

CHEHALIS RIVER									
2018 Pre-season Forecasted RS									
		Wild	Chinook		Coho		Chum		
			Hatchery	Total	Wild	Hatchery	Total	GH Total	
		Escapement Goal	2,103	12,910	35,638	35,364	71,002	61,144	
		Harvestable	578	10,331	28,506	1,500	30,006	21,000	
		Non-Treaty Share	1,054	2,579	7,132	33,864	40,996	40,144	
			527	1,290	3,566	16,932	20,498	20,072	

ANTICIPATED HARVEST IMPACTS

Stat Wk - DATE	AREA	# DAYS	day length	NDR		MSF	Chinook			Coho			Chehalis			
				Chin	Coho		Wild	Wild 2A/2D on Hatchery	Total	MSF	Wild	Hatchery	Total	MSI	Chum	
34	19-Aug-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
35	26-Aug-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
36	2-Sep-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
37	9-Sep-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
38	16-Sep-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
39	23-Sep-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
40	30-Sep-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
41	7-Oct-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
42	14-Oct-18	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	0	1	0	
43	21-Oct-18	1	1.00	0.03	0.02	0.56	15	15	3	18	1.00	234	233	467	1	1,347
44	28-Oct-18	2	1.00	0.03	0.02	0.56	6	6	3	9	1.00	262	260	522	1	2,844
45	4-Nov-18	1	0.75	0.03	0.02	0.56	2	2	1	3	1.00	72	72	144	1	259
46	11-Nov-18	2	0.75	0.03	0.02	1.00	3	3	1	4	1.00	115	114	229	1	281
47	18-Nov-18	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
48	25-Nov-18	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
		Total NT Net Catch		25	25	8	33	683	678	1,362	4,732	59				
		GH Marine Area 2.2		72	0.0023	21	94	213	268	480	59					
		Westport Boat Basin		0		0	0	0	43	43	0					
		FW River Sport		198	86	59	343	1,184	3,786	4,969	1,228					
		Total		270		80	437	1,396	4,096	5,492	1,287					
		Chehalis Tribe		88		0	88	308	1,386	1,695	0					
		Expected Escapement		383	25	89	558	2,388	6,160	8,548	6,019					
		Escapement Goal		9,154		1,767	10,835	29,318	25,208	54,525	36,961					
		Total Remaining Harvest		9,753		578	10,331	28,506	1,500	30,006	21,000					
		Share Remaining		-599		1,189	504	812	23,708	24,519	15,961					
		Terminal Harvest Rate		144		674	731	1,178	10,772	11,950	13,871					
		NT Chehalis River HR		0.035	0.027293	0.042	0.043	0.067	0.174	0.097	0.101					
								1,782			0.098					

HUMPTULIPS RIVER										
Chinook					Coho					Chum
Wild	Hatchery	Total	Wild	Hatchery	Total	Wild	Hatchery	Total		
2018 Pre-season Forecasted RS										
5,592	2,715	8,307	4,706	11,355	16,061	61,144				
Escapement Goal	3,573	369	6,894	400	7,294	21,000				
Harvestable	2,019	2,346	-2,188	10,955	8,767	40,144				
Non-Treaty Share	1,010	1,173	-1,094	5,478	4,384	20,072				

ANTICIPATED HARVEST IMPACTS

DATE	AREA	# DAYS	length	NDR			Chinook			Coho			Humptulips Chum	
				Chin	Coho	MSF	Wild	Wild Hump onl	Hatchery	Total	MSF	Wild		Hatchery
19-Aug-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
26-Aug-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
2-Sep-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
9-Sep-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
16-Sep-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
23-Sep-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
30-Sep-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
7-Oct-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
14-Oct-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
21-Oct-18	hump	0	0.75	0.03	0.02	1.00	1	0	1	2	12	17	1	0
28-Oct-18	hump	0	1.00	0.03	0.02	1.00	1	0	1	2	14	20	1	0
4-Nov-18	hump	0	0.75	0.03	0.02	1.00	0	0	0	0	3	4	1	0
11-Nov-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	4	6	1	0
18-Nov-18	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
48-53	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	0	1	0
Total NT Net Catch				3	0	1	4	14	34	48	0			
GH Marine Area 2.2				15	0.0000%	45	59	39	336	376				
FW River Sport				975		1,451	2,426	122	1,811	1,933			182	
Total NT Sport Catch				990		1,496	2,486	161	2,147	2,308			182	
Total NT Humptulip River Terminal Impact				992		1,497	2,489	175	2,181	2,356			182	

Expected Escapement	3,804	832	4,636	3,907	7,629	11,536	36,961
Escapement Goal	3,573	369	3,942	6,894	400	7,294	21,000
Total Remaining Harvestable	231	463	694	-2,987	7,229	4,242	15,961
Share Remaining	17	-324	-307	-1,269	3,297	2,027	13,871
Terminal Harvest Rate	0.177	0.551	0.300	3.7%	0.192	0.147	0.101

