery	44.4228	-123.5658	Hatchery	Incubate
Willamette Hatchery	43.9249	-122.8078	Hatchery	Incubate, Rear
Roaring River Hatchery	44.6244	-122.7222	Hatchery	Rear
Green Creek	42.4255	-124.3987	District/STEP	Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	542	0	0%	330,543	134,498	100%	76,288
2015	215	2	1%	267,933	131,223	100%	65,265
2016	346	1	0%	346,948	247,051	100%	96,057
2017	176	0	0%	305,461	220,900	100%	99,619
2018	330	0	0%	671,380	242,645	100%	103,962
2019	452	0	0%	526,787	130,830	100%	97,055
2020	418	4	1%	415,054	180,100	100%	99,252
<i>Average</i>	<i>354</i>	<i>1</i>	<i>0%</i>			<i>100%</i>	<i>91,071</i>
<b>Target</b>	<b>Total ≥ 200 fish</b>					<b>100%</b>	<b>100,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing	Management Area
Whittaker Cr	70,000	Smolt	6	AD	early May	Siuslaw R
Letz Cr	15,000	Smolt	6	AD	March-May	Siuslaw R
Green Cr	15,000	Smolt	6	AD	early May	Siuslaw R - Lake Crk

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	1,493	2.0%	N/A	N/A	N/A	1,493
2015	-	1,615	1.7%	N/A	N/A	N/A	1,615
2016	-	1,629	2.3%	16	N/A	N/A	1,645
2017	-	372	0.5%	24	N/A	N/A	396
2018	-	1,859	2.8%	24	N/A	N/A	1,883
2019	-	1,128	1.2%	24	N/A	N/A	1,152
2020	-	968	1.0%	8	N/A	N/A	976
<i>Average</i>		<i>1,295</i>	<i>1.7%</i>	<i>19</i>			<i>1,309</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- Incubation at Willamette hatchery ended in 2017, eggs are now transferred directly from Alsea Hatchery to Roaring River
- Fish collected for broodstock are generally live-spawned and released

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	SUM-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	South Umpqua/Cow Creek (18H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	South Umpqua	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>South Umpqua R</b>	Program Duration:	1999 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Canyon Cr Trap	42.9175	-123.2723	District/STEP	Collect
South Umpqua Falls Trap	43.0549	-122.6863	District/STEP	Collect
Rock Cr Hatchery	43.3353	-123.0014	Hatchery	Hold, Spawn, Incubate, Rear
Barrett Cr Facility	43.0156	-123.4462	District/STEP	Rear
Eastwood Elem/Deer Cr	43.2088	-123.3190	District/STEP	Acclimate, Release
Canyonville Acclimation	42.9183	-123.2728	District/STEP	Acclimate, Release
Seven Feathers Pond	42.9422	-123.2817	Dist/CCBUTI	Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	59	50	46%	156,647	129,133	100%	79,927
2015	105	19	15%	183,298	133,889	100%	60,213
2016	139	54	28%	274,424	235,033	100%	91,256
2017	120	21	15%	259,790	227,730	100%	142,186
2018	79	67	46%	229,164	204,636	100%	63,451
2019	86	71	45%	293,889	257,790	100%	166,820
2020	112	37	25%	278,599	204,352	100%	0
<i>Average</i>	<i>100</i>	<i>46</i>	<i>31%</i>			<i>100%</i>	<i>86,265</i>
<b>Target</b>	<b>160-260 fish</b>					<b>100%</b>	<b>150,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Canyonville Acclimation	85,000	Smolt	6-8	AD	April
Eastwood Elem/Deer Cr	5,000	Smolt	10	AD	March
Seven Feathers Pond	60,000	Smolt	6-8	AD	April

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	2,746	3.2%	210	N/A	N/A	2,956
2015	-	3,161	2.9%	256	N/A	N/A	3,417
2016	-	2,603	3.9%	395	N/A	N/A	2,998
2017	-	1,089	1.4%	272	N/A	N/A	1,361
2018	-	3,751	6.2%	422	N/A	N/A	4,173
2019	-	2,614	2.9%	443	N/A	N/A	3,057
2020	-	3,368	2.4%	318	N/A	N/A	3,686
<i>Average</i>		<i>2,762</i>	<i>3.3%</i>	<i>331</i>			<i>3,093</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- CMP changed smolt release from 120,000 to 150,000
- 2020 brood year production was lost due to the Archie Creek Fire

