

2020 Grays Harbor Fall Salmon Management Summary Tables

Model 4 – NT Comm 2A/D 1,3 Wk 43-44, 2C no days, FW 1 fish Chehalis (FRAM 2031A)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,478	26,351	69,830	30,324	2,325	32,649
Total Available Harvestable	9,753	578	10,331	28,506	1,500	30,006			21,000
Non-treaty Share	1,391	1,611	3,002	14,972	24,851	39,824			11,649
	696	806	1,501	7,486	12,426	19,912			5,825
Chehalis River Management Objectives									
Proportion of Rec Marine Area 2.2	<27%			<27%			< 2% total		
Commercial Impact Rate in 2A-D Only	< 0.8%								
Total WDFW-managed fishery	=<5%			=<5%					
Harvest Impacts									
WDFW-managed fishery Harvest	258	87	345	4,406	2,620	7,026			2,805
Marine Area 2.2 Harvest	71	30	101	608	390	999			26
Freshwater Harvest	166	50	216	3,184	1,857	5,041			215
Commercial Harvest (Area 2A, 2D)	21	7	28	614	372	987			2,564
Chehalis Tribal Harvest	117	0	117	324	1,062	1,386			0
QIN Treaty Harvest	1,472	290	1,761	6,948	1,356	8,304			5,076
Total Chehalis Basin Harvest	1,846	377	2,223	11,678	5,038	16,716			7,882
Expected Escapement	9,298	1,812	11,110	31,800	21,314	53,114			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	2.3%	3.99%	2.59%	10.13%	9.94%	10.06%			8.59%
Total Recreational harvest rate	2.12%	3.66%	2.38%	8.72%	8.53%	8.65%			0.74%
Proportion of Rec Marine Area 2.2	30.1%	37.56%	31.98%	16.0%	17.36%	16.53%			10.59%
Proportion of Rec Freshwater	69.91%	62.44%	68.02%	83.96%	82.64%	83.47%			89.41%
Commercial Impact Rate in 2A-D only	0.19%								
Commercial harvest rate	0.19%	0.33%	0.21%	1.41%	1.41%	1.41%			7.85%
Chehalis Tribal harvest rate	1.05%	0.00%	0.88%	0.74%	4.03%	1.98%			0.00%
QIN Treaty Harvest Rate	13.20%	13.24%	13.21%	15.98%	5.15%	11.89%			15.55%
Total Chehalis Basin Harvest Rate	16.57%	17.24%	16.68%	26.86%	19.12%	23.94%			24.14%
HUMPTULIPS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	3,857	4,683	8,540	3,630	11,065	14,695	30,324	2,325	32,649
Total Available Harvestable	3,573	369	3,942	6,894	400	7,294			21,000
Non-treaty Share	284	4,314	4,598	-3,264	10,665	7,401			11,649
	142	2,157	2,299	-1,632	5,332	3,700			5,825
Humptulips River Management Objectives									
Marine Area 2.2 impact rate	37%			18 - 34%					
Commercial impact rate in 2C Only	< 5.4%								
Total Impacts				< 5%					
Harvest Impacts									
WDFW-managed fishery Harvest	117	2,009	2,126	84	1,440	1,524			37
Marine Area 2.2 Harvest	6	89	95	9	115	124			0
Freshwater Harvest	110	1,918	2,028	67	1,301	1,368			37
Commercial Harvest	1	2	3	8	24	33			0
QIN Treaty Harvest	670	813	1,483	1,201	1,599	2,800			718
Total Humptulips Basin Harvest	787	2,821	3,608	1,285	3,039	4,324			755
Expected Escapement	3,070	1,862	4,932	2,345	8,026	10,371			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	3.04%	42.89%	24.89%	2.31%	13.02%	10.37%			0.11%
Total Recreational harvest rate	3.02%	42.86%	24.86%	2.09%	12.79%	10.15%			0.11%
Proportion of Rec Marine Area 2.2	5.5%	4.41%	4.47%	11.6%	8.11%	8.29%			See above
Proportion of Rec Freshwater	94.54%	95.59%	95.53%	88.36%	91.89%	91.71%			100.00%
Commercial harvest rate in 2C Only	0.00%								
Commercial harvest rate	0.02%	0.04%	0.03%	0.22%	0.22%	0.22%			0.00%
QIN Treaty Harvest Rate	17.37%	17.35%	17.36%	33.08%	14.45%	19.05%			2.20%
Total Harvest Rate	20.41%	60.24%	42.25%	35.40%	27.47%	29.43%			2.31%

