

# 2019 Ridgefield North of Falcon

## 2018 COLUMBIA RIVER SUMMER/FALL FISHERIES AND RUN SIZES

### 2019 PRESEASON FORECASTS

*All data preliminary and subject to change*

**March 18, 2019**

#### 2018 RETURNS AND CONSERVATION OBJECTIVES

##### Upper Columbia Summer Chinook

- Pre-season forecast was 67,300 fish.
- Actual return was about 42,100 fish (63% of forecast).

##### Snake River Wild (SRW)/Upriver Bright (URB)

- Preseason
  - URB run size = 205,100
  - Snake River wild (SRW) run size = 9,600
  - Total allowable URB harvest rate (HR) = 45%
  - Since the URB forecast barely exceeded the 200,000 breakpoint for URB harvest rates, the states managed fisheries for a run size of less than 200,000 (8.25% HR rather than 15% HR)
  - Non-Treaty fisheries HR expectation = 8.24%
  - Treaty Indian fisheries HR expectation = 30%
- Actual
  - URB run size = 149,000 (73% of forecast)
  - SRW run size = 10,600 (111% of forecast)
  - Total URB HR = 29.58% (31.25% allowed)
  - Non-Treaty fisheries URB HR = 9.35% (8.25% allowed)
  - Treaty Indian fisheries URB HR = 20.22% (23.0% allowed)

##### Lower Columbia River Tules (LCR)

- Preseason
  - Lower River Hatchery tule (LRH) run size = 63,900
  - Total allowable ocean and Columbia River exploitation rate (ER) = 38%
  - Total ocean and Columbia River ER expectation = 36.3%
  - Columbia River ER expectation = 9.0%
- Actual
  - LRH run size = 53,000 (83% of forecast)
  - Total ocean and Columbia River ER = 34.5%
  - Columbia River ER = 8.9%

### Lower River Natural Coho (LCN)

- Preseason
  - Columbia River Coho run size = 213,600 (127,200 early stock, 86,400 late stock)
  - Total allowable ocean and Columbia River ER = 18%
  - Total ocean and Columbia River ER expectation = 15.3%
  - Columbia River ER (including Buoy 10) expectation = 5.4%
- Actual
  - Columbia River Coho run size = 147,300 (69% of forecast; 82,700 early stock, 64,600 late stock)
  - Preliminary estimates total 11.1% ER for ocean and in-river fisheries.
  - Columbia River ER (including Buoy 10) = 1.7%

### Upriver Summer Steelhead

- Preseason
  - Bonneville Dam passage (July – October) = 190,400 (3,400 wild B-Index)
  - Non-Treaty ESA impact limit = 2.0% wild A-index and 2.0% wild B-Index
- Actual
  - Bonneville Dam passage (July – October) = 100,500 (53% of forecast), return included 2,380 wild B-Index (70% of forecast)
  - Non-Treaty ESA impact = <1% wild A-Index; <1% wild B-Index (both preliminary)

## **2018 FISHERY GUIDANCE**

Columbia River fisheries were managed to meet the following guidelines and objectives:

### Federal/State Endangered Species Act

- Sockeye, steelhead, Chinook, Coho, Chum

### US v OR Management Agreement (MA)

- New 2018-2027 MA in effect

### OFWC/WFWC Guidance

- Impact/Allocation sharing
  - Summer Chinook: harvestable surplus available to in-river fisheries <PRD allocated 80% to recreational, 20% to commercial
  - Sockeye: ~80% of allowable Snake River ESA impacts to recreational, balance to commercial for incidental harvest in Chinook-directed fisheries.
  - Fall Chinook (LRH and SRW)
    - No more than 70% of allowable ESA impacts on the most constraining Chinook stock to recreational, no less than 30% to commercial.

