

2020 Grays Harbor Fall Salmon Management Summary Tables

Model A Base – 2020 Forecasts with 2019 fisheries (NOF2 Coho run 2019b)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,313	26,666	69,979	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	14,807	25,166	39,973			11,649
	696	806	1,501	7,404	12,583	19,987			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	551	179	730	7,438	4,766	12,204			6,280
Marine Area 2.2 Harvest	168	76	244	1,163	838	2,001			35
Freshwater Harvest	257	75	332	4,702	2,959	7,661			653
Commercial Harvest (Area 2A, 2D)	126	29	155	1,573	969	2,542			5,592
Chehalis Tribal Harvest	117	0	117	320	1,075	1,395			0
QIN Treaty Harvest	2,231	438	2,669	9,013	5,549	14,562			6,829
Total Chehalis Basin Harvest	2,899	617	3,516	16,771	11,390	28,161			13,109
Expected Escapement	8,245	1,572	9,817	26,542	15,276	41,818			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	4.9%	8.18%	5.47%	17.17%	17.87%	17.44%			19.23%
Total Recreational harvest rate	3.81%	6.86%	4.31%	13.54%	14.24%	13.81%			2.11%
Proportion of Rec Marine Area 2.2	39.5%	50.31%	42.34%	19.8%	22.07%	20.71%			5.05%
Proportion of Rec Freshwater	60.48%	49.69%	57.66%	80.17%	77.93%	79.29%			94.95%
Commercial Impact Rate in 2A-D only	0.68%								
Commercial harvest rate	1.13%	1.33%	1.16%	3.63%	3.63%	3.63%			17.13%
Chehalis Tribal harvest rate	1.05%	0.00%	0.88%	0.74%	4.03%	1.99%			0.00%
QIN Treaty Harvest Rate	20.02%	20.02%	20.02%	20.81%	20.81%	20.81%			20.92%
Total Chehalis Basin Harvest Rate	26.01%	28.21%	26.37%	38.72%	42.72%	40.24%			40.15%
HUMPTULIPS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	3,857	4,683	8,540	3,614	11,206	14,820	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	-3,280	10,806	7,526			11,649
	142	2,157	2,299	-1,640	5,403	3,763			5,825
Humtulpils 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	223	2,147	2,370	133	1,614	1,748			212
Marine Area 2.2 Harvest	11	102	114	10	123	133			0
Freshwater Harvest	110	1,918	2,028	67	1,318	1,384			95
Commercial Harvest	102	126	228	56	174	230			117
QIN Treaty Harvest	620	752	1,372	848	2,629	3,477			4,031
Total Humtulpils Basin Harvest	842	2,899	3,742	981	4,244	5,225			4,243
Expected Escapement	3,015	1,784	4,798	2,633	6,962	9,595			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	5.77%	45.84%	27.75%	3.69%	14.41%	11.79%			0.65%
Total Recreational harvest rate	3.14%	43.15%	25.08%	2.14%	12.85%	10.24%			0.29%
Proportion of Rec Marine Area 2.2	9.2%	5.07%	5.30%	13.5%	8.52%	8.78%			See above
Proportion of Rec Freshwater	90.80%	94.93%	94.70%	86.49%	91.48%	91.22%			100.00%
Commercial harvest rate in 2C Only	2.56%								
Commercial harvest rate	2.63%	2.69%	2.66%	1.55%	1.55%	1.55%			0.36%
QIN Treaty Harvest Rate	16.07%	16.07%	16.07%	23.46%	23.46%	23.46%			12.35%
Total Harvest Rate	21.84%	61.91%	43.81%	27.16%	37.87%	35.26%			13.00%