Chehalis 2A and 2D				
WDFW managed			goal	model
Chinook	share		527	295
	goal		9,753	9,154
	commercial rate	< or = 0.8%		0.23164%
	WDFW total	< or = 5.0%		2.73%
MA2.2		27%	27%	
FW		73%	73%	
Coho	share		3,566	2,079
	goal		28,506	29,318
	WDFW total	< or = 5.0%		6.7%
	MA2.2		27%	10%
FW		73%	90%	

Humptulips 2C				
WDFW managed			goal	model
Chinook	rate	< or = 5.4%		0.000%
	share		1,010	992
	goal		3,573	3,804
MA 2.2		37%	1%	
FW		63%	99%	
Coho	goal		6,894	3,906.8
	WDFW total	< or = 5.0%		3.72%
	Total	< or = 10%		17.0%
MA 2.2		18%	16.3%	
FW		82%	84%	

Grays Harbor Total				
Chinook	goal		13,326	12,957
	share (incl. CTR)		1,537	1,376
Coho	goal		35,400	33,224
	share (incl. CTR)		2,472	2,563
Pacific Salmon Treaty Abundance ER NT			6.0%	5.589%
Chum	goal		21,000	36,961
	share (incl. CTR)		20,072	6,201
MA 2.2	= to or <2%		4.00%	
FW	>98%		96%	\$ 43,214

HUMPTULIPS RIVER BASIN

	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
2018 Pre-season Forecasted RS	5,592	2,715	8,307	4,706	11,355	16,061	57,885	3,259	61,144
Escapement Goal	3,573	369	3,942	6,894	400	7,294			21,000
Total Available Harvestable	2,019	2,346	4,365	-2,188	10,955	8,767			40,144
Non-treaty Share	1,010	1,173	2,183	-1,094	5,478	4,384			20,072

Humptulips River Management Objectives

Marine Area 2.2 impact rate	37%	18 - 34%
Commercial impact rate in 2C Only	< 5.4%	< 5%
Total Impacts		

Harvest Impacts

Non-treaty Harvest		992	1,497	2,489	175	2,181	2,356	182
Marine Area 2.2 Harvest	15	45	59	39	336	376	0	
Freshwater Harvest	975	1,451	2,426	122	1,811	1,933	182	
Commercial Harvest	3	1	4	14	34	48	0	
QIN Treaty Harvest	796	386	1,182	624	1,545	2,169	5,611	
Total Humptulips Basin Harvest	1,788	1,883	3,671	799	3,726	4,525	5,793	

Expected Escapement

3,804	832	4,636	3,907	7,629	11,536	N/A
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Harvest Rates

WDFW-managed fishery Harvest Rate		17.75%	55.14%	29.97%	3.72%	19.21%	14.67%	0.30%
Total Recreational harvest rate		17.70%	55.10%	29.92%	3.42%	18.91%	14.37%	0.30%
Proportion of Rec Marine Area 2.2		1.5%	2.99%	2.39%	24.3%	15.67%	16.27%	See above
Proportion of Rec Freshwater		98.52%	97.01%	97.61%	75.70%	84.33%	83.73%	100.00%
Commercial harvest rate in 2C Only		0.00%						
Commercial harvest rate		0.05%	0.05%	0.05%	0.30%	0.30%	0.30%	0.00%
QIN Treaty Harvest Rate		14.23%	14.23%	14.23%	13.26%	13.61%	13.51%	9.18%
Total Harvest Rate		31.98%	69.37%	44.20%	16.98%	32.81%	28.17%	9.48%

GRAYS HARBOR TOTAL

	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
2018 Pre-season Forecasted RS	16,399	4,818	21,217	40,344	46,719	87,063	57,885	3,259	61,144
Escapement Goal	13,326	947	14,273	35,400	1,900	37,300			21,000
Total Available Harvestable	3,073	3,871	6,944	4,944	44,819	49,763			40,144
Non-treaty Share	1,537	1,936	3,472	2,472	22,410	24,882			20,072

Management Objectives

Marine Area 2.2 impact rate	20	< 2% total
Commercial impact rate		
Total Impacts		

Harvest Impacts

	WDFW Managed Harvest			QIN Treaty Harvest			Total GH Harvest		
	Marine Area 2.2 Harvest	Freshwater Harvest	Commercial Harvest	Chehalis Tribe	Total NT - Harvest	QIN Treaty Harvest	Total GH Harvest	QIN Treaty Harvest	Total GH Harvest
	1,287	1,586	2,873	2,255	6,955	9,210	6,201	59	
Marine Area 2.2 Harvest	87	66	153	252	647	899	1,411	1,411	
Freshwater Harvest	1,173	1,510	2,683	1,305	5,596	6,902	4,732	4,732	
Commercial Harvest	28	9	37	697	712	1,410	0	0	
Chehalis Tribe	88	0	88	308	1,386	1,695	6,201	6,201	
Total NT - Harvest	1,376	1,586	2,961	2,563	8,341	10,904	17,982	17,982	
QIN Treaty Harvest	2,066	633	2,699	4,557	5,541	10,098	24,183	24,183	
Total GH Harvest	3,442	2,219	5,661	7,120	13,882	21,002	24,183	24,183	