### WDFW/Colville Tribe Upper Columbia Management Agreement

- Upper Columbia summer Chinook

## 2018 NON-TREATY FISHERIES REVIEW

### Recreational Fisheries:

- The summer Chinook recreational fishery downstream of Bonneville Dam was scheduled to be open for hatchery Chinook retention from June 22 through July 4. The daily bag limit was two fish/two hatchery Chinook. The actual Chinook retention season was open June 22-30; sockeye retention was allowed from July 1-31.
  - Total catch estimates include 1,021 Chinook kept (356 released), 451 hatchery steelhead kept (291 steelhead released) from 9,636 angler trips during the Chinook retention season. The number of kept Chinook was the lowest since 2001. Total Chinook mortalities (1,140) during the summer management period were 367% of the post-season allocation for this area.
- The summer Chinook recreational fishery between Bonneville and McNary dams was open for hatchery Chinook retention from June 22 through July 6. The Chinook recreational fishery between McNary and Priest Rapids dams was open for hatchery Chinook retention through July 16. Sockeye retention was allowed beginning July 1 in both areas. The daily bag limit was two fish/two hatchery Chinook.
  - Season total catch estimates include 120 hatchery Chinook kept and 92 released. Anglers in this area harvested 244% of the summer Chinook allocation, using 134 of the available 55 Chinook mortalities.
- The Buoy 10 sport fishery opened August 1 with a daily bag limit of one adult salmonid. Chinook retention did not include any mark-selective periods. The fishery was scheduled to close to Chinook retention after August 24 but continue for Coho and steelhead retention with a two hatchery adult salmonid (no more than one steelhead) daily bag limit through December 31. Preseason harvest expectations (kept plus release mortalities) included 15,400 Chinook (3.7% LCR Chinook ER and 1.7% SRW harvest rate) and 27,500 Coho.
  - The Chinook-retention portion of the fishery occurred as expected. Due to lower than expected returns, steelhead retention was prohibited effective August 27; further, due to an in-season downgrade of the expected URB return, all angling for salmonids was closed effective September 13.
  - Season total catch estimates include 11,620 kept Chinook (5,039 released), 6,761 Coho kept (5,890 released), and 50 steelhead kept (42 released) from 67,318 angler trips.
  - Chinook catches were lower than expected, but consistent with the actual Chinook return which was 78% of preseason expectations. Coho catches were much lower than expected, and even less than what was expected based on the actual return which was 69% of the preseason forecast.
- The fall LCR sport fishery opened August 1; similar to past years, the fishery was split into two major sections (upstream/downstream of the Lewis River/Warrior Rock line). A daily bag limit of one adult salmonid was planned for the area downstream of Warrior Rock through September 2. Beginning September 3, Chinook retention would close while Coho and steelhead retention was to continue with a two hatchery adult salmonid (no

more than one steelhead) daily bag limit through December 31. For the area upstream of Warrior Rock, the pre-season plan included Chinook retention from August 1 – September 14 with a one adult salmonid daily bag limit; after Chinook retention closed, Coho and steelhead retention would continue with a two hatchery adult salmonid (no more than one steelhead) daily bag limit through December 31. Preseason harvest expectations (kept plus release mortalities) included 10,100 Chinook (0.9% LCR Chinook ER and 3.5% SRW harvest rate) and 1,600 Coho for all areas combined.

- The Chinook retention season in the area downstream of Warrior Rock occurred as planned; however, as in the rest of the mainstem, steelhead retention was prohibited effective August 27 then all angling for salmonids was closed effective September 13.
  - Season total catch estimates include 9,802 kept Chinook (877 released), 650 Coho kept (417 released), and 1,104 steelhead kept (861 released) from 69,629 angler trips.
  - The total and bright-stock Chinook catches were similar to expectations, but the season was shorter and run size smaller than expected.
  - “Party Fishing” regulations were in effect all season which allow each legal angler aboard a vessel to continue fishing until the daily limit for all anglers aboard was achieved.
- The recreational fishery from Bonneville Dam upstream to the Highway 395 Bridge near Pasco, Washington was planned to open August 1 and be managed based on in-season harvest estimates and run-size updates. Regulations included Chinook retention open August 1 – December 31 with a two adult fish daily bag limit, except Chinook and steelhead retention were both limited to one fish/day. In-season regulations mirrored those adopted for the rest of the river, with steelhead retention prohibited effective August 27 then all angling for salmonids closed effective September 13.
    - Season total catch estimates include 958 kept Chinook (97 released), 12 Coho kept (6 released), and 39 steelhead kept (4 released) from 5,659 angler trips.
    - “Party Fishing” regulations were in effect all season.