2020 Grays Harbor Fall Salmon Management Summary Tables

Model A Base – 2020 Forecasts with 2019 fisheries (NOF2 Coho run 2019b) Cont'd

GRAYS HARBOR TOTAL									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	15,001	6,872	21,873	46,927	37,872	84,799	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	11,527	35,972	47,499			11,649
	838	2,963	3,800	5,764	17,986	23,750			5,825
Management Objectives									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate									23
Total Impacts									
Harvest Impacts									
WDFW-managed fishery Harvest	773	2,326	3,099	7,571	6,381	13,952	6,491		
Marine Area 2.2 Harvest	179	178	357	1,173	961	2,134	35		
Freshwater Harvest	367	1,993	2,360	4,768	4,277	9,045	748		
Commercial Harvest	227	155	382	1,629	1,143	2,772	5,709		
Chehalis Tribe	117	0	117	320	1,075	1,395	0		
Total NT - Harvest	890	2,326	3,216	7,891	7,456	15,347	6,491		
QIN Treaty Harvest	2,851	1,191	4,042	9,861	8,178	18,039	10,860		
Total GH Harvest	3,741	3,517	7,258	17,752	15,634	33,386	17,352		
Expected Escapement	11,260	3,355	14,615	29,175	22,238	51,413	15,297		
	2,066								
Harvest Rates									
Non-treaty Harvest Rate	5.16%	33.85%	14.17%	16.13%	16.85%	16.45%	19.88%		
Proportion of Rec Marine Area 2.2									4.44%
Marine Area 2.2 harvest rate	1.19%	2.59%	1.63%	2.50%	2.54%	2.52%	0.11%		
Freshwater harvest rate	2.45%	29.00%	10.79%	10.16%	11.29%	10.67%	2.29%		
Commercial harvest rate	1.51%	2.26%	1.75%	3.47%	3.02%	3.27%	17.49%		
QIN Treaty Harvest Rate	19.00%	17.33%	18.48%	21.01%	21.59%	21.27%	33.26%		
Total GH Harvest Rate	24.94%	51.17%	33.18%	37.83%	41.28%	39.37%	53.15%		

Model B - NT Comm 2A/D 4 days Wk 43, 3 day Wk 44, 2C no days; FW 2 fish Oct, 1 fish Nov-Dec (NOF2 Coho 2019b)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,313	26,666	69,979	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	14,807	25,166	39,973			11,649
	696	806	1,501	7,404	12,583	19,987			5,825
Chehalis River Management Objectives									
Proportion of Rec Marine Area 2.2	<27%								< 2% total
Commercial Impact Rate in 2A-D Only	< 0.8%								
Total WDFW-managed fishery	=<5%								=<5%
Harvest Impacts									
WDFW-managed fishery Harvest	489	164	653	6,842	4,372	11,214	5,322		
Marine Area 2.2 Harvest	168	76	244	1,163	838	2,001	35		
Freshwater Harvest	246	70	316	4,228	2,640	6,868	279		
Commercial Harvest (Area 2A, 2D)	75	18	93	1,451	894	2,345	5,009		
Chehalis Tribal Harvest	117	0	117	320	1,075	1,395	0		
QIN Treaty Harvest	2,231	438	2,669	9,013	5,549	14,562	6,829		
Total Chehalis Basin Harvest	2,837	602	3,439	16,175	10,996	27,171	12,152		
Expected Escapement	8,307	1,587	9,894	27,138	15,670	42,808	N/A		
Harvest Rates									
WDFW-managed fishery Harvest Rate	4.4%	7.48%	4.90%	15.80%	16.40%	16.03%	16.30%		
Total Recreational harvest rate	3.72%	6.65%	4.20%	12.45%	13.05%	12.67%	0.96%		
Proportion of Rec Marine Area 2.2	40.5%	51.87%	43.49%	21.6%	24.10%	22.56%	11.08%		
Proportion of Rec Freshwater	59.45%	48.13%	56.51%	78.43%	75.90%	77.44%	88.92%		
Commercial Impact Rate in 2A-D only	0.67%								
Commercial harvest rate	0.67%	0.83%	0.70%	3.35%	3.35%	3.35%	15.34%		
Chehalis Tribal harvest rate	1.05%	0.00%	0.88%	0.74%	4.03%	1.99%	0.00%		
QIN Treaty Harvest Rate	20.02%	20.02%	20.02%	20.81%	20.81%	20.81%	20.92%		
Total Chehalis Basin Harvest Rate	25.46%	27.50%	25.80%	37.34%	41.24%	38.83%	37.22%		

2020 Grays Harbor Fall Salmon Management Summary Tables

Model B - NT Comm 2A/D 4 days Wk 43, 3 day Wk 44, 2C no days; FW 2 fish Oct, 1 fish Nov-Dec (NOF2 Coho 2019b) Cont'd

