

2021 Grays Harbor Fall Non-Treaty Terminal Area Planning Model

Model 3B - NT Comm 2A/D 3-Wk 44, 2-Wk 45, 2C 4-Wk 43, 2-44; FW 1 fish Chehalis Tue-Sat only (FRAM 2124a)

CHEHALIS RIVER																			
Chinook																			
Coho																			
Chum																			
GH Total																			
Wild Hatchery Total																			
Escapement Goal																			
Harvestable																			
Non-Treaty Share																			
CHEHALIS RIVER																			
ANTICIPATED HARVEST IMPACTS																			
Chinook																			
Coho																			
Chehalis Chum																			
Stat	Wk - DATE	AREA	# DAYS	day length	NDR Chin	NDR Coho	MSF	Wild	Wild 2A/2D onl	Hatchery	Total	MSF	Wild	Hatchery	Total	MSF	Chum		
Chinook	34	15-Aug-21	all	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
	35	22-Aug-21	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
	36	29-Aug-21	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
	37	5-Sep-21	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
	38	12-Sep-21	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
	39	19-Sep-21	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
Coho	40	26-Sep-21	cheh	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0	
	41	3-Oct-21	cheh	0	1.00	0.03	0.02	0.31	0	0	0	0	1.00	0	0	0	1	0	
	42	10-Oct-21	cheh	0	1.00	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	1	0	
	43	17-Oct-21	cheh	0	1.00	0.03	0.02	0.56	8	0	1	10	1.00	3	1	4	1	0	
Chum	44	24-Oct-21	cheh	3	1.00	0.03	0.02	0.56	3	3	4	7	1.00	316	170	486	1	2,389	
	45	31-Oct-21	cheh	2	0.75	0.03	0.02	0.56	0	0	0	0	1.00	143	77	221	1	282	
Late Coho	46	7-Nov-21	cheh	0	0.75	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	1	0	
	47	14-Nov-21	cheh	0	1.00	0.03	0.02	0.56	0	0	0	0	1.00	0	0	0	1	0	
	48	21-Nov-21		0	1.00	0.03	0.02	1.00	0										
				5		Total NT Net Catch			11	3	5	17		462	249	711		2,671	
12-hour days	2011-2013					GH Marine Area 2.2		43	0.0002		18	61		229	122	351		27	
24-hour days	1973-2013					Westport Boat Basin		0			0	0		0	8	8		0	
24-hour days	1991-2013					FW River Sport		155			41	196		1,147	1,792	2,939		614	
								198		59	257		1,376	1,922	3,298		641		
									87										
							Chehalis Tribe	92			0	92		260	869	1,129		0	
								301	3	64	366		2,099	3,040	5,138		3,311		
							Expected Escapement	9,543		1,625		11,168		34,317		50,787		34,893	
							Escapement Goal	9,753		578		10,331		28,506		1,500		30,006	
							Total Remaining Harvest	-210		1,047		837		5,811		14,970		20,781	
							Share Remaining	248		578		826		3,924		7,129		11,053	
							Terminal Harvest Rate	0.028	0.019253	0.035		0.029		0.045		0.139		0.064	
							NT Chehalis River HR							2,028				0.078	

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HUMPTULIPS RIVER

		Chinook			Coho			Chum
		Wild	Hatchery	Total	Wild	Hatchery	Total	
		4,668	5,696	10,364	2,414	7,197	9,610	42,248
	Escapement Goal	3,573	369	3,942	6,894	400	7,294	21,000
	Harvestable	1,095	5,327	6,422	-4,480	6,797	2,316	21,248
	Non-Treaty Share	548	2,664	3,211	-2,240	3,398	1,158	10,624