Expected Escapement

Expected Escapement	12,957	2,599	15,556	33,224	32,837	66,061	36,961
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Harvest Rates

	Non-treaty Harvest Rate		Proportion of Rec Marine Area 2.2		Freshwater harvest rate		Commercial harvest rate		QIN Treaty Harvest Rate		Total GH Harvest Rate	
	7.85%	32.91%	13.54%	5.59%	14.89%	10.58%	10.14%	4.00%	12.60%	13.15%	12.72%	20.99%
Marine Area 2.2 harvest rate	0.53%	1.37%	0.72%	0.62%	1.38%	1.03%	0.10%					
Freshwater harvest rate	7.15%	31.34%	12.65%	3.24%	11.98%	7.93%	2.31%					
Commercial harvest rate	0.17%	0.19%	0.17%	1.73%	1.52%	1.62%	7.74%					
QIN Treaty Harvest Rate	12.60%	13.15%	12.72%	11.29%	11.86%	11.60%	29.41%					
Total GH Harvest Rate	20.99%	46.06%	26.68%	17.65%	29.71%	24.12%	39.55%					

Cost Benefit Analysis and Budget Decisions: Salmon Fishery Activities

The Director will provide a report to the Commission that includes all the available information relative to the costs of providing and managing sport and commercial fisheries including enforcement, monitoring, and hatchery production costs. The Director will include in his report a breakdown of the revenue sources that support the activities (GFS, federal, local, DJ). Within existing resources, the Director will also report to the Commission the Department's best estimates of the economic benefits and license revenues that are derived by the state from each major salmon fishery, e.g. Puget Sound, Willapa Bay, and the Columbia River.

It is the policy of the Department that consideration be given to the comparable economic and agency revenue benefits of respective fisheries as various cuts, fee increases, and policy changes are proposed and discussed by budget decision-makers.

Promote Selective Fisheries

The Commission adopted policies that support hatchery and harvest reform and realigned management in a number of specific fisheries to promote more selective harvest practices. The Director will ensure that the Department's biennial budget submission includes elements that maintain and advance selective fisheries and hatchery reform measures.

Equitable Sharing of the Costs of Management

In light of continued reduction of GF-S, the Commission directs the Department to seek means to recoup the costs of hatchery production and management of commercial fisheries from the participants in the commercial fisheries or reduce agency activities in support of these fisheries.

The cost of managing and maintaining commercial fisheries has long been funded with general fund revenue. Commercial licenses provide very limited revenues to offset management costs -- roughly 4% of the costs of these fisheries. Unlike sport fishing license revenue, funds from the sale of commercial salmon licenses largely go directly to the state treasury. The sizable reduction in general fund revenue that the Department has experienced over the last two biennia has left it without the financial means to continue providing the existing commercial fisheries the hatchery fish that sustain them. The Director will include in his legislative requests submission a proposal that is designed to raise new revenues from commercial license holders that will help offset the costs of providing commercial salmon fishing opportunities.

Commission Budget Policy 2015-17

Reduction in General Funds and Increase in License Fees

The Department's share of General Funds - State (GF-S) has declined dramatically over the past five years, decreasing from \$110 million in 2008 to \$61 million in 2014. Once again this year, the Department was directed to prepare and submit a budget with additional GF-S reductions of 15%, or roughly \$11 million. The cuts presented in that submission are distributed over the activities that are largely supported with GF-S: enforcement, habitat protection, native fish recovery, and fish management activities associated with commercial fisheries.

Over this same period, the share of Department costs supported with sport fishing license revenues has grown. License fees were increased three years ago and now represent the largest single portion of funding. The Department now faces increased costs of maintaining existing services. In addition, we see the potential of additional cuts in future biennia to allow the state to meet its K-12 educational obligations under the McCleary decision. The Department also faces the prospects of additional reductions in federal funding that support hatchery production and critical fishery sampling and monitoring activities. If it is to maintain and expand opportunity for recreational fishing, the Department must pursue additional fee increases.

Approach for Sport Fishing License Fee Increases

The Commission recognizes the benefits of sport fishing across the state in generating funding for agency activities well beyond fishery management cost. Deposited in the Wildlife Account, user fees support such things as native fish recovery, fish production, and a variety of costs associated with management of the fisheries.

It is the policy of the Department to ensure that recreational license fees are used for the benefit of the sport fishery. To be successful, the Department is committed to working closely with the sport fishing community to define the new fee structure and to identify specifically the use of the new revenue created from the new fees.

The Commission recognizes that increased fees can be counterproductive. Increased fees can lead to declines in sales. To counteract that response, the Department must develop specific proposals that result in increased sport fishing opportunity.

The Commission believes that it would be beneficial to look for ways to make practical commitments to expand sport fishing opportunities at the same time that it pursues a course during this Legislative Session that avoids the need for additional license increases in the next two biennia.