HUMPTULIPS RIVER BASIN										
	Chinook			Coho			Chum			
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total	
Escapement Goal	0	3,857	4,683	8,540	3,614	11,206	14,820	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	-3,280	10,806	7,526			11,649
		142	2,157	2,299	-1,640	5,403	3,763			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		124	2,027	2,151	97	1,503	1,600			37
Marine Area 2.2 Harvest		11	102	114	10	123	133			0
Freshwater Harvest		110	1,918	2,028	67	1,318	1,384			37
Commercial Harvest		3	6	9	20	62	82			0
QIN Treaty Harvest		620	752	1,372	848	2,629	3,477			4,031
Total Humptulips Basin Harvest		744	2,779	3,523	945	4,132	5,077			4,068
Expected Escapement		3,113	1,904	5,017	2,669	7,074	9,743			N/A
Harvest Rates										
WDFW-managed fishery Harvest Rate		3.22%	43.28%	25.19%	2.69%	13.41%	10.80%			0.11%
Total Recreational harvest rate		3.14%	43.15%	25.08%	2.14%	12.85%	10.24%			0.11%
Proportion of Rec Marine Area 2.2		9.2%	5.07%	5.30%	13.5%	8.52%	8.78%			See above
Proportion of Rec Freshwater		90.80%	94.93%	94.70%	86.49%	91.48%	91.22%			100.00%
Commercial harvest rate in 2C Only		0.00%								
Commercial harvest rate		0.07%	0.13%	0.11%	0.56%	0.56%	0.56%			0.00%
QIN Treaty Harvest Rate		16.07%	16.07%	16.07%	23.46%	23.46%	23.46%			12.35%
Total Harvest Rate		19.28%	59.35%	41.26%	26.16%	36.87%	34.26%			12.46%

GRAYS HARBOR TOTAL										
	Chinook			Coho			Chum			
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total	
Escapement Goal	0	15,001	6,872	21,873	46,927	37,872	84,799	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	11,527	35,972	47,499			11,649
		838	2,963	3,800	5,764	17,986	23,750			5,825
Management Objectives										
Marine Area 2.2 impact rate										< 2% total
Commercial impact rate					23					
Total Impacts										
Harvest Impacts										
WDFW-managed fishery Harvest		613	2,191	2,804	6,939	5,875	12,814			5,359
Marine Area 2.2 Harvest		179	178	357	1,173	961	2,134			35
Freshwater Harvest		356	1,989	2,345	4,294	3,958	8,252			315
Commercial Harvest		78	24	102	1,472	956	2,427			5,009
Chehalis Tribe		117	0	117	320	1,075	1,395			0
Total NT - Harvest		730	2,191	2,921	7,260	6,950	14,210			5,359
QIN Treaty Harvest		2,851	1,191	4,042	9,861	8,178	18,039			10,860
Total GH Harvest		3,581	3,381	6,963	17,120	15,128	32,249			16,219
Expected Escapement		11,420	3,491	14,910	29,807	22,744	52,550			16,430
		1,906								
Harvest Rates										
Non-treaty Harvest Rate		4.09%	31.88%	12.82%	14.79%	15.51%	15.11%			16.41%
Proportion of Rec Marine Area 2.2										9.92%
Marine Area 2.2 harvest rate		1.19%	2.59%	1.63%	2.50%	2.54%	2.52%			0.11%
Freshwater harvest rate		2.38%	28.94%	10.72%	9.15%	10.45%	9.73%			0.97%
Commercial harvest rate		0.52%	0.35%	0.47%	3.14%	2.52%	2.86%			15.34%
QIN Treaty Harvest Rate		19.00%	17.33%	18.48%	21.01%	21.59%	21.27%			33.26%
Total GH Harvest Rate		23.87%	49.21%	31.83%	36.48%	39.95%	38.03%			49.68%