#### Commercial Fisheries:

- A commercial summer Chinook fishery did not occur. Current WA and OR Commission guidance requires the use of gear other than traditional gillnets for this fishery. Based on results of recent gear evaluations, and the limited commercial sockeye allocation, there are few alternative gears available to access the commercial share of summer Chinook, especially in an open-competitive fishery.
- The preseason plan for the Early Fall commercial drift net fishery was for six 9-hour fishing periods in Zones 4-5 during the last three weeks of August. The actual August season consisted of four periods between 7 and 9 hours in duration in Zones 4-5 with a 9-inch minimum mesh restriction. The actual catch of 8,320 Chinook was less than the preseason expectation of 10,000. Coho landings were also low at 380 fish. Deliveries ranged from 58–84 each period. Ex-vessel value averaged \$2.91/lb for Chinook and \$1.86/lb for Coho. The average weight for Chinook was 15.43 lbs/fish. Limited on-board

observation occurred throughout the fishery to evaluate steelhead handle. A Coho-directed fishery using tangle net gear during the month of October was planned pre-season but did not occur because URB/SRW impacts were not available due to the in-season run downgrade.

<b>2018 Non-Treaty Summer Chinook Fisheries Summary</b> <i>(All data preliminary and includes kept + release mortalities)</i>				
	<b>Preseason</b>		<b>Postseason</b>	
<b>Runsize</b>	67,300		42,120	
Harvest allocated Fishery	Allowed Pre	Post	Actual Take	Actual/ Allowed
PFMC Ocean Fisheries	9,696	3,983	3,983	100%
Below Priest Rapids Dam (PRD)	32.4%	10.0%	21.6%	
Commercial below BON	708	91	24	26%
Recreational Below Bonneville	2,408	311	1,140	367%
Recreational BON to PRD	425	55	134	244%
Below PRD Total	3,541	457	1,298	284%
Above Priest Rapids Dam (PRD)	67.6%	90.0%	78.4%	
Wanapum Tribal	120	68	68	100%
Colville Tribal	3,693	2,878	1,268	44%
Recreational above PRD	3,573	1,165	3,385	290%
Above PRD Total	7,387	4,112	4,721	115%
<b>Non-Treaty Total</b>	<b>20,624</b>	<b>8,552</b>	<b>10,002</b>	<b>117%</b>

2018 Fall Chinook Non-Treaty Catch Sharing - Preseason						
SRW - IMPACTS				Brights - Mainstem		
	Impact	Percent		Mortalities	Percent	Harvest
Sport	5.73%	70%		Sport	18,000	76%
Comm	2.51%	30%		Comm	5,600	24%
LRH - Impacts				Chinook - Mainstem		
	Impact	Percent		Mortalities	Percent	Harvest
Sport	4.58%	73%		Sport	27,100	72%
Comm	1.73%	27%		Comm	10,700	28%

Non-Treaty Catch Sharing - Postseason						
SRW - IMPACTS				Brights - Mainstem		
	Impact	Percent		Mortalities	Percent	Harvest
Sport	7.11%	76%		Sport	15,200	80%
Comm	2.24%	24%		Comm	3,900	20%
LRH - Impacts				Chinook - Mainstem		
	Impact	Percent		Mortalities	Percent	Harvest
Sport	6.70%	75%		Sport	24,200	77%
Comm	2.17%	25%		Comm	7,400	23%