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	TEN-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Tenmile Lakes (88H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Tenmile	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>Tenmile Lk/Crk</b>	Program Duration:	2000-Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Eel Lake Trap	43.6024	-124.1768	District/STEP	Collect
Bandon Hatchery	43.1161	-124.3842	Hatchery	Fertilize, Incubate
Cole Rivers Hatchery	42.6636	-122.6836	Hatchery	Incubate, Rear
Eel Cr Acclimation	43.6025	-124.176	District/STEP	Acclimate, Release
Saunders Cr Acclimation	43.5702	-124.2047	District/STEP	Acclimate, Release
Tenmile Acclimation	43.5721	-124.2002	District/STEP	Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	55	0	0%	45,784	34,821	100%	26,003
2015	50	0	0%	61,132	41,803	100%	24,556
2016	37	0	0%	35,328	25,000	100%	21,069
2017	61	0	0%	47,856	30,092	100%	25,220
2018	60	0	0%	58,642	41,837	100%	26,680
2019	72	0	0%	91,111	39,962	100%	25,011
2020	40	0	0%	48,922	44,868	100%	27,023
<i>Average</i>	<i>54</i>	<i>0</i>	<i>0%</i>			<i>100%</i>	<i>25,080</i>
<b>Target</b>	<b>Total ≥ 20 fish</b>					<b>100%</b>	<b>25,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Eel Cr Acclimation	8,000	Smolt	6	AD	mid-April
Saunders Cr Acclimation	9,000	Smolt	6	AD	mid-April
Tenmile Acclimation	8,000	Smolt	6	AD	mid-April

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	384	3.6%	468	N/A	N/A	852
2015	-	329	1.7%	312	N/A	N/A	641
2016	-	104	0.5%	595	N/A	N/A	699
2017	-	99	0.4%	257	N/A	N/A	356
2018	-	654	2.7%	502	N/A	N/A	1,156
2019	-	225	1.1%	72	N/A	N/A	297
2020	-	589	2.3%	40	N/A	N/A	629
<i>Average</i>		<i>341</i>	<i>1.7%</i>	<i>321</i>			<i>661</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- CMP changed smolt release from 21,000 to 25,000

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	COO-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Coos River (37H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Coos	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>Coos - EF Millicoma R, Coos - WF Millicoma R, SF Coos R</b>	Program Duration:	1991-Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Various locations			District	Collect (Angler-Caught)
Millicoma Interpretive Ctr	43.4883	-124.0201	District/STEP	Collect, Hold, Spawn, Acclimate, Release
Bandon Hatchery	43.1161	-124.3842	Hatchery	Incubate
Cole Rivers Hatchery	42.6636	-122.6836	Hatchery	Rear
Hodges Cr Acclimation	43.4397	-123.9942	District/STEP	Acclimate, Release
Big Cr Acclimation	43.3906	-123.9642	District/STEP	Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	420	0	0%	301,305	234,103	100%	129,924
2015	363	0	0%	287,807	219,471	100%	126,792
2016	388	0	0%	269,960	156,667	100%	70,903
2017	303	3	1%	298,690	133,261	100%	48,685
2018	183	6	3%	241,446	172,479	100%	121,894
2019	128	0	0%	189,322	166,096	100%	125,700
2020	211	0	0%	336,697	194,749	100%	127,195
<i>Average</i>	<i>285</i>	<i>1</i>	<i>1%</i>			<i>100%</i>	<i>107,299</i>
<b>Target</b>	<b>Total ≥ 120 fish</b>					<b>100%</b>	<b>125,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing	Management Area
Millicoma Interpretive Ctr	35,000	Smolt	6	AD	mid-April	Coos-WF Millicoma
Hodges Cr Acclimation	45,000	Smolt	6	AD	mid-April	Coos-EF Millicoma
Big Cr Acclimation	45,000	Smolt	6	AD	mid-April	SF Coos

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	1,488	2.0%	1,012	N/A	N/A	2,500
2015	-	1,558	3.5%	588	N/A	N/A	2,146
2016	-	2,833	2.6%	1,024	N/A	N/A	3,857
2017	-	1,177	0.9%	567	N/A	N/A	1,744
2018	-	2,943	2.3%	189	N/A	N/A	3,132
2019	-	744	1.0%	128	N/A	N/A	872
2020	-	1,111	2.3%	211	N/A	N/A	1,322
<i>Average</i>		<i>1,693</i>	<i>2.1%</i>	<i>531</i>			<i>2,225</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- Smolt release targets in CMP were 53,000 for EF Millicoma R; 35,000 for WF Millicoma R; 37,000 for SF Coos R