2020 Grays Harbor Fall Salmon Management Summary Tables

Model C -2A/D 3 days Wk 43 and 44, 2C 4 days Wk 43; 2019 rec fisheries (NOF2 Coho run 2019b)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,313	26,666	69,979	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	14,807	25,166	39,973			11,649
	696	806	1,501	7,404	12,583	19,987			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	488	166	654	7,038	4,520	11,558			4,882
Marine Area 2.2 Harvest	168	76	244	1,163	838	2,001			35
Freshwater Harvest	257	75	332	4,702	2,959	7,661			653
Commercial Harvest (Area 2A, 2D)	63	16	79	1,174	723	1,896			4,194
Chehalis Tribal Harvest	117	0	117	320	1,075	1,395			0
QIN Treaty Harvest	2,231	438	2,669	9,013	5,549	14,562			6,829
Total Chehalis Basin Harvest	2,836	604	3,440	16,371	11,144	27,515			11,711
Expected Escapement	8,308	1,585	9,893	26,942	15,522	42,464			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	4.4%	7.57%	4.90%	16.25%	16.95%	16.52%			14.95%
Total Recreational harvest rate	3.81%	6.86%	4.31%	13.54%	14.24%	13.81%			2.11%
Proportion of Rec Marine Area 2.2	39.5%	50.31%	42.34%	19.8%	22.07%	20.71%			5.05%
Proportion of Rec Freshwater	60.48%	49.69%	57.66%	80.17%	77.93%	79.29%			94.95%
Commercial Impact Rate in 2A-D only	0.51%								
Commercial harvest rate	0.57%	0.72%	0.59%	2.71%	2.71%	2.71%			12.85%
Chehalis Tribal harvest rate	1.05%	0.00%	0.88%	0.74%	4.03%	1.99%			0.00%
QIN Treaty Harvest Rate	20.02%	20.02%	20.02%	20.81%	20.81%	20.81%			20.92%
Total Chehalis Basin Harvest Rate	25.45%	27.59%	25.80%	37.80%	41.79%	39.32%			35.87%
HUMPTULIPS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	3,857	4,683	8,540	3,614	11,206	14,820	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	-3,280	10,806	7,526			11,649
	142	2,157	2,299	-1,640	5,403	3,763			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	132	2,036	2,168	104	1,522	1,626			158
Marine Area 2.2 Harvest	11	102	114	10	123	133			0
Freshwater Harvest	110	1,918	2,028	67	1,318	1,384			95
Commercial Harvest	11	15	26	26	82	108			63
QIN Treaty Harvest	620	752	1,372	848	2,629	3,477			4,031
Total Humptulips Basin Harvest	752	2,788	3,540	952	4,151	5,103			4,189
Expected Escapement	3,105	1,895	5,000	2,662	7,055	9,717			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	3.42%	43.47%	25.38%	2.87%	13.58%	10.97%			0.48%
Total Recreational harvest rate	3.14%	43.15%	25.08%	2.14%	12.85%	10.24%			0.29%
Proportion of Rec Marine Area 2.2	9.2%	5.07%	5.30%	13.5%	8.52%	8.78%			See above
Proportion of Rec Freshwater	90.80%	94.93%	94.70%	86.49%	91.48%	91.22%			100.00%
Commercial harvest rate in 2C Only	0.22%								
Commercial harvest rate	0.28%	0.32%	0.30%	0.73%	0.73%	0.73%			0.19%
QIN Treaty Harvest Rate	16.07%	16.07%	16.07%	23.46%	23.46%	23.46%			12.35%
Total Harvest Rate	19.49%	59.54%	41.45%	26.33%	37.05%	34.43%			12.83%

2020 Grays Harbor Fall Salmon Management Summary Tables

Model C -2A/D 3 days Wk 43 and 44, 2C 4 days Wk 43; 2019 rec fisheries (NOF2 Coho run 2019b) Cont'd

GRAYS HARBOR TOTAL									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	15,001	6,872	21,873	46,927	37,872	84,799	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	11,527	35,972	47,499			11,649
	838	2,963	3,800	5,764	17,986	23,750			5,825
Management Objectives									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate				23					
Total Impacts									
Harvest Impacts									
WDFW-managed fishery Harvest	620	2,202	2,822	7,142	6,042	13,184			5,040
Marine Area 2.2 Harvest	179	178	357	1,173	961	2,134			35
Freshwater Harvest	367	1,993	2,360	4,768	4,277	9,045			748
Commercial Harvest	74	31	104	1,200	804	2,004			4,257
Chehalis Tribe	117	0	117	320	1,075	1,395			0
Total NT - Harvest	737	2,202	2,938	7,462	7,118	14,579			5,040
QIN Treaty Harvest	2,851	1,191	4,042	9,861	8,178	18,039			10,860
Total GH Harvest	3,588	3,392	6,980	17,323	15,296	32,619			15,900
Expected Escapement	11,413	3,480	14,893	29,604	22,576	52,180			16,749
	1,913								
Harvest Rates									
Non-treaty Harvest Rate	4.13%	32.04%	12.90%	15.22%	15.95%	15.55%			15.44%
Proportion of Rec Marine Area 2.2									4.44%
Marine Area 2.2 harvest rate	1.19%	2.59%	1.63%	2.50%	2.54%	2.52%			0.11%
Freshwater harvest rate	2.45%	29.00%	10.79%	10.16%	11.29%	10.67%			2.29%
Commercial harvest rate	0.49%	0.45%	0.48%	2.56%	2.12%	2.36%			13.04%
QIN Treaty Harvest Rate	19.00%	17.33%	18.48%	21.01%	21.59%	21.27%			33.26%
Total GH Harvest Rate	23.92%	49.36%	31.91%	36.91%	40.39%	38.47%			48.70%

