

## 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
<b>Chehalis River Management Objectives</b>									
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%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>551</b>	<b>179</b>	<b>730</b>	<b>7,438</b>	<b>4,766</b>	<b>12,204</b>			<b>6,280</b>
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
<b>QIN Treaty Harvest</b>	<b>2,231</b>	<b>438</b>	<b>2,669</b>	<b>9,013</b>	<b>5,549</b>	<b>14,562</b>			<b>6,829</b>
<b>Total Chehalis Basin Harvest</b>	<b>2,899</b>	<b>617</b>	<b>3,516</b>	<b>16,771</b>	<b>11,390</b>	<b>28,161</b>			<b>13,109</b>
<b>Expected Escapement</b>	<b>8,245</b>	<b>1,572</b>	<b>9,817</b>	<b>26,542</b>	<b>15,276</b>	<b>41,818</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>4.9%</b>	<b>8.18%</b>	<b>5.47%</b>	<b>17.17%</b>	<b>17.87%</b>	<b>17.44%</b>			<b>19.23%</b>
<b>Total Recreational harvest rate</b>	<b>3.81%</b>	<b>6.86%</b>	<b>4.31%</b>	<b>13.54%</b>	<b>14.24%</b>	<b>13.81%</b>			<b>2.11%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.81%</b>	<b>20.81%</b>	<b>20.81%</b>			<b>20.92%</b>
<b>Total Chehalis Basin Harvest Rate</b>	<b>26.01%</b>	<b>28.21%</b>	<b>26.37%</b>	<b>38.72%</b>	<b>42.72%</b>	<b>40.24%</b>			<b>40.15%</b>
<b>HUMPTULIPS RIVER BASIN</b>									
	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
<b>Humtulpips River Management Objectives</b>									
Marine Area 2.2 impact rate	37%			18 - 34%					
Commercial impact rate in 2C Only	< 5.4%								
Total Impacts				< 5%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>223</b>	<b>2,147</b>	<b>2,370</b>	<b>133</b>	<b>1,614</b>	<b>1,748</b>			<b>212</b>
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
<b>QIN Treaty Harvest</b>	<b>620</b>	<b>752</b>	<b>1,372</b>	<b>848</b>	<b>2,629</b>	<b>3,477</b>			<b>4,031</b>
<b>Total Humtulpips Basin Harvest</b>	<b>842</b>	<b>2,899</b>	<b>3,742</b>	<b>981</b>	<b>4,244</b>	<b>5,225</b>			<b>4,243</b>
<b>Expected Escapement</b>	<b>3,015</b>	<b>1,784</b>	<b>4,798</b>	<b>2,633</b>	<b>6,962</b>	<b>9,595</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>5.77%</b>	<b>45.84%</b>	<b>27.75%</b>	<b>3.69%</b>	<b>14.41%</b>	<b>11.79%</b>			<b>0.65%</b>
<b>Total Recreational harvest rate</b>	<b>3.14%</b>	<b>43.15%</b>	<b>25.08%</b>	<b>2.14%</b>	<b>12.85%</b>	<b>10.24%</b>			<b>0.29%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>16.07%</b>	<b>16.07%</b>	<b>16.07%</b>	<b>23.46%</b>	<b>23.46%</b>	<b>23.46%</b>			<b>12.35%</b>
<b>Total Harvest Rate</b>	<b>21.84%</b>	<b>61.91%</b>	<b>43.81%</b>	<b>27.16%</b>	<b>37.87%</b>	<b>35.26%</b>			<b>13.00%</b>

## 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
<b>Management Objectives</b>									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate									23
Total Impacts									
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>773</b>	<b>2,326</b>	<b>3,099</b>	<b>7,571</b>	<b>6,381</b>	<b>13,952</b>	<b>6,491</b>		
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		
<b>QIN Treaty Harvest</b>	<b>2,851</b>	<b>1,191</b>	<b>4,042</b>	<b>9,861</b>	<b>8,178</b>	<b>18,039</b>	<b>10,860</b>		