HUMPTULIPS RIVER

ANTICIPATED HARVEST IMPACTS

DATE	AREA	# DAYS	length	Chinook			Coho			Humptulips						
				Chin	Coho	MSF	Wild	Hatchery	Total	MSF	Wild	Hatchery	Total	Chum		
15-Aug-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
22-Aug-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
29-Aug-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
5-Sep-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
12-Sep-21	hump	0	0.75	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
19-Sep-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
26-Sep-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
3-Oct-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
10-Oct-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
17-Oct-21	hump	4	1.00	0.03	0.02	1.00	20	20	25	45	1.00	9	27	37	1	109
24-Oct-21	hump	2	1.00	0.03	0.02	1.00	1	1	2	2	1.00	6	17	23	1	36
31-Oct-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	1	4	5	1	0
7-Nov-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
14-Nov-21	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
48-53	hump	0	1.00	0.03	0.02	1.00	0	0	0	0	1.00	0	0	0	1	0
		6		Total NT Net Catch			21	21	26	48		16	48	64		145
				GH Marine Area 2.2			8	0.4514%	119	127		12	126	138		
				FW River Sport			134		2,166	2,299		45	939	984		133
				Total NT Sport Catch			142		2,285	2,427		57	1,066	1,122		133
				Total NT Humptulip River Terminal Impact			163		2,311	2,474		73	1,114	1,187		278
				Expected Escapement			3,891		2,636	6,527		1,876	4,628	6,504		34,893
				Escapement Goal			3,573		369	3,942		6,894	400	7,294		21,000
				Total Remaining Harvestable			318		2,267	2,585		-5,018	4,228	-790		13,893
				Share Remaining			384		352	737		-2,313	2,284	-28		7,034
				Terminal Harvest Rate			3.49%		0.406	0.239		3.0%	0.155	0.123		0.085

Chehalis 2A and 2D			
WDFW managed		goal	model
Chinook	share	550	209
	goal	9,753	9,543
	commercial rate	< or = 0.8%	0.02%
	WDFW total	< or = 5.0%	1.93%
	MA2.2	27%	24%
	FW	73%	76%
Coho	share	6,023	1,838
	goal	28,506	34,317
	WDFW total	< or = 5.0%	4.5%
	MA2.2	27%	11%
	FW	73%	89%

Humptulips 2C			
WDFW managed		goal	model
Chinook	rate	< or = 1.2%	0.5%
	share	548	163
	goal	3,573	3,891
	MA 2.2	22%	5%
	FW	78%	95%
Coho	goal	6,894	1,876
	WDFW total	< or = 5.0%	3.01%
	Total	< or = 10%	22.3%
	MA 2.2	18%	12%
	FW	82%	88%

Grays Harbor Total			
Chinook	goal	13,326	13,435
	share (incl. CTCR)	1,097	464
Coho	goal	35,400	36,193
	share (incl. CTCR)	3,783	2,171
			4.4%
Chum	goal	21,000	34,893
	share (incl. CTCR)	10,624	3,590
MA 2.2	= to or <2%	3.46%	
FW	>98%	97%	\$ 32,475

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Fishery Description		Dates	Bag Limit
Sport			
Marine 2.2			
	Area 2D only	Oct 1-Nov 30	Tue-Saturday, 1 Adult bag: release Chinook (east of 2B only)
	Area 2C only	Aug 1-Sept 23	1 Adult bag: release wild Chinook and wild Coho
	Chehalis River Mouth to Hwy 6	No spring Chinook fishery	
	Chehalis River Mouth to South Elma Bridge	Aug 1-Sept 23	: Release adult salmon
	Chehalis river mouth to Hwy 107 Bridge	Oct 1-Dec 31	Tue-Saturday, 1 Adult bag: release Chinook
	Hwy 107 Bridge to South Elma Bridge	Oct 1-Dec 31	1 adult bag: Release Chinook and wild coho
	Chehalis River South Elma Bridge up to High Bridge	Oct 1-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Hwy 6 to high bridge		
	Hoquiam	Oct 1-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Wishkah	Oct 1-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Wynoochee	Oct 1-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Satsop	Oct 1-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Black River	Oct 1-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Skookumchuck	Oct 16-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Newaukum	Oct 16-Dec 31	1 Adult bag: Release Chinook and wild coho
		0	0
	Elk and Johns	Oct. 1-Dec 31	1 Adult bag: Release Chinook and wild coho
			0
	Humptulips River FW	Sept. 1-Sept 30	2 Adult bag: release wild Chinook and wild Coho
		Oct. 1-Oct 31	1 Adult bag: 1 may be Chinook, release wild Chinook and wild Coho
		Nov 1-Dec 31	1 Adult bag: release Chinook and wild Coho
	Area 2A/2D Week 44	3	12 hr days, live boxes, short soak, release wild Chinook
	Area 2A/2D Week 45	2	12 hr days, live boxes, short soak, release wild Chinook
	Area 2C Week 43	4	24 hr days, live boxes
	Area 2C Week 44	2	24 hr days, live boxes