Model D - 2019 fisheries; except North Bay Rec schedule Sun-Thur only (NOF2 Coho run 2019b)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,313	26,666	69,979	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	14,807	25,166	39,973			11,649
	696	806	1,501	7,404	12,583	19,987			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	550	179	729	7,437	4,761	12,198			6,280
Marine Area 2.2 Harvest	168	75	242	1,162	832	1,995			35
Freshwater Harvest	257	75	332	4,702	2,959	7,661			653
Commercial Harvest (Area 2A, 2D)	126	29	155	1,573	969	2,542			5,592
Chehalis Tribal Harvest	117	0	117	320	1,075	1,395			0
QIN Treaty Harvest	2,231	438	2,669	9,013	5,549	14,562			6,829
Total Chehalis Basin Harvest	2,898	617	3,515	16,770	11,385	28,155			13,109
Expected Escapement	8,246	1,572	9,818	26,543	15,281	41,824			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	4.9%	8.16%	5.47%	17.17%	17.85%	17.43%			19.23%
Total Recreational harvest rate	3.81%	6.83%	4.31%	13.54%	14.22%	13.80%			2.11%
Proportion of Rec Marine Area 2.2	39.5%	50.11%	42.23%	19.8%	21.95%	20.66%			5.05%
Proportion of Rec Freshwater	60.54%	49.89%	57.77%	80.18%	78.05%	79.34%			94.95%
Commercial Impact Rate in 2A-D only	0.68%								
Commercial harvest rate	1.13%	1.33%	1.16%	3.63%	3.63%	3.63%			17.13%
Chehalis Tribal harvest rate	1.05%	0.00%	0.88%	0.74%	4.03%	1.99%			0.00%
QIN Treaty Harvest Rate	20.02%	20.02%	20.02%	20.81%	20.81%	20.81%			20.92%
Total Chehalis Basin Harvest Rate	26.01%	28.18%	26.36%	38.72%	42.69%	40.23%			40.15%

2020 Grays Harbor Fall Salmon Management Summary Tables

Model D - 2019 fisheries; except North Bay Rec schedule Sun-Thur only (NOF2 Coho run 2019b) Cont'd

HUMPTULIPS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	3,857	4,683	8,540	3,614	11,206	14,820	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	-3,280	10,806	7,526			11,649
	142	2,157	2,299	-1,640	5,403	3,763			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	222	2,139	2,361	133	1,583	1,715			212
Marine Area 2.2 Harvest	10	95	105	10	91	101			0
Freshwater Harvest	110	1,918	2,028	67	1,318	1,384			95
Commercial Harvest	102	126	228	56	174	230			117
QIN Treaty Harvest	620	752	1,372	848	2,629	3,477			4,031
Total Humptulips Basin Harvest	842	2,892	3,733	981	4,212	5,193			4,243
Expected Escapement	3,015	1,791	4,807	2,633	6,994	9,627			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	5.75%	45.68%	27.65%	3.67%	14.12%	11.58%			0.65%
Total Recreational harvest rate	3.12%	42.99%	24.98%	2.12%	12.57%	10.02%			0.29%
Proportion of Rec Marine Area 2.2	8.6%	4.71%	4.93%	12.6%	6.48%	6.80%			See above
Proportion of Rec Freshwater	91.45%	95.29%	95.07%	87.38%	93.52%	93.20%			100.00%
Commercial harvest rate in 2C Only	2.56%								
Commercial harvest rate	2.63%	2.69%	2.66%	1.55%	1.55%	1.55%			0.36%
QIN Treaty Harvest Rate	16.07%	16.07%	16.07%	23.46%	23.46%	23.46%			12.35%
Total Harvest Rate	21.82%	61.75%	43.72%	27.13%	37.59%	35.04%			13.00%