<b>Total GH Harvest</b>	<b>3,741</b>	<b>3,517</b>	<b>7,258</b>	<b>17,752</b>	<b>15,634</b>	<b>33,386</b>	<b>17,352</b>		
<b>Expected Escapement</b>	<b>11,260</b>	<b>3,355</b>	<b>14,615</b>	<b>29,175</b>	<b>22,238</b>	<b>51,413</b>	<b>15,297</b>		
	<b>2,066</b>								
<b>Harvest Rates</b>									
<b>Non-treaty Harvest Rate</b>	<b>5.16%</b>	<b>33.85%</b>	<b>14.17%</b>	<b>16.13%</b>	<b>16.85%</b>	<b>16.45%</b>	<b>19.88%</b>		
Proportion of Rec Marine Area 2.2							<b>4.44%</b>		
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%		
<b>QIN Treaty Harvest Rate</b>	<b>19.00%</b>	<b>17.33%</b>	<b>18.48%</b>	<b>21.01%</b>	<b>21.59%</b>	<b>21.27%</b>	<b>33.26%</b>		
<b>Total GH Harvest Rate</b>	<b>24.94%</b>	<b>51.17%</b>	<b>33.18%</b>	<b>37.83%</b>	<b>41.28%</b>	<b>39.37%</b>	<b>53.15%</b>		

### 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
<b>Chehalis River Management Objectives</b>									
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%
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>489</b>	<b>164</b>	<b>653</b>	<b>6,842</b>	<b>4,372</b>	<b>11,214</b>	<b>5,322</b>		
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		
<b>QIN Treaty Harvest</b>	<b>2,231</b>	<b>438</b>	<b>2,669</b>	<b>9,013</b>	<b>5,549</b>	<b>14,562</b>	<b>6,829</b>		
<b>Total Chehalis Basin Harvest</b>	<b>2,837</b>	<b>602</b>	<b>3,439</b>	<b>16,175</b>	<b>10,996</b>	<b>27,171</b>	<b>12,152</b>		
<b>Expected Escapement</b>	<b>8,307</b>	<b>1,587</b>	<b>9,894</b>	<b>27,138</b>	<b>15,670</b>	<b>42,808</b>	<b>N/A</b>		
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>4.4%</b>	<b>7.48%</b>	<b>4.90%</b>	<b>15.80%</b>	<b>16.40%</b>	<b>16.03%</b>	<b>16.30%</b>		
<b>Total Recreational harvest rate</b>	<b>3.72%</b>	<b>6.65%</b>	<b>4.20%</b>	<b>12.45%</b>	<b>13.05%</b>	<b>12.67%</b>	<b>0.96%</b>		
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%		
<b>QIN Treaty Harvest Rate</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.81%</b>	<b>20.81%</b>	<b>20.81%</b>	<b>20.92%</b>		
<b>Total Chehalis Basin Harvest Rate</b>	<b>25.46%</b>	<b>27.50%</b>	<b>25.80%</b>	<b>37.34%</b>	<b>41.24%</b>	<b>38.83%</b>	<b>37.22%</b>		

## 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
<b>Humptulips River Management Objectives</b>										
Marine Area 2.2 impact rate		37%			18 - 34%					
Commercial impact rate in 2C Only		< 5.4%								
Total Impacts					< 5%					
<b>Harvest Impacts</b>										
<b>WDFW-managed fishery Harvest</b>		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
<b>QIN Treaty Harvest</b>		620	752	1,372	848	2,629	3,477			4,031
<b>Total Humptulips Basin Harvest</b>		744	2,779	3,523	945	4,132	5,077			4,068
<b>Expected Escapement</b>		3,113	1,904	5,017	2,669	7,074	9,743			N/A
<b>Harvest Rates</b>										
<b>WDFW-managed fishery Harvest Rate</b>		3.22%	43.28%	25.19%	2.69%	13.41%	10.80%			0.11%
<b>Total Recreational harvest rate</b>		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%
<b>QIN Treaty Harvest Rate</b>		16.07%	16.07%	16.07%	23.46%	23.46%	23.46%			12.35%
<b>Total Harvest Rate</b>		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