Columbia River Fall Chinook Fishery Model Summary				11-Apr-18 12:21 PM		MR2018-Final Preseason									
Ocean Option:	April 8 PFMC Ocean Option 2														
Columbia River Model Option:	Model	MR2018-Final Preseason													
Average URB % by Fishery (Sport) Time Blocks															
				2018 Fall Chinook Non-Treaty Catch Sharing - Preseason											
<b>Management Guidelines</b>		<b>Goal/Guideline</b>	<b>SRW</b>	<b>Total URB</b>	SRW - IMPACTS			Brights - Mainstem							
Harvest Rate	38.25%	38.24%	38.24%		Impact	Percent	Mortalities	Percent	Harvest						
Non-Treaty	8.25%	8.24%	8.24%		Sport	5.73%	70%	Sport	18,000						
Treaty	30.0%	30.0%	30.0%		Comm	2.51%	30%	Comm	5,600						
% of Harvestable Surplus					LRH - Impacts			Chinook - Mainstem							
Non-Treaty	50%	29%			Impact	Percent	Mortalities	Percent	Harvest						
Treaty	50%	41%			Sport	4.58%	73%	Sport	27,100						
McNary Escapement	60,000	116,900			Comm	1.73%	27%	Comm	10,700						
LRH Ocean/Inriver Exp. Rate	38%	36.3%													
Non-Treaty Wild B Index Steelhead	2%	1.8%													
Treaty Total B Index Steelhead	15%	15%													
Upriver Coho to Bonneville Dam	50%	65%													
Lower Columbia Chum	5%	0.03%													
				<b>Total</b>	<b>LRH</b>	<b>LRW</b>	<b>BPH</b>	<b>URB</b>	<b>BUB</b>	<b>LRB</b>	<b>PUB</b>	<b>SAB</b>	<b>SRW</b>	<b>LRH</b>	<b>SRW</b>
<b>Ocean Harvest</b>				55,770	11,530	2,600	14,890	22,130	0	400	4,210			ER	HR
<b>Columbia River Run</b>				375,520	63,910	7,860	51,420	205,060	0	3,760	38,200	5,300	9,600	6.3%	7.8%
<b>Harvest Below Bonneville</b>				<b>Fishery Description</b>											
Zone 4-5 Wk 33			2 days	2,540	370	0	950	1,050	0	0	160	0	50	0.3%	0.5%
Zone 4-5 Wk 34			3 days	3,810	560	0	1,420	1,580	0	10	240	0	70	0.5%	0.8%
Zone 4-5 Wk 35			1 day	3,630	440	10	1,280	1,590	0	20	280	10	70	0.4%	0.8%
Oct Coho Tanglenet		October	Coho target	730	100	30	10	520	0	0	70	0	20	0.1%	0.3%
Select Areas			Full Season	8,880	5,320	0	270	410	0	0	60	2,810	20	0.4%	0.2%
Buoy 10 Kept + Morts	1 salmonid	Non MSF	Aug 1 - 24	15,400	3,380	140	3,460	3,570	0	70	750	2,880	170	3.7%	1.7%
TP to Lewis	1 salmonid	Non MSF	Aug 1 - Sept 2	4,260	540	140	140	2,770	0	50	620	20	130	0.6%	1.3%
Lewis to Bonn	1 salmonid	Non MSF	Aug 1 - Sept 14	5,790	230	0	160	4,430	0	100	870	0	210	0.3%	2.2%
Tributary Sport	MSF		Full season	4,100	3,250	850	0	0	0	0	0	0	0	0.0%	0.0%
<b>Lower River Total</b>				<b>49,130</b>	<b>14,200</b>	<b>1,170</b>	<b>7,700</b>	<b>15,920</b>	<b>0</b>	<b>240</b>	<b>3,050</b>	<b>5,710</b>	<b>750</b>	<b>6.3%</b>	<b>7.76%</b>
Bonneville Dam Passage				253,090			40,280	189,140	0		23,660		8,850		
<b>Harvest Above Bonneville</b>															
Zone 6 - Bonn to Hwy 395	1 Chinook		Manage Inseason	1,630				980	0		650		50		0.5%
Treaty Comm. and C&S			Average season	91,470			21,280	60,450	0		9,730		2,830		29.5%
Hanford Reach Sport			Average season	7,790				7,790					0		
McNary Dam Passage				116,880				116,880							
Lower Granite Dam Passage															