GRAYS HARBOR TOTAL									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	15,001	6,872	21,873	46,927	37,872	84,799	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	11,527	35,972	47,499			11,649
	838	2,963	3,800	5,764	17,986	23,750			5,825
Management Objectives									
Marine Area 2.2 impact rate				23			< 2% total		
Commercial impact rate									
Total Impacts									
Harvest Impacts									
WDFW-managed fishery Harvest	772	2,318	3,090	7,570	6,343	13,913			6,491
Marine Area 2.2 Harvest	178	170	348	1,172	924	2,096			35
Freshwater Harvest	367	1,993	2,360	4,768	4,277	9,045			748
Commercial Harvest	227	155	382	1,629	1,143	2,772			5,709
<i>Chehalis Tribe</i>	117	0	117	320	1,075	1,395			0
<i>Total NT - Harvest</i>	889	2,318	3,207	7,890	7,419	15,309			6,491
QIN Treaty Harvest	2,851	1,191	4,042	9,861	8,178	18,039			10,860
Total GH Harvest	3,740	3,508	7,248	17,751	15,597	33,348			17,352
Expected Escapement	11,261	3,364	14,625	29,176	22,275	51,451			15,297
	2,065								
Harvest Rates									
Non-treaty Harvest Rate	5.15%	33.73%	14.13%	16.13%	16.75%	16.41%			19.88%
Proportion of Rec Marine Area 2.2									4.44%
Marine Area 2.2 harvest rate	1.19%	2.47%	1.59%	2.50%	2.44%	2.47%			0.11%
Freshwater harvest rate	2.45%	29.00%	10.79%	10.16%	11.29%	10.67%			2.29%
Commercial harvest rate	1.51%	2.26%	1.75%	3.47%	3.02%	3.27%			17.49%
QIN Treaty Harvest Rate	19.00%	17.33%	18.48%	21.01%	21.59%	21.27%			33.26%
Total GH Harvest Rate	24.93%	51.05%	33.14%	37.83%	41.18%	39.33%			53.15%

2020 Grays Harbor Fall Salmon Management Summary Tables
Model E - Rec bag 2 Sept, 1 Nov-Dec; Comm 2B (NOF2 Coho run 2019b)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,313	26,666	69,980	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	14,807	25,166	39,974			11,649
	696	806	1,501	7,404	12,583	19,987			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	433	152	584	6,497	4,160	10,657			4,016
Marine Area 2.2 Harvest	168	76	244	1,163	838	2,001			35
Freshwater Harvest	246	70	316	4,228	2,640	6,868			279
Commercial Harvest (Area 2A, 2D)	18	6	25	1,107	681	1,788			3,703
Chehalis Tribal Harvest	117	0	117	320	1,075	1,395			0
QIN Treaty Harvest	2,231	438	2,669	9,013	5,549	14,562			6,829
Total Chehalis Basin Harvest	2,780	590	3,371	15,830	10,784	26,614			10,846
Expected Escapement	8,364	1,599	9,962	27,483	15,882	43,365			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	3.9%	6.94%	4.38%	15.00%	15.60%	15.23%			12.30%
Total Recreational harvest rate	3.72%	6.65%	4.20%	12.45%	13.05%	12.67%			0.96%
Proportion of Rec Marine Area 2.2	40.5%	51.87%	43.49%	21.6%	24.10%	22.56%			11.08%
Proportion of Rec Freshwater	59.45%	48.13%	56.51%	78.43%	75.90%	77.44%			88.92%
Commercial Impact Rate in 2A-D only	0.16%								
Commercial harvest rate	0.16%	0.29%	0.18%	2.55%	2.55%	2.55%			11.34%
Chehalis Tribal harvest rate	1.05%	0.00%	0.88%	0.74%	4.03%	1.99%			0.00%
QIN Treaty Harvest Rate	20.02%	20.02%	20.02%	20.81%	20.81%	20.81%			20.92%
Total Chehalis Basin Harvest Rate	24.95%	26.96%	25.28%	36.55%	40.44%	38.03%			33.22%
HUMPTULIPS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	3,857	4,683	8,540	3,614	11,206	14,819	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	-3,280	10,806	7,525			11,649
	142	2,157	2,299	-1,640	5,403	3,763			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	144	2,070	2,215	100	1,511	1,611			37
Marine Area 2.2 Harvest	11	102	114	10	123	133			0
Freshwater Harvest	110	1,918	2,028	67	1,317	1,384			37
Commercial Harvest	23	49	73	23	70	93			0
QIN Treaty Harvest	620	752	1,372	848	2,629	3,477			4,031
Total Humptulips Basin Harvest	764	2,823	3,587	948	4,140	5,088			4,068
Expected Escapement	3,093	1,860	4,953	2,666	7,066	9,731			N/A
Harvest Rates									
WDFW-managed fishery Harvest Rate	3.75%	44.21%	25.93%	2.77%	13.48%	10.87%			0.11%
Total Recreational harvest rate	3.14%	43.15%	25.08%	2.14%	12.85%	10.24%			0.11%
Proportion of Rec Marine Area 2.2	9.2%	5.07%	5.30%	13.5%	8.52%	8.78%			See above
Proportion of Rec Freshwater	90.80%	94.93%	94.70%	86.49%	91.48%	91.22%			100.00%
Commercial harvest rate in 2C Only	0.00%								
Commercial harvest rate	0.60%	1.05%	0.85%	0.63%	0.63%	0.63%			0.00%
QIN Treaty Harvest Rate	16.07%	16.07%	16.07%	23.46%	23.46%	23.46%			12.35%
Total Harvest Rate	19.81%	60.28%	42.00%	26.23%	36.95%	34.33%			12.46%