<b>Management Objectives</b>										
Marine Area 2.2 impact rate										< 2% total
Commercial impact rate					23					
Total Impacts										
<b>Harvest Impacts</b>										
<b>WDFW-managed fishery Harvest</b>		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
<b>QIN Treaty Harvest</b>		2,851	1,191	4,042	9,861	8,178	18,039			10,860
<b>Total GH Harvest</b>		3,581	3,381	6,963	17,120	15,128	32,249			16,219
<b>Expected Escapement</b>		11,420	3,491	14,910	29,807	22,744	52,550			16,430
		1,906								
<b>Harvest Rates</b>										
<b>Non-treaty Harvest Rate</b>		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%
<b>QIN Treaty Harvest Rate</b>		19.00%	17.33%	18.48%	21.01%	21.59%	21.27%			33.26%
<b>Total GH Harvest Rate</b>		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
<b>Chehalis River Management Objectives</b>									
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%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>488</b>	<b>166</b>	<b>654</b>	<b>7,038</b>	<b>4,520</b>	<b>11,558</b>			<b>4,882</b>
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
<b>QIN Treaty Harvest</b>	<b>2,231</b>	<b>438</b>	<b>2,669</b>	<b>9,013</b>	<b>5,549</b>	<b>14,562</b>			<b>6,829</b>
<b>Total Chehalis Basin Harvest</b>	<b>2,836</b>	<b>604</b>	<b>3,440</b>	<b>16,371</b>	<b>11,144</b>	<b>27,515</b>			<b>11,711</b>
<b>Expected Escapement</b>	<b>8,308</b>	<b>1,585</b>	<b>9,893</b>	<b>26,942</b>	<b>15,522</b>	<b>42,464</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>4.4%</b>	<b>7.57%</b>	<b>4.90%</b>	<b>16.25%</b>	<b>16.95%</b>	<b>16.52%</b>			<b>14.95%</b>
<b>Total Recreational harvest rate</b>	<b>3.81%</b>	<b>6.86%</b>	<b>4.31%</b>	<b>13.54%</b>	<b>14.24%</b>	<b>13.81%</b>			<b>2.11%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.81%</b>	<b>20.81%</b>	<b>20.81%</b>			<b>20.92%</b>
<b>Total Chehalis Basin Harvest Rate</b>	<b>25.45%</b>	<b>27.59%</b>	<b>25.80%</b>	<b>37.80%</b>	<b>41.79%</b>	<b>39.32%</b>			<b>35.87%</b>
<b>HUMPTULIPS RIVER BASIN</b>									
	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
<b>Humptulips River Management Objectives</b>									
Marine Area 2.2 impact rate	37%			18 - 34%					
Commercial impact rate in 2C Only	< 5.4%								
Total Impacts				< 5%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>132</b>	<b>2,036</b>	<b>2,168</b>	<b>104</b>	<b>1,522</b>	<b>1,626</b>			<b>158</b>
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
<b>QIN Treaty Harvest</b>	<b>620</b>	<b>752</b>	<b>1,372</b>	<b>848</b>	<b>2,629</b>	<b>3,477</b>			<b>4,031</b>
<b>Total Humptulips Basin Harvest</b>	<b>752</b>	<b>2,788</b>	<b>3,540</b>	<b>952</b>	<b>4,151</b>	<b>5,103</b>			<b>4,189</b>
<b>Expected Escapement</b>	<b>3,105</b>	<b>1,895</b>	<b>5,000</b>	<b>2,662</b>	<b>7,055</b>	<b>9,717</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>3.42%</b>	<b>43.47%</b>	<b>25.38%</b>	<b>2.87%</b>	<b>13.58%</b>	<b>10.97%</b>			<b>0.48%</b>