Columbia River Fall Chinook Fishery Model Summary													
Ocean Option:	Preliminary Post season	Date: March 8, 2019		<b>MR2018-Postseason</b>									
Columbia River Model Option:	Model	MR2018-Postseason											
Average URB % by Fishery (Sport) Time Blocks													
<b>Management Guidelines</b>				<b>Non-Treaty Catch Sharing</b>									
	<b>Goal/Guideline</b>	<b>Actual SRW</b>	<b>Actual Total URB</b>	<b>SRW - IMPACTS</b>			<b>Brights - Mainstem</b>						
Harvest Rate	38.25%	29.58%	29.58%		Impact	Percent		Mortalities	Percent	Harvest			
Non-Treaty	8.25%	9.35%	9.35%	Sport	7.11%	76%		Sport	15,200	80%	14,900		
Treaty	30.0%	20.22%	20.22%	Comm	2.24%	24%		Comm	3,900	20%	3,900		
<b>Management Guidelines</b>				<b>LRH - Impacts</b>			<b>Chinook - Mainstem</b>						
	<b>Goal/Guideline</b>	<b>Actual</b>			Impact	Percent		Mortalities	Percent	Harvest			
Non-Treaty % of Harvestable Surplus	50%	37%		Sport	6.70%	75%		Sport	24,200	77%	23,800		
Treaty % of Harvestable Surplus	50%	42%		Comm	2.17%	25%		Comm	7,400	23%	7,400		
McNary Escapement	60,000	100,000											
LRH Ocean/Inriver Exp. Rate	38%	34.5%											
Non-Treaty Wild B Index Steelhead	2%	<1%											
Treaty Total B Index Steelhead	15%	5.08%											
Upriver Coho to Bonneville Dam	50%	71%											
Lower Columbia Chum	5%	0.05%											
				<b>Total</b>	<b>LRH</b>	<b>LRW</b>	<b>BPH</b>	<b>URB</b>	<b>BUB</b>	<b>LRB</b>	<b>PUB</b>	<b>SAB</b>	<b>SRW</b>
<b>Ocean Harvest</b>				34,750	8,390	2,050	6,880	12,610	0	1,160	3,650		
<b>Columbia River Run</b>				293,420	52,960	8,270	28,860	149,040	0	14,240	36,010	4,040	10,640
<b>Harvest Below Bonneville</b>				<b>Fishery Description</b>									
Zone 4-5 Wk 33				0	0	0	0	0	0	0	0	0	0
Zone 4-5 Wk 34				3,350	100	0	1,070	1,630	0	20	220	0	120
Zone 4-5 Wk 35				4,970	760	0	1,560	1,650	0	150	210	0	120
Oct Coho Tanglenet				0	0	0	0	0	0	0	0	0	0
Select Areas				6,600	4,480	0	150	70	0	0	20	1,740	0
Buoy 10 Kept + Morts				12,570	4,500	600	1,690	3,010	0	10	210	1,440	210
TP to Lewis				5,070	150	0	190	4,390	0	0	90	170	310
Lewis to Bonn				5,590	100	0	730	3,120	0	600	650	0	220
Tributary Sport				3,120	2,660	460	0	0	0	0	0	0	0
<b>Lower River Total</b>				<b>41,280</b>	<b>12,770</b>	<b>1,050</b>	<b>5,390</b>	<b>13,860</b>	<b>0</b>	<b>780</b>	<b>1,390</b>	<b>3,340</b>	<b>990</b>
Bonneville Dam Passage				190,180			21,340	135,120	0		33,660		9,650
<b>Harvest Above Bonneville</b>													
Zone 6 - Bonn to Hwy 395				1 Chinook				80	0		890		10
Treaty Comm. and C&S							10,560	30,140	0		13,710		2,150
Harford Reach Sport								8,560					0
McNary Dam Passage								100,030					
Lower Granite Dam Passage													
<b>Escapement</b>													
Hatchery				40,200			10,780		0		19,060	700	
Natural				21,040			10,400		0		7,180	440	
Natural				19,090	7,220	340	100,030		0	13,460	4,270	190	
Hatchery Surplus				5,450			3,400		0		1,830	(560)	
Natural Surplus						(401)	(960)	40,030					



<b>2018 Preseason Expectations and Post-season Actual Coho Harvest and Exploitation Rates</b>		
Harvest Summary (kept + release mortalities)		
	<b>Total Harvest Mortalities</b>	
Fishery	Preseason	Post-season
Mainstem Commercial (all gears)	13,583	380
Select Area Commercial	36,141	12,111
B10 Sport	27,468	7,206
LCR Sport	1,576	1,071
Ocean Fisheries	76,890	43,025
<b>Total Harvest/Mortalities</b>	<b>155,658</b>	<b>63,793</b>
	<b>Exploitation Rate</b>	
Fishery	Preseason	Post-season
Mainstem Commercial (all gears)	1.90%	0.34%
Select Area Commercial	0.28%	0.10%
B10 Sport	3.16%	1.12%
LCR Sport	0.09%	0.16%
Ocean Fisheries	9.90%	9.41%
<b>Total Exploitation Rate</b>	<b>15.32%</b>	<b>11.14%</b>

## **2019 FORECASTS, CONSERVATION OBJECTIVES, AND POLICY GUIDANCE**

### Upper Columbia Summer Chinook

- Forecast = 35,900
- Below Priest Rapids Dam available harvest allocations TBD. WFWC currently allocates 70% sport and 30% commercial; OFWC currently allocates 80% sport and 20% commercial
- No directed commercial or sport retention fisheries below Priest Rapids Dam given expected ocean harvest and sharing allocations within the Upper Columbia Management Plan.
- Reserve impacts to prosecute Select Areas and recreational summer steelhead fishery.