2020 Grays Harbor Fall Salmon Management Summary Tables Cont'd

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GRAYS HARBOR TOTAL									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	15,001	6,872	21,873	47,108	37,416	84,525	30,324	2,325	32,649
Total Available Harvestable	13,326	947	14,273	35,400	1,900	37,300			21,000
Non-treaty Share	1,675	5,925	7,600	11,708	35,516	47,225			11,649
	838	2,963	3,800	5,854	17,758	23,612			5,825
Management Objectives									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate									24
Total Impacts									
Harvest Impacts									
WDFW-managed fishery Harvest	375	2,096	2,471	4,490	4,060	8,550	2,842		
Marine Area 2.2 Harvest	78	119	196	617	505	1,122	26		
Freshwater Harvest	276	1,968	2,244	3,251	3,158	6,409	252		
Commercial Harvest	22	9	31	622	397	1,019	2,564		
Chehalis Tribe	117	0	117	324	1,062	1,386	0		
Total NT - Harvest	492	2,096	2,588	4,814	5,122	9,936	2,842		
QIN Treaty Harvest	2,141	1,102	3,244	8,149	2,955	11,104	5,795		
Total GH Harvest	2,633	3,199	5,832	12,963	8,077	21,040	8,637		
Expected Escapement	12,368	3,673	16,041	34,146	29,339	63,485	24,012		
	958								
Harvest Rates									
Non-treaty Harvest Rate	2.50%	30.50%	11.30%	9.53%	10.85%	10.12%	8.70%		
Proportion of Rec Marine Area 2.2							9.19%		
Marine Area 2.2 harvest rate	0.52%	1.73%	0.90%	1.31%	1.35%	1.33%	0.08%		
Freshwater harvest rate	1.84%	28.65%	10.26%	6.90%	8.44%	7.58%	0.77%		
Commercial harvest rate	0.15%	0.13%	0.14%	1.32%	1.06%	1.21%	7.85%		
QIN Treaty Harvest Rate	14.28%	16.04%	14.83%	17.30%	7.90%	13.14%	17.75%		
Total GH Harvest Rate	17.55%	46.54%	26.66%	27.52%	21.59%	24.89%	26.45%		

CHEHALIS RIVER									
	Chinook			Coho			Chum		
	Wild	Hatchery	Total	Wild	Hatchery	Total	GH Total		
Escapement Goal	11,144	2,189	13,333	43,478	26,351	69,830	32,649		
Harvestable	9,753	578	10,331	28,506	1,500	30,006	21,000		
Non-Treaty Share	1,391	1,611	3,002	14,972	24,851	39,824	11,649		
	696	806	1,501	7,486	12,426	19,912	5,825		

CHEHALIS RIVER

ANTICIPATED HARVEST IMPACTS

Stat Wk - DATE	AREA	# DAYS	day length	NDR			MSF	Chinook				MSF	Coho			MSF	Chehalis Chum	
				Chin	Coho			Wild	Wild 2A/2D	onl	Hatchery		Total	Wild	Hatchery		Total	
34 16-Aug-20	all	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
35 23-Aug-20	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
36 30-Aug-20	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
37 6-Sep-20	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
38 13-Sep-20	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
39 20-Sep-20	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
40 27-Sep-20	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	0	1	0	
41 4-Oct-20	cheh	0	1.00	0.03	0.02	0.31	0	0	0	0	1.00	0	0	0	0	1	0	
42 11-Oct-20	cheh	0	1.00	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	0	1	0	
43 18-Oct-20	cheh	1	1.00	0.03	0.02	0.56	18	18	4	22	1.00	281	170	451	1	815		
44 25-Oct-20	cheh	3	1.00	0.03	0.02	0.56	3	3	4	7	1.00	333	202	536	1	1,750		
45 1-Nov-20	cheh	0	0.75	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	1	0		
46 8-Nov-20	cheh	0	0.75	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	1	0		
47 15-Nov-20	cheh	0	1.00	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	1	0		
48 22-Nov-20		0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0		
		4		Total NT Net Catch			21	21	7	28		614	372	987		2,564		
2011-2013				GH Marine Area 2.2			71	0.0019	30	101		608	362	970		26		
1973-2013				Westport Boat Basin			0		0	0		0	29	29		0		
1991-2013				FW River Sport			166	89	50	305		3,184	1,857	5,041		215		
							237		80	406		3,792	2,248	6,040		241		
				Chehalis Tribe			117		0	117		324	1,062	1,386		0		
							375	21	87	551		4,730	3,682	8,412		2,805		
				Expected Escapement			9,298		1,812	11,021		31,800	21,314	53,114		24,012		
				Escapement Goal			9,753		578	10,331		28,506	1,500	30,006		21,000		
				Total Remaining Harvest			-455		1,234	690		3,294	19,814	23,108		3,012		
				Share Remaining			321		718	950		2,756	8,744	11,500		2,982		
				Terminal Harvest Rate			0.034	0.023134	0.040	0.041		0.109	0.140	0.101		0.087		
				NT Chehalis River HR								2,174				0.086		