2020 Grays Harbor Fall Salmon Management Summary Tables

Model E - Rec bag 2 Sept, 1 Nov-Dec; Comm 2B (NOF2 Coho run 2019b) Cont'd

GRAYS HARBOR TOTAL									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goal	15,001	6,872	21,873	46,927	37,872	84,799	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	11,527	35,972	47,499			11,649
	838	2,963	3,800	5,764	17,986	23,749			5,825
Management Objectives									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate				23					
Total Impacts									
Harvest Impacts									
WDFW-managed fishery Harvest	577	2,222	2,799	6,597	5,671	12,268			4,053
Marine Area 2.2 Harvest	179	178	357	1,173	961	2,134			35
Freshwater Harvest	356	1,989	2,345	4,294	3,958	8,252			315
Commercial Harvest	42	56	97	1,129	752	1,881			3,703
<i>Chehalis Tribe</i>	117	0	117	320	1,075	1,395			0
<i>Total NT - Harvest</i>	694	2,222	2,916	6,917	6,746	13,663			4,053
QIN Treaty Harvest	2,851	1,191	4,042	9,861	8,178	18,039			10,860
Total GH Harvest	3,545	3,413	6,958	16,778	14,924	31,702			14,913
Expected Escapement	11,456	3,459	14,915	30,149	22,948	53,097			17,736
	1,870								
Harvest Rates									
Non-treaty Harvest Rate	3.85%	32.34%	12.80%	14.06%	14.97%	14.47%			12.41%
Proportion of Rec Marine Area 2.2									9.92%
Marine Area 2.2 harvest rate	1.19%	2.59%	1.63%	2.50%	2.54%	2.52%			0.11%
Freshwater harvest rate	2.38%	28.94%	10.72%	9.15%	10.45%	9.73%			0.97%
Commercial harvest rate	0.28%	0.81%	0.44%	2.41%	1.98%	2.22%			11.34%
QIN Treaty Harvest Rate	19.00%	17.33%	18.48%	21.01%	21.59%	21.27%			33.26%
Total GH Harvest Rate	23.63%	49.66%	31.81%	35.75%	39.41%	37.39%			45.68%