### Upriver Summer Steelhead

- Forecast = 127,000 (Skamania + A-Index + B-Index)
  - A-Index = 110,000 (34,000 wild)
  - B-Index = 8,000 (950 wild)
- Non-treaty fisheries allowed 2% impact rate on both wild A-Index and wild B-Index.
- Given the poor expected return for upriver summer steelhead, fishery restrictions similar to those enacted in 2017 may likely be considered, for example:
  - Daily bag limit may not include more than one hatchery steelhead
  - Night fishing closures
  - Rolling 1-2 month steelhead retention closures for mainstem and some tributary recreational fisheries
    - August: Buoy 10 to The Dalles Dam
    - September: The Dalles Dam to John Day Dam
    - September and October: John Day Dam to McNary Dam
    - October and November: McNary Dam to Hwy 395 Bridge (Pasco)

### Lower Columbia River (LCR) Tule Fall Chinook

- Total ocean and Columbia River ER limit = 38%
- Columbia River ER = currently assumed to be ~11%
- Not likely to be a constraint in 2019

### Snake River Wild/Upriver Bright (URB) Fall Chinook

- Non-treaty harvest rate is 8.25%
- Non-treaty exceeded its ESA share in 2017 and 2018, but the overall ESA limit (Non-treaty + Treaty) has not been exceeded

### Columbia River Coho

- Harvest matrix in place since 2015
- Pre-NOF ocean abundance forecast = 905,600
  - 545,000 early stock, 360,600 late stock
- Total ocean and Columbia River ER limit = 23% on Lower River Natural (LCN) Coho

### Commission Guidance

- Summer
  - Harvest allocations TBD. WFWC policy is 70% recreational 30% commercial. OFWC is currently 80% recreational and 20% commercial. Gillnets allowed under current WA Policy.
- Fall
  - Recreational no more than 70% and commercial not less than 30% for most constraining fall Chinook stock (URB in 2019).
  - LCN Coho impacts prioritized to Select Area fisheries and mainstem commercial Chinook fisheries, followed by recreational fisheries, and then Coho-directed mainstem commercial fisheries. Current OFWC guidance includes commercial hatchery Coho fisheries in first tier.
  - Gillnets allowed in the mainstem – Chinook (OR and WA Policy) and Coho (WA Policy)
- Other
  - Rescind barbless hook regulation in Columbia River by June 1, 2019 (WA Policy)

<b>Columbia River Fall Chinook Returns</b>			
	<b>2018</b>		<b>2019</b>
<b>Stock</b>	<b>Forecast</b>	<b>Return</b>	<b>Forecast</b>
Lower River Hatchery - LRH	63,900	53,000	54,500
Lower River Wild - LRW	7,900	8,300	13,700
Lower River Bright - LRB	3,800	14,200	8,000
Bonneville Pool Hatchery - BPH	51,400	28,900	46,000
Upriver Bright – URB	205,100	149,000	158,400
<i>Snake River Wild (SRW)<sup>1</sup></i>	9,600	10,600	8,600
Pool Upriver Bright - PUB	38,200	36,000	56,700
Select Area Bright - SAB	5,300	4,000	3,100
<b>Lower River Total</b>	<b>80,800</b>	<b>79,500</b>	<b>79,300</b>
<b>Upriver Total</b>	<b>294,700</b>	<b>213,900</b>	<b>261,100</b>
<b>Columbia River Total</b>	<b>375,500</b>	<b>293,400</b>	<b>340,400</b>
<i>2018 forecast is post-NOF; 2019 is pre-NOF</i>			
<i>SRW sub-component of URB</i>			

**CONSIDERATIONS FOR 2019 FISHERIES**

- Non-treaty fisheries exceeded the SRW impact rate allowance in 2017 and 2018.