<b>Total Recreational harvest rate</b>	<b>3.14%</b>	<b>43.15%</b>	<b>25.08%</b>	<b>2.14%</b>	<b>12.85%</b>	<b>10.24%</b>			<b>0.29%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>16.07%</b>	<b>16.07%</b>	<b>16.07%</b>	<b>23.46%</b>	<b>23.46%</b>	<b>23.46%</b>			<b>12.35%</b>
<b>Total Harvest Rate</b>	<b>19.49%</b>	<b>59.54%</b>	<b>41.45%</b>	<b>26.33%</b>	<b>37.05%</b>	<b>34.43%</b>			<b>12.83%</b>

## 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
<b>Management Objectives</b>									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate				23					
Total Impacts									
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>620</b>	<b>2,202</b>	<b>2,822</b>	<b>7,142</b>	<b>6,042</b>	<b>13,184</b>			<b>5,040</b>
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
<b>QIN Treaty Harvest</b>	<b>2,851</b>	<b>1,191</b>	<b>4,042</b>	<b>9,861</b>	<b>8,178</b>	<b>18,039</b>			<b>10,860</b>
<b>Total GH Harvest</b>	<b>3,588</b>	<b>3,392</b>	<b>6,980</b>	<b>17,323</b>	<b>15,296</b>	<b>32,619</b>			<b>15,900</b>
<b>Expected Escapement</b>	<b>11,413</b>	<b>3,480</b>	<b>14,893</b>	<b>29,604</b>	<b>22,576</b>	<b>52,180</b>			<b>16,749</b>
	1,913								
<b>Harvest Rates</b>									
<b>Non-treaty Harvest Rate</b>	<b>4.13%</b>	<b>32.04%</b>	<b>12.90%</b>	<b>15.22%</b>	<b>15.95%</b>	<b>15.55%</b>			<b>15.44%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>19.00%</b>	<b>17.33%</b>	<b>18.48%</b>	<b>21.01%</b>	<b>21.59%</b>	<b>21.27%</b>			<b>33.26%</b>
<b>Total GH Harvest Rate</b>	<b>23.92%</b>	<b>49.36%</b>	<b>31.91%</b>	<b>36.91%</b>	<b>40.39%</b>	<b>38.47%</b>			<b>48.70%</b>

## 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
<b>Chehalis River Management Objectives</b>									
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%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>550</b>	<b>179</b>	<b>729</b>	<b>7,437</b>	<b>4,761</b>	<b>12,198</b>			<b>6,280</b>
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
<b>QIN Treaty Harvest</b>	<b>2,231</b>	<b>438</b>	<b>2,669</b>	<b>9,013</b>	<b>5,549</b>	<b>14,562</b>			<b>6,829</b>
<b>Total Chehalis Basin Harvest</b>	<b>2,898</b>	<b>617</b>	<b>3,515</b>	<b>16,770</b>	<b>11,385</b>	<b>28,155</b>			<b>13,109</b>
<b>Expected Escapement</b>	<b>8,246</b>	<b>1,572</b>	<b>9,818</b>	<b>26,543</b>	<b>15,281</b>	<b>41,824</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>4.9%</b>	<b>8.16%</b>	<b>5.47%</b>	<b>17.17%</b>	<b>17.85%</b>	<b>17.43%</b>			<b>19.23%</b>
<b>Total Recreational harvest rate</b>	<b>3.81%</b>	<b>6.83%</b>	<b>4.31%</b>	<b>13.54%</b>	<b>14.22%</b>	<b>13.80%</b>			<b>2.11%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.81%</b>	<b>20.81%</b>	<b>20.81%</b>			<b>20.92%</b>
<b>Total Chehalis Basin Harvest Rate</b>	<b>26.01%</b>	<b>28.18%</b>	<b>26.36%</b>	<b>38.72%</b>	<b>42.69%</b>	<b>40.23%</b>			<b>40.15%</b>

## 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
<b>Humptulips River Management Objectives</b>									
Marine Area 2.2 impact rate	37%			18 - 34%					
Commercial impact rate in 2C Only	< 5.4%								
Total Impacts				< 5%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>222</b>	<b>2,139</b>	<b>2,361</b>	<b>133</b>	<b>1,583</b>	<b>1,715</b>			<b>212</b>