2020 Grays Harbor Fall Salmon Management Summary Tables Cont'd

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HUMPTULIPS RIVER									
	Chinook			Coho			Chum		
	Wild	Hatchery	Total	Wild	Hatchery	Total			
Escapement Goal	3,857	4,683	8,540	3,630	11,065	14,695	32,649		
Harvestable	284	4,314	4,598	6,894	400	7,294	21,000		
Non-Treaty Share	142	2,157	2,299	-1,632	5,332	3,700	5,825		

HUMPTULIPS RIVER ANTICIPATED HARVEST IMPACTS

DATE	AREA	# DAYS	length	NDK			Chinook					Coho			Hump Chum			
				Chin	Coho	MSF	Wild	Wild	Hump	onl	Hatchery	Total	MSF	Wild		Hatchery	Total	
34	16-Aug-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
35	23-Aug-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
36	30-Aug-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
37	6-Sep-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
38	13-Sep-20	hump	0	0.75	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
39	20-Sep-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
40	27-Sep-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
41	4-Oct-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
42	11-Oct-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
43	18-Oct-20	hump	0	0.75	0.03	0.02	1.00	1	0	1	2	1.00	4	12	16	1	0	
44	25-Oct-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	4	12	16	1	0
45	1-Nov-20	hump	0	0.75	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
46	8-Nov-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
47	15-Nov-20	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
48	48-53	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	0	1.00	0	0	0	1	0
		0		Total NT Net Catch				1	0	2	3		8	24	33		0	
				GH Marine Area 2.2				6	0.0000%	89	95		9	115	124			
				FW River Sport				110		1,918	2,028		67	1,301	1,368		37	
				Total NT Sport Catch				116		2,007	2,123		76	1,416	1,492		37	
				Total NT Humpulip River Terminal Impact				117		2,009	2,126		84	1,440	1,524		37	
				Expected Escapement				3,070		1,862	4,933		2,345	8,026	10,371		24,012	
				Escapement Goal				3,573		369	3,942		6,894	400	7,294		21,000	
				Total Remaining Harvestable				-503		1,493	991		-4,549	7,626	3,077		3,012	
				Share Remaining				25		148	173		-1,716	3,892	2,176		2,982	
				Terminal Harvest Rate				3.04%		0.429	0.249		2.3%	0.130	0.104		0.087	

Humptulips 2C			
WDFW managed	goal	model	
Chinook	rate < or = 5.4%	0.0%	
	share 142	117	
	goal 3,573	3,070	
MA 2.2	22%	4%	
FW	78%	96%	
Coho	goal 6,894	2,345	
	WDFW total < or = 5.0%	2.31%	
	Total < or = 10%	35.4%	
	MA 2.2	18%	8%
FW	82%	92%	

Chehalis 2A and 2D			
WDFW managed	goal	model	
Chinook	share 696	258	
	goal 9,753	9,298	
	commercial rate < or = 0.8%	0.19%	
WDFW total < or = 5.0%	2.31%		
MA2.2	27%	25%	
FW	73%	75%	
Coho	share 7,486	4,406	
	goal 28,506	31,800	
	WDFW total < or = 5.0%	10.9%	
MA2.2	27%	17%	
FW	73%	83%	

Grays Harbor Total			
Chinook	goal	13,326	12,368
	share (incl. CTR)	838	492
Coho	goal	35,400	34,146
	share (incl. CTR)	5,854	4,814
			9.5%
Chum	goal	21,000	24,012
	share (incl. CTR)	5,825	2,842
MA 2.2	= to or <2%	9.19%	
FW	>98%	91%	\$ 35,262