<b>2017-2018 SRW Fall Chinook Impacts by Fishery</b>					
Fishery	2017		2018		Average % Post/Pre
	Pre	Post	Pre	Post	
Aug Z 4-5	4.1%	4.0%	2.1%	2.2%	101.5%
Coho Tangle net	0.0%	0.0%	0.3%	0.0%	0%
Select Areas	0.2%	0.3%	0.2%	0.0%	93.4%
Buoy 10	1.6%	4.1%	1.7%	2.0%	185.2%
TP to Lewis	2.2%	2.0%	1.3%	2.9%	154.1%
Lewis to Bonneville	3.2%	4.8%	2.2%	2.1%	123.4%
Bonneville to Hwy 395	0.7%	0.9%	0.5%	0.1%	67.5%
<b>Total</b>	<b>12.01%</b>	<b>16.00%</b>	<b>8.24%</b>	<b>9.35%</b>	<b>123.3%</b>
Commercial	4.3%	4.3%	2.5%	2.2%	94.1%
Sport	7.7%	11.7%	5.7%	7.1%	138.3%

- The LCR fall sport fishery has seen an increase in angler effort over time, averaging 41,000 trips per year in the 1980’s, 54,000 angler trips in the 1990’s, 94,000 trips in the 2000’s, and 125,000 trips since 2010
  - Annual fall Chinook catch has also increased, averaging 2,300 during the 1980s, 5,000 during 1990’s, 14,700 during the 2000’s, and 25,400 since 2010.
  - Buoy 10 angler effort fluctuates with annual salmon returns but average effort has remained relatively stable when compared to years prior to 2010. However, Chinook harvest rates have been increasing in recent years.
- Collectively, it is becoming harder to maintain season length, particularly in years when URB/SRW Chinook are the limiting stock (i.e. 8.25%).
- Due to overages for SRW impact rates in recent years, staff is taking a conservative approach for planning 2019 fall Chinook fisheries. Therefore, staff does not recommend fully allocating all available SRW impacts prior to the run update.
- Preliminary modelling for recreational fisheries based on an approximate 10% SRW/URB impact buffer are presented below:

Preliminary 2019 Fall Recreational Fishery Modelling					
	BUOY 10			LCR	
	1	2	3	TP-WR	WR-BONN
Chinook/August Season	Aug 1-15 nMSF; Aug 16-31 MSF	Aug 1-15 MSF; Aug 16-24 (9d) nMSF;	Aug 1-22 nMSF	Aug 1 - Aug 25	Aug 1 -Sept 10
Bag	2 fish/1 CHF	1 Salmonid	1 Salmonid	1 Salmonid	1 Salmonid
Sept-Oct Season	Sept 1-Oct 31	Aug 25-Oct 31	Aug 23-Oct 31	Aug 26-Oct 31	Sept 11-Oct 31
Bag	2-3 fish/ 0 CHF	2-3 fish/ 0 CHF	2-3 fish/ 0 CHF	2 fish/ 0 CHF	2 fish/ 0 CHF
Additional		Area from TP line to west Puget Isl. closed to CHF retention effective Aug 25	Area from TP line to west Puget Isl. closed to CHF retention effective Aug 23		

- **All options are preliminary.** Staff will complete additional review of all scenarios.
  - All Buoy 10 options include a URB Chinook set-aside (release mortalities) for Coho-directed opportunity.
  - To help avoid the substantial SRW impact overage that occurred in the TP-Warrior Rock area in 2018 (which partially resulted from effort shift from Buoy 10 to above the Tongue Point line), staff modelled several fishery options that included Chinook retention closing in the area from Tongue Point/Rocky Point line upstream to the west end of Puget Island, when Buoy 10 closes to Chinook retention.
  - Sub-allocations of the recreational URB harvest share for Buoy 10 and the TP-Warrior Rock were revised slightly from 2018.
  - Recreational fall Chinook fisheries from Bonneville to McNary Dam will open August 1 and be managed in-season based on an 8.3% URB sub-allocation and the URB run size.
  - Staff was asked to provide a model for fisheries below Longview with a provision that guides would only fish 5 days per week. This will be included for the next meeting.
- Mainstem commercial fisheries will be limited by available SRW impacts. Available impacts for wild B-Index steelhead may also be constraining.
  - Preliminary modelling indicates the early fall fishery would be 4-5 days in duration (similar to 2017 and 2018) with an expected catch of approximately 8,500 adult Chinook.
  - Preliminary planning anticipates Coho tangle net opportunity throughout October.
  - Additional late-fall opportunity will be contingent upon in-season updates for URB/SRW Chinook and wild B-Index steelhead.

*Oregon/Washington Departments of Fish and Wildlife  
March 18, 2019*