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
<b>QIN Treaty Harvest</b>	<b>620</b>	<b>752</b>	<b>1,372</b>	<b>848</b>	<b>2,629</b>	<b>3,477</b>			<b>4,031</b>
<b>Total Humptulips Basin Harvest</b>	<b>842</b>	<b>2,892</b>	<b>3,733</b>	<b>981</b>	<b>4,212</b>	<b>5,193</b>			<b>4,243</b>
<b>Expected Escapement</b>	<b>3,015</b>	<b>1,791</b>	<b>4,807</b>	<b>2,633</b>	<b>6,994</b>	<b>9,627</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>5.75%</b>	<b>45.68%</b>	<b>27.65%</b>	<b>3.67%</b>	<b>14.12%</b>	<b>11.58%</b>			<b>0.65%</b>
<b>Total Recreational harvest rate</b>	<b>3.12%</b>	<b>42.99%</b>	<b>24.98%</b>	<b>2.12%</b>	<b>12.57%</b>	<b>10.02%</b>			<b>0.29%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>16.07%</b>	<b>16.07%</b>	<b>16.07%</b>	<b>23.46%</b>	<b>23.46%</b>	<b>23.46%</b>			<b>12.35%</b>
<b>Total Harvest Rate</b>	<b>21.82%</b>	<b>61.75%</b>	<b>43.72%</b>	<b>27.13%</b>	<b>37.59%</b>	<b>35.04%</b>			<b>13.00%</b>

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
<b>Management Objectives</b>									
Marine Area 2.2 impact rate				23			< 2% total		
Commercial impact rate									
Total Impacts									
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>772</b>	<b>2,318</b>	<b>3,090</b>	<b>7,570</b>	<b>6,343</b>	<b>13,913</b>			<b>6,491</b>
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
<b>QIN Treaty Harvest</b>	<b>2,851</b>	<b>1,191</b>	<b>4,042</b>	<b>9,861</b>	<b>8,178</b>	<b>18,039</b>			<b>10,860</b>
<b>Total GH Harvest</b>	<b>3,740</b>	<b>3,508</b>	<b>7,248</b>	<b>17,751</b>	<b>15,597</b>	<b>33,348</b>			<b>17,352</b>
<b>Expected Escapement</b>	<b>11,261</b>	<b>3,364</b>	<b>14,625</b>	<b>29,176</b>	<b>22,275</b>	<b>51,451</b>			<b>15,297</b>
	2,065								
<b>Harvest Rates</b>									
<b>Non-treaty Harvest Rate</b>	<b>5.15%</b>	<b>33.73%</b>	<b>14.13%</b>	<b>16.13%</b>	<b>16.75%</b>	<b>16.41%</b>			<b>19.88%</b>
Proportion of Rec Marine Area 2.2									<b>4.44%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>19.00%</b>	<b>17.33%</b>	<b>18.48%</b>	<b>21.01%</b>	<b>21.59%</b>	<b>21.27%</b>			<b>33.26%</b>
<b>Total GH Harvest Rate</b>	<b>24.93%</b>	<b>51.05%</b>	<b>33.14%</b>	<b>37.83%</b>	<b>41.18%</b>	<b>39.33%</b>			<b>53.15%</b>

**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
<b>Chehalis River Management Objectives</b>									
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%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>433</b>	<b>152</b>	<b>584</b>	<b>6,497</b>	<b>4,160</b>	<b>10,657</b>			<b>4,016</b>
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
<b>QIN Treaty Harvest</b>	<b>2,231</b>	<b>438</b>	<b>2,669</b>	<b>9,013</b>	<b>5,549</b>	<b>14,562</b>			<b>6,829</b>
<b>Total Chehalis Basin Harvest</b>	<b>2,780</b>	<b>590</b>	<b>3,371</b>	<b>15,830</b>	<b>10,784</b>	<b>26,614</b>			<b>10,846</b>
<b>Expected Escapement</b>	<b>8,364</b>	<b>1,599</b>	<b>9,962</b>	<b>27,483</b>	<b>15,882</b>	<b>43,365</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>3.9%</b>	<b>6.94%</b>	<b>4.38%</b>	<b>15.00%</b>	<b>15.60%</b>	<b>15.23%</b>			<b>12.30%</b>