2021 Grays Harbor Fall Salmon Management Summary Table

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CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	10,852	1,862	12,714	40,552	21,837	62,389	30,324	2,325	42,248
Total Available Harvestable	9,753	578	10,331	28,506	1,500	30,006			21,000
Non-treaty Share	1,099	1,284	2,383	12,046	20,337	32,383			21,248
	550	642	1,192	6,023	10,168	16,191			10,624
Chehalis River Management Objectives									
Proportion of Rec Marine Area 2.2	<27%			<27%					
Commercial Impact Rate in 2A-D Only	< 0.8%								
Total WDFW-managed fishery				=<5%					
Harvest Impacts									
WDFW-managed fishery Harvest	209	64	273	1,838	2,171	4,009			3,311
Marine Area 2.2 Harvest	43	18	61	229	129	358			27
Freshwater Harvest	155	41	196	1,147	1,792	2,939			614
Commercial Harvest (Area 2A, 2D)	11	5	17	462	249	711			2,671
Chehalis Tribal Harvest	92	0	92	260	869	1,129			0
QIN Treaty Harvest	1,007	173	1,180	4,136	2,327	6,463			2,907
Total Chehalis Basin Harvest	1,308	237	1,546	6,235	5,367	11,601			6,218
Expected Escapement	9,544	1,625	11,168	34,317	16,470	50,788			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	1.9%	3.46%	2.15%	4.53%	9.94%	6.43%			7.84%
Total Recreational harvest rate	1.82%	3.17%	2.02%	3.39%	8.80%	5.29%			1.52%
Proportion of Rec Marine Area 2.2	21.55%	30.37%	23.58%	16.65%	6.73%	10.87%			4.17%
Proportion of Rec Freshwater	78.45%	69.63%	76.42%	83.35%	93.27%	89.13%			95.83%
Commercial Impact Rate in 2A-D only	0.02%								
Commercial harvest rate	0.10%	0.29%	0.13%	1.14%	1.14%	1.14%			6.32%
Chehalis Tribal harvest rate	0.85%	0.00%	0.73%	0.64%	3.98%	1.81%			0.00%
QIN Treaty Harvest Rate	9.28%	9.29%	9.28%	10.20%	10.66%	10.36%			6.88%
Total Chehalis Basin Harvest Rate	12.05%	12.75%	12.16%	15.37%	24.58%	18.60%			14.72%

