

## 2020 Grays Harbor Fall Salmon Management Summary Table

### Model A Base – 2020 Forecasts with 2019 fisheries (PFMC Coho run 2016B)

CHEHALIS RIVER BASIN									
	Chinook			Coho			Chum		
	Natural	Hatchery	Total	Natural	Hatchery	Total	Natural	Hatchery	Total
Escapement Goals	11,144	2,189	13,333	43,222	26,607	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	14,716	25,107	39,824			11,649
	696	806	1,501	7,358	12,554	19,912			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 Rate</b>	<b>552</b>	<b>184</b>	<b>736</b>	<b>6,402</b>	<b>4,780</b>	<b>11,182</b>			<b>6,280</b>
Marine Area 2.2 Harvest	170	83	253	1,168	861	2,029			35
Freshwater Harvest	257	72	329	3,663	2,953	6,616			653
Commercial Harvest (Area 2A, 2D)	126	29	155	1,570	966	2,537			5,592
Chehalis Tribal Harvest	117	0	117	318	1,073	1,391			0
<b>QIN Treaty Harvest</b>	<b>2,231</b>	<b>438</b>	<b>2,669</b>	<b>8,994</b>	<b>5,537</b>	<b>14,531</b>			<b>6,829</b>
<b>Total Chehalis Basin Harvest</b>	<b>2,900</b>	<b>622</b>	<b>3,523</b>	<b>15,714</b>	<b>11,390</b>	<b>27,103</b>			<b>13,109</b>
<b>Expected Escapement</b>	<b>8,244</b>	<b>1,567</b>	<b>9,810</b>	<b>27,509</b>	<b>15,218</b>	<b>42,726</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>5.0%</b>	<b>8.40%</b>	<b>5.52%</b>	<b>14.81%</b>	<b>17.97%</b>	<b>16.01%</b>			<b>19.23%</b>
<b>Total Recreational harvest rate</b>	<b>3.83%</b>	<b>7.08%</b>	<b>4.36%</b>	<b>11.18%</b>	<b>14.33%</b>	<b>12.38%</b>			<b>2.11%</b>
Proportion of Rec Marine Area 2.2	39.8%	53.81%	43.51%	24.2%	22.57%	23.47%			5.05%
Proportion of Rec Freshwater	60.23%	46.19%	56.49%	75.82%	77.43%	76.53%			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>26.03%</b>	<b>28.42%</b>	<b>26.42%</b>	<b>36.36%</b>	<b>42.81%</b>	<b>38.81%</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	3,606	11,180	14,787	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	-3,288	10,780	7,493			11,649
	142	2,157	2,299	-1,644	5,390	3,746			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>Non-treaty Harvest</b>	<b>226</b>	<b>2,243</b>	<b>2,469</b>	<b>140</b>	<b>1,695</b>	<b>1,835</b>			<b>212</b>
Marine Area 2.2 Harvest	15	199	213	19	253	272			0
Freshwater Harvest	110	1,918	2,028	66	1,267	1,333			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>846</b>	<b>2,623</b>	<b>3,470</b>			<b>4,031</b>
<b>Total Humptulips Basin Harvest</b>	<b>846</b>	<b>2,996</b>	<b>3,842</b>	<b>987</b>	<b>4,318</b>	<b>5,305</b>			<b>4,243</b>
<b>Expected Escapement</b>	<b>3,011</b>	<b>1,687</b>	<b>4,698</b>	<b>2,620</b>	<b>6,862</b>	<b>9,482</b>			<b>N/A</b>
<b>Harvest Rates</b>									
<b>WDFW-managed fishery Harvest Rate</b>	<b>5.86%</b>	<b>47.90%</b>	<b>28.92%</b>	<b>3.89%</b>	<b>15.16%</b>	<b>12.41%</b>			<b>0.65%</b>
<b>Total Recreational harvest rate</b>	<b>3.23%</b>	<b>45.21%</b>	<b>26.25%</b>	<b>2.34%</b>	<b>13.60%</b>	<b>10.86%</b>			<b>0.29%</b>
Proportion of Rec Marine Area 2.2	11.7%	9.39%	9.52%	22.2%	16.66%	16.96%			See above
Proportion of Rec Freshwater	88.30%	90.61%	90.48%	77.76%	83.34%	83.04%			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>21.93%</b>	<b>63.97%</b>	<b>44.98%</b>	<b>27.36%</b>	<b>38.62%</b>	<b>35.87%</b>			<b>13.00%</b>

## 2020 Grays Harbor Fall Salmon Management Summary Table

### Model A Base – 2020 Forecasts with 2019 fisheries (PFMC Coho run 2016B) 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	46,829	37,788	84,616	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	11,429	35,888	47,316			11,649
	838	2,963	3,800	5,714	17,944	23,658			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 Harvest</b>	<b>779</b>	<b>2,427</b>	<b>3,206</b>	<b>6,542</b>	<b>6,475</b>	<b>13,017</b>			<b>6,491</b>
Marine Area 2.2 Harvest	184	282	466	1,187	1,114	2,301			35
Freshwater Harvest	367	1,990	2,357	3,729	4,220	7,949			748
Commercial Harvest	227	155	382	1,626	1,140	2,766			5,709
<i>Chehalis Tribe</i>	117	0	117	318	1,073	1,391			0
<i>Total NT - Harvest</i>	895	2,427	3,323	6,860	7,548	14,408			6,491
<b>QIN Treaty Harvest</b>	<b>2,851</b>	<b>1,191</b>	<b>4,042</b>	<b>9,840</b>	<b>8,160</b>	<b>18,000</b>			<b>10,860</b>
<b>Total GH Harvest</b>	<b>3,746</b>	<b>3,618</b>	<b>7,364</b>	<b>16,700</b>	<b>15,708</b>	<b>32,408</b>			<b>17,352</b>
<b>Expected Escapement</b>	<b>11,255</b>	<b>3,254</b>	<b>14,509</b>	<b>30,128</b>	<b>22,080</b>	<b>52,208</b>			<b>15,297</b>
	<b>2,071</b>								
<b>Harvest Rates</b>									
<b>Non-treaty Harvest Rate</b>	<b>5.19%</b>	<b>35.32%</b>	<b>14.66%</b>	<b>13.97%</b>	<b>17.13%</b>	<b>15.38%</b>			<b>19.88%</b>
Proportion of Rec Marine Area 2.2									<b>4.44%</b>
Marine Area 2.2 harvest rate	1.23%	4.11%	2.13%	2.53%	2.95%	2.72%			0.11%
Freshwater harvest rate	2.45%	28.96%	10.78%	7.96%	11.17%	9.39%			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>24.97%</b>	<b>52.65%</b>	<b>33.67%</b>	<b>35.66%</b>	<b>41.57%</b>	<b>38.30%</b>			<b>53.15%</b>