<b>Total Recreational harvest rate</b>	<b>3.72%</b>	<b>6.65%</b>	<b>4.20%</b>	<b>12.45%</b>	<b>13.05%</b>	<b>12.67%</b>			<b>0.96%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.02%</b>	<b>20.81%</b>	<b>20.81%</b>	<b>20.81%</b>			<b>20.92%</b>
<b>Total Chehalis Basin Harvest Rate</b>	<b>24.95%</b>	<b>26.96%</b>	<b>25.28%</b>	<b>36.55%</b>	<b>40.44%</b>	<b>38.03%</b>			<b>33.22%</b>
<b>HUMPTULIPS RIVER BASIN</b>									
	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
<b>Humptulips River Management Objectives</b>									
Marine Area 2.2 impact rate	37%			18 - 34%					
Commercial impact rate in 2C Only	< 5.4%								
Total Impacts				< 5%					
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>144</b>	<b>2,070</b>	<b>2,215</b>	<b>100</b>	<b>1,511</b>	<b>1,611</b>			<b>37</b>
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
<b>QIN Treaty Harvest</b>	<b>620</b>	<b>752</b>	<b>1,372</b>	<b>848</b>	<b>2,629</b>	<b>3,477</b>			<b>4,031</b>
<b>Total Humptulips Basin Harvest</b>	<b>764</b>	<b>2,823</b>	<b>3,587</b>	<b>948</b>	<b>4,140</b>	<b>5,088</b>			<b>4,068</b>
<b>Expected Escapement</b>	<b>3,093</b>	<b>1,860</b>	<b>4,953</b>	<b>2,666</b>	<b>7,066</b>	<b>9,731</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>3.75%</b>	<b>44.21%</b>	<b>25.93%</b>	<b>2.77%</b>	<b>13.48%</b>	<b>10.87%</b>			<b>0.11%</b>
<b>Total Recreational harvest rate</b>	<b>3.14%</b>	<b>43.15%</b>	<b>25.08%</b>	<b>2.14%</b>	<b>12.85%</b>	<b>10.24%</b>			<b>0.11%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>16.07%</b>	<b>16.07%</b>	<b>16.07%</b>	<b>23.46%</b>	<b>23.46%</b>	<b>23.46%</b>			<b>12.35%</b>
<b>Total Harvest Rate</b>	<b>19.81%</b>	<b>60.28%</b>	<b>42.00%</b>	<b>26.23%</b>	<b>36.95%</b>	<b>34.33%</b>			<b>12.46%</b>

## 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
<b>Management Objectives</b>									
Marine Area 2.2 impact rate									< 2% total
Commercial impact rate				23					
Total Impacts									
<b>Harvest Impacts</b>									
<b>WDFW-managed fishery Harvest</b>	<b>577</b>	<b>2,222</b>	<b>2,799</b>	<b>6,597</b>	<b>5,671</b>	<b>12,268</b>			<b>4,053</b>
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
<b>QIN Treaty Harvest</b>	<b>2,851</b>	<b>1,191</b>	<b>4,042</b>	<b>9,861</b>	<b>8,178</b>	<b>18,039</b>			<b>10,860</b>
<b>Total GH Harvest</b>	<b>3,545</b>	<b>3,413</b>	<b>6,958</b>	<b>16,778</b>	<b>14,924</b>	<b>31,702</b>			<b>14,913</b>
<b>Expected Escapement</b>	<b>11,456</b>	<b>3,459</b>	<b>14,915</b>	<b>30,149</b>	<b>22,948</b>	<b>53,097</b>			<b>17,736</b>
	<b>1,870</b>								
<b>Harvest Rates</b>									
<b>Non-treaty Harvest Rate</b>	<b>3.85%</b>	<b>32.34%</b>	<b>12.80%</b>	<b>14.06%</b>	<b>14.97%</b>	<b>14.47%</b>			<b>12.41%</b>
Proportion of Rec Marine Area 2.2									<b>9.92%</b>
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%
<b>QIN Treaty Harvest Rate</b>	<b>19.00%</b>	<b>17.33%</b>	<b>18.48%</b>	<b>21.01%</b>	<b>21.59%</b>	<b>21.27%</b>			<b>33.26%</b>
<b>Total GH Harvest Rate</b>	<b>23.63%</b>	<b>49.66%</b>	<b>31.81%</b>	<b>35.75%</b>	<b>39.41%</b>	<b>37.39%</b>			<b>45.68%</b>