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	NCQ-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	Coquille River (44H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Coquille	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>NF Coquille R</b>	Program Duration:	1981-Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
Various locations			District	Collect (Angler-Caught)
Bandon Hatchery	43.1161	-124.3842	Hatchery	Collect, Hold, Spawn, Incubate, Rear
Laverne Park	43.2583	-124.0211	District	Collect, Release
Ferry Creek	43.1161	-124.3842	Hatchery	Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	24	14	37%	79,954	61,701	100%	54,230
2015	32	13	29%	81,792	58,475	100%	43,956
2016	77	0	0%	128,208	59,380	100%	49,381
2017	71	2	3%	117,132	68,149	100%	42,080
2018	36	3	8%	97,973	68,582	100%	45,872
2019	32	3	9%	77,487	72,723	100%	46,591
2020	30	3	9%	83,369	61,740	100%	44,083
<i>Average</i>	<i>43</i>	<i>5</i>	<i>13%</i>			<i>100%</i>	<i>46,599</i>
<b>Target</b>	<b>Total ≥ 48 fish</b>					<b>100%</b>	<b>45,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Laverne Park	42,000	Smolt	5.5	AD	April
Ferry Creek	3,000	Smolt	5.5	AD	April

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014							
2015							
2016							
2017				See SCQ-StW			
2018							
2019							
2020							
<i>Average</i>							

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

**PROGRAM NOTES**

- CMP increased smolt release from 25,000 to 45,000, discontinued EF Coquille release.
- Ferry Creek release was restarted in 2017 for broodstock maintenance. Laverne Park release was reduced to 42,000 smolts

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	SCQ-StW
<b>Run:</b>	<b>Winter</b>	Stock Name:	South Fork Coquille (144H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Coquille	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>SF Coquille R</b>	Program Duration:	1992-Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
SF Coquille R, various locations			District	Collect (Angler-Caught)
Bandon Hatchery	43.1161	-124.3842	Hatchery	Hold, Spawn, Incubate, Rear
Beaver Cr	42.9395	-124.0997	District	Collect, Acclimate, Release
Woodward Cr	42.8991	-124.0752	District	Collect, Acclimate, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	53	8	13%	108,351	86,455	100%	63,252
2015	48	7	13%	107,835	94,463	100%	67,400
2016	57	9	14%	118,249	90,007	100%	74,635
2017	57	3	5%	90,124	79,605	100%	64,053
2018	71	2	3%	160,089	96,349	100%	72,738
2019	52	1	2%	115,628	102,030	100%	69,458
2020	32	8	20%	116,375	95,080	100%	66,688
<i>Average</i>	<i>53</i>	<i>5</i>	<i>10%</i>			<i>100%</i>	<i>68,318</i>
<b>Target</b>	<b>Total ≥ 64 fish</b>					<b>100%</b>	<b>70,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Beaver Cr	40,000	Smolt	5.5	AD	April
Woodward Cr	30,000	Smolt	5.5	AD	April

### HATCHERY RETURNS (Stock 44 and 144 combined)

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	3,866	3.4%	96	N/A	N/A	3,962
2015	-	2,705	2.4%	113	N/A	N/A	2,818
2016	-	4,065	4.8%	163	N/A	N/A	4,228
2017	-	2,236	1.9%	180	N/A	N/A	2,416
2018	-	3,356	3.0%	121	N/A	N/A	3,477
2019	-	2,913	2.3%	101	N/A	N/A	3,014
2020	-	3,104	2.9%	74	N/A	N/A	3,178
<i>Average</i>		<i>3,178</i>	<i>3.0%</i>	<i>121</i>			<i>3,299</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

**HATCHERY PROGRAM SUMMARY**

<b>Species:</b>	<b>Steelhead</b>	ID:	TWI-StS
<b>Run:</b>	<b>Summer</b>	Stock Name:	Nestucca (47H) & Siletz (33H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Tillamook	Broodstock Type:	Non-local
<b>Management Area/s:</b>	<b>Tillamook - Wilson R</b>	Program Duration:	1987 - Ongoing

**FACILITIES/LOCATIONS**

Name	Latitude	Longitude	Operated By	Activities
South Fork Wilson River	45.5905	-123.4663	District	Release
Hughey Creek STEP Facility	45.4689	-123.7697	District/STEP	Acclimate, Release