2021 Grays Harbor Fall Salmon Management Summary Table

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HUMPTULIPS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	4,668	5,696	10,364	2,414	7,197	9,610	30,324	2,325	42,248
Total Available Harvestable	3,573	369	3,942	6,894	400	7,294	21,000		
Non-treaty Share	1,095	5,327	6,422	-4,480	6,797	2,316	21,248		
	548	2,664	3,211	-2,240	3,398	1,158	10,624		
Humptulips River Management Objectives									
Marine Area 2.2 impact rate	37%			18 - 34%					
Commercial impact rate in 2C Only									
Total Impacts				< 5%					
Harvest Impacts									
WDFW-managed fishery Harvest	163	2,311	2,474	73	1,114	1,187	278		
Marine Area 2.2 Harvest	8	119	127	12	126	138	0		
Freshwater Harvest	134	2,166	2,299	45	939	984	133		
Commercial Harvest	21	26	48	16	48	64	145		
QIN Treaty Harvest	614	749	1,363	465	1,455	1,920	858		
Total Humptulips Basin Harvest	777	3,060	3,837	538	2,569	3,107	1,136		
Expected Escapement	3,891	2,636	6,527	1,876	4,628	6,504	N/A		
Harvest Rates									
WDFW-managed fishery Harvest Rate	3.49%	40.57%	23.87%	3.01%	15.48%	12.35%	0.66%		
Total Recreational harvest rate	3.04%	40.11%	23.41%	2.34%	14.81%	11.68%	0.32%		
Proportion of Rec Marine Area 2.2	5.69%	5.22%	5.25%	21.09%	11.84%	12.31%	See above		
Proportion of Rec Freshwater	94.31%	94.78%	94.75%	78.91%	88.16%	87.69%	100.00%		
Commercial harvest rate in 2C Only	0.45%								
Commercial harvest rate	0.45%	0.46%	0.46%	0.67%	0.67%	0.67%	0.34%		
QIN Treaty Harvest Rate	13.15%	13.15%	13.15%	19.26%	20.22%	19.98%	2.03%		
Total Harvest Rate	16.65%	53.72%	37.02%	22.28%	35.70%	32.32%	2.69%		

2021 Grays Harbor Fall Salmon Management Summary Table

Model 3B - NT Comm 2A/D 3-Wk 44, 2-Wk 45, 2C 4-Wk 43, 2-44; FW 1 fish Chehalis Tue-Sat only (FRAM 2124a)

GRAYS HARBOR TOTAL									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	15,520	7,558	23,078	42,966	29,033	71,999	30,324	2,325	42,248
Total Available Harvestable	13,326	947	14,273	35,400	1,900	37,300			21,000
Non-treaty Share	2,194	6,611	8,805	7,566	27,133	34,699			21,248
	1,097	3,306	4,403	3,783	13,567	17,350			10,624
Management Objectives									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate									
Total Impacts									
Harvest Impacts									
WDFW-managed fishery Harvest	372	2,376	2,748	1,911	3,284	5,195			3,590
Marine Area 2.2 Harvest	51	137	188	241	255	497			27
Freshwater Harvest	289	2,207	2,495	1,192	2,732	3,923			747
Commercial Harvest	32	32	64	478	297	775			2,816
<i>Chehalis Tribe</i>	92	0	92	260	869	1,129			0
<i>Total NT - Harvest</i>	464	2,376	2,840	2,171	4,153	6,325			3,590
QIN Treaty Harvest	1,621	922	2,543	4,601	3,782	8,383			3,765
Total GH Harvest	2,085	3,298	5,383	6,772	7,935	14,708			7,355
Expected Escapement	13,435	4,260	17,695	36,193	21,098	57,291			34,893
	-109								
Harvest Rates									
Non-treaty Harvest Rate	2.40%	31.43%	11.91%	4.45%	11.31%	7.22%			8.50%
Proportion of Rec Marine Area 2.2									3.46%
Marine Area 2.2 harvest rate	0.33%	1.82%	0.81%	0.56%	0.88%	0.69%			0.06%
Freshwater harvest rate	1.86%	29.20%	10.81%	2.77%	9.41%	5.45%			1.77%
Commercial harvest rate	0.21%	0.42%	0.28%	1.11%	1.02%	1.08%			6.66%
QIN Treaty Harvest Rate	10.44%	12.20%	11.02%	10.71%	13.03%	11.64%			8.91%
Total GH Harvest Rate	13.44%	43.63%	23.32%	15.76%	27.33%	20.43%			17.41%