2020 Grays Harbor Fishery Model Option Summary
2020 Fishery Description

Model	Fishery	Area	Total Bag Limit	Chinook Fishery - UM Release Required (MSF)	Natural Coho Bag Limit	Hatchery Coho Bag Limit	Chum
A	Marine Rec	North Bay	1	Aug 1-Sept 15	MSF	1	Retention
		East Bay	2	Release all Chinook	2	2	Retention
	FW Rec	Humptulips	2 Sept, 1 Oct - Dec	MSF	MSF	2 Sept, 1 Oct - Dec	Retention
		Chehalis	2	Release all Chinook	2	2	Retention
	Commercial	2A/D	4 days Wk 43 4 days Wk 44	MSF	Retention	Retention	Retention
		2C	1 day Wk 42 1 day Wk 44	Retention	Retention	Retention	Retention
B	Marine Rec	North Bay	1	Aug 1-Sept 15	MSF	1	Retention
		East Bay	2	Release all Chinook	2	2	Retention
	FW Rec	Humptulips	2 Sept, 1 Oct - Dec	MSF	MSF	2 Sept, 1 Oct - Dec	Release Nov-Dec
		Chehalis	2 Oct, 1 Nov-Dec	Release all Chinook	2 Oct, 1 Nov-Dec	2 Oct, 1 Nov-Dec	Release Nov-Dec
	Commercial	2A/D	4 days Wk 43 3 days Wk 44	MSF	Retention	Retention	Retention
		2C					
C	Marine Rec	North Bay	1	Aug 1-Sept 15	MSF	1	Retention
		East Bay	2	Release all Chinook	2	2	Retention
	FW Rec	Humptulips	2 Sept, 1 Oct - Dec	MSF	MSF	2 Sept, 1 Oct - Dec	Retention
		Chehalis	2	Release all Chinook	2	2	Retention
	Commercial	2A/D	3 days Wk 43 3 days Wk 44	MSF	Retention	Retention	Retention
		2C	4 day Wk 43	Retention	Retention	Retention	Retention
D	Marine Rec	North Bay	1	Aug 1-Sept 15 Sun-Thur	MSF	1	Retention
		East Bay	2	Release all Chinook	2	2	Retention
	FW Rec	Humptulips	2 Sept, 1 Oct - Dec	MSF	MSF	2 Sept, 1 Oct - Dec	Retention
		Chehalis	2	Release all Chinook	2	2	Retention
	Commercial	2A/D	4 days Wk 43 4 days Wk 44	MSF	Retention	Retention	Retention
		2C	1 day Wk 42 1 day Wk 44	Retention	Retention	Retention	Retention
E	Marine Rec	North Bay	1	Aug 1-Sept 15	MSF	1	Retention
		East Bay	2	Release all Chinook	2	2	Retention
	FW Rec	Humptulips	2 Sept, 1 Oct - Dec	MSF	MSF	2 Sept, 1 Oct - Dec	Release Nov-Dec
		Chehalis	2 Oct, 1 Nov-Dec	Release all Chinook	2 Oct, 1 Nov-Dec	2 Oct, 1 Nov-Dec	Release Nov-Dec
	Commercial	2A/D		MSF	Retention	Retention	Retention
		2B	4 days Wk 43 3 days Wk 44	MSF	Retention	Retention	Retention
		2C					

MSF = Mark Selective Fishery

2020 Grays Harbor Fishery Model Option Summary

Model	WDFW Available Harvest Sharing				Policy Priorities		Sport Allocation %								
	NOR Chinook		NOR Coho	Chum	Harvest Rate (5%)		Chinook				Coho				
	Chehalis	Humptulips	Chehalis	GH	Humptulips		Chehalis		Humptulips		Chehalis		Humptulips		
	available	696	available	7,419	available	5,825	Chinook	Coho	Marine	FW	Marine	FW	Marine	FW	Marine
		142						(73%)	(82%)	(73%)	(82%)				
A	667	223	7,758	6,491	5.77%	3.70%	40%	60%	9%	91%	20%	80%	14%	86%	
B	606	124	7,162	5,359	3.22%	2.70%	38%	62%	5%	95%	23%	77%	9%	91%	
C	605	132	7,342	5,040	3.42%	2.90%	37%	63%	5%	95%	21%	79%	9%	91%	
D	667	222	7,740	6,491	5.75%	3.70%	37%	63%	5%	95%	21%	79%	7%	93%	
E	549	144	6,817	4,053	3.75%	2.80%	38%	62%	5%	95%	23%	77%	9%	91%	

Model	Harvest																	
	Chinook						Coho						Chum					
	Chehalis (impacts)			Humptulips			Chehalis			Humptulips			Chehalis			Humptulips		
	NT	FW	Marine	NT	FW	Marine	NT	FW	Marine	NT	FW	Marine	NT	FW	Marine	NT	FW	Marine
Comm			Comm			Comm			Comm			Comm			Comm			
A	155	421	244	228	2,028	114	2,542	7,661	1,940	230	1,384	133	5,592	653	35	117	95	0
B	93	406	244	9	2,028	114	2,345	6,868	1,940	82	1,384	133	5,009	279	35	0	37	0
C	76	421	244	26	2,028	114	1,896	7,661	1,940	108	1,384	133	4,194	653	35	63	95	0
D	155	421	242	228	2,028	105	2,542	7,661	1,934	230	1,384	101	5,592	653	35	117	95	0
E	25	406	244	73	2,028	114	1,788	6,868	1,940	93	1,384	133	3,703	279	35	0	37	0