**BROODSTOCK, REARING, AND RELEASE**

Brood Year	Hatchery Brood	Natural Origin Brood	Average Fecundity	Viable Eggs	Ponded Fry	% Marked	Total Released
2014						100%	50,962
2015						100%	50,377
2016						100%	47,851
2017			See NES-StS			100%	50,812
2018						100%	50,156
2019						100%	49,712
2020						100%	50,014
<i>Average</i>						<i>100%</i>	<i>49,983</i>
<b>Target</b>						<b>100%</b>	<b>50,000</b>

  

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
South Fork Wilson River	40,000	Smolt	6	ADRM	April
Hughey Creek STEP Facility	10,000	Smolt	6	ADRM	April

**HATCHERY RETURNS**

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	427	1.4%	97	N/A	N/A	524
2015	-	545	1.8%	55	N/A	N/A	600
2016	-	814	2.6%	214	N/A	N/A	1,028
2017	-	927	1.8%	34	N/A	N/A	961
2018	-	744	1.5%	47	N/A	N/A	791
2019	-	221	0.5%	12	N/A	N/A	233
2020	-	363	0.7%	34	N/A	N/A	397
<i>Average</i>		<i>577</i>	<i>1.5%</i>	<i>70</i>			<i>648</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years<sup>2</sup>Based on smolt release two years prior to return year<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.**PROGRAM NOTES**

- NES-StS broodstock and rearing produces the summer steelhead smolts released in the Wilson River
- CMP changed smolt release from 30,000 to 50,000



## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	NES-StS
<b>Run:</b>	<b>Summer</b>	Stock Name:	Nestucca (47H) & Siletz (33H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Nestucca	Broodstock Type:	Non-local
<b>Management Area/s:</b>	<b>Nestucca R</b>	Program Duration:	1987 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Cedar Creek Hatchery	45.1709	-123.8018	Hatchery	Collect, Hold, Spawn, Incubate, Rear, Release
Nestucca R	45.1843	-123.9573	District	Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	47 Stock Eggs	33 Stock Eggs	% Marked	Total Released
2014	79	0	0%	108,807	46,778	100%	53,916
2015	99	0	0%	138,430	32,353	100%	61,080
2016	107	0	0%	180,806	39,315	100%	51,090
2017	74	0	0%	124,187	61,608	100%	55,871
2018	84	0	0%	147,975	43,884	100%	51,343
2019	96	0	0%	167,588	37,704	100%	56,946
2020	88	0	0%	137,471	50,577	100%	54,410
<i>Average</i>	<i>90</i>	<i>0</i>	<i>0%</i>			<i>100%</i>	<i>54,951</i>
<b>Target</b>	<b>Total ≥ 120 fish</b>					<b>100%</b>	<b>50,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Cedar Creek Hatchery	30,000	Smolt	6	ADRM	April
Nestucca R	20,000	Smolt	6	ADRM	April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	826	1.1%	411	N/A	N/A	1,237
2015	-	716	0.9%	192	N/A	N/A	908
2016	-	1,427	2.0%	328	N/A	N/A	1,755
2017	-	852	1.6%	341	N/A	N/A	1,193
2018	-	860	1.4%	309	N/A	N/A	1,169
2019	-	264	0.5%	169	N/A	N/A	433
2020	-	330	0.6%	189	N/A	N/A	519
<i>Average</i>		<i>754</i>	<i>1.2%</i>	<i>277</i>			<i>1,031</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- The Nestucca basin does not have a native population of StS; Stock 47H originated from naturally-produced Siletz River StS
- The program goal is for eggs to be approximately 2/3 from Nestucca River adults and 1/3 from Siletz River adults
- CMP changed smolt release from 70,000 to 50,000

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	SIL-StS
<b>Run:</b>	<b>Summer</b>	Stock Name:	Siletz River (33H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	Siletz	Broodstock Type:	Local, segregated
<b>Management Area/s:</b>	<b>Siletz R</b>	Program Duration:	1958 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Siletz Falls Trap	44.8627	-123.7331	District	Collect
Cedar Creek Hatchery	45.1709	-123.8018	Hatchery	Hold, Spawn
Roaring River Hatchery	44.6244	-122.7222	Hatchery	Incubate, Rear
Siletz R, multiple locations			District	Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	134	0	0%	216,997	184,403	100%	49,157
2015	98	0	0%	168,683	128,251	100%	54,689
2016	100	0	0%	191,015	142,985	100%	61,171
2017	86	0	0%	190,145	137,967	100%	58,910
2018	101	0	0%	169,051	120,675	100%	54,194
2019	69	0	0%	193,768	122,373	100%	50,034
2020	75	0	0%	183,473	129,887	100%	52,041
<i>Average</i>	<i>95</i>	<i>0</i>	<i>0%</i>			<i>100%</i>	<i>54,314</i>
<b>Target</b>	<b>Total ≥ 90 fish</b>					<b>100%</b>	<b>50,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Siletz R, multiple locations	50,000	Smolt	6	AD	early April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners	Other <sup>4</sup>	Total
2014	-	507	1.0%	1,505	N/A	N/A	2,012
2015	-	1,197	1.6%	2,925	N/A	N/A	4,122
2016	-	1,093	1.3%	3,119	N/A	N/A	4,212
2017	-	561	1.1%	1,203	N/A	N/A	1,764
2018	-	786	1.4%	1,583	N/A	N/A	2,369
2019	-	134	0.2%	589	N/A	N/A	723
2020	-	104	0.2%	546	N/A	N/A	650
<i>Average</i>		<i>626</i>	<i>1.0%</i>	<i>1,639</i>			<i>2,265</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- CMP changed smolt release from 80,000 to 50,000

## HATCHERY PROGRAM SUMMARY

<b>Species:</b>	<b>Steelhead</b>	ID:	NUM-StS
<b>Run:</b>	<b>Summer</b>	Stock Name:	Umpqua River (55H)
SMU:	Coastal	Program Type:	Harvest: Augmentation
Population Area:	North Umpqua	Broodstock Type:	Local, integrated
<b>Management Area/s:</b>	<b>North Umpqua R</b>	Program Duration:	1959 - Ongoing

### FACILITIES/LOCATIONS

Name	Latitude	Longitude	Operated By	Activities
Winchester Dam Trap	43.2847	-123.3545	District	Collect
Rock Cr Hatchery	43.3353	-123.0014	Hatchery	Collect, Spawn, Incubate, Rear, Release

### BROODSTOCK, REARING, AND RELEASE

Brood Year	Hatchery Brood	Natural Origin Brood	% Natural Origin Brood	Viable Eggs	Ponded Fry	% Marked	Total Released
2014	86			135,642	105,050	100%	75,287
2015	150			256,417	210,787	100%	10,363
2016	126			176,324	133,627	100%	74,437
2017	189			342,908	299,925	100%	114,604
2018	111			240,097	212,132	100%	23,872
2019	80			228,119	193,764	100%	118,716
<i>Average</i>	<i>124</i>		<i>~30%</i>			<i>100%</i>	<i>69,547</i>
<b>Target</b>	<b>220-280 fish</b>					<b>100%</b>	<b>165,000</b>

Release Locations	Target	Stage	Size (#/lb)	Mark/s	Timing
Rock Cr Hatchery	165,000	Smolt	6	AD	mid-April

### HATCHERY RETURNS

N/A = not available; "-" = not applicable

Return Year <sup>1</sup>	Ocean Harvest	Bay and River Harvest	Return Rate to Fisheries <sup>2</sup>	Retained at Hatchery <sup>3</sup>	Spawners <sup>4</sup>	Other <sup>5</sup>	Total
2014	-	1,232	1.3%	341	1,587	N/A	3,160
2015	-	950	1.0%	446	1,080	N/A	2,476
2016	-	1,135	1.9%	119	2,491	N/A	3,745
2017	-	692	0.7%	517	1,263	N/A	2,472
2018	-	615	2.3%	265	447	N/A	1,327
2019	-	313	0.4%	140	658	N/A	1,111
2020	-	402	0.4%	289	897	N/A	1,588
<i>Average</i>		<i>763</i>	<i>1.1%</i>	<i>302</i>	<i>1,203</i>		<i>2,268</i>

<sup>1</sup>Includes returns from multiple brood years; 2018 return year was first with majority of return from post-CMP brood years

<sup>2</sup>Based on smolt release two years prior to return year

<sup>3</sup>Fish retained at hatchery or other program collection site (for broodstock, release into lakes, donation to food banks, stream enrichment, etc.)

<sup>4</sup>Winchester Dam estimate minus fish retained at the hatchery and estimated harvest above the dam

<sup>5</sup>Fish removed at other instream traps, pre-spawn mortalities, etc.

### PROGRAM NOTES

- 1-year-old and 2-year-old smolts are released to mimic age structure of naturally produced StS
- Natural origin broodstock records for 2014-2019 are incomplete and the missing data cannot be retrieved; percent natural origin brood was approximately 30% during this period