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# Columbia River Commercial Advisor Group Meeting

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December 20, 2018

10:00a-2:00p

Rainier City Hall

106 B Street

Rainier, OR 97048

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*Prepared by: Columbia River Joint Staff*

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<i>Columbia River Adult Salmon Returns: Actual and Forecasted*</i>				
		<b>2018 Forecast</b>	<b>2018 Return</b>	<b>2019 Forecast</b>
<b>Spring Chinook</b>	<b>Total Spring Chinook</b>	<b>248,520</b>	<b>176,642</b>	<b>157,500</b>
	Willamette River	53,820	37,441	40,200
	Sandy River	5,400	4,733	5,500
	Select Areas**	12,300	9,887	8,200
	Cowlitz River	5,150	4,000†	1,300
	Kalama River	1,450	2,300†	1,400
	Lewis River	3,700	3,200†	1,600
	<b>Lower River Total</b>	<b>81,820</b>	<b>61,561</b>	<b>58,200</b>
	Wind River**	5,300	3,109	2,800
	Drano Lake/Little White Salmon River**	10,200	7,352	5,600
	Hood River**	2,500	2,026	2,300
	<i>Hood River wild**</i>	<i>120</i>	<i>--</i>	<i>--</i>
	Klickitat River**	1,990	667	1,100
	Yakima River**	7,000	3,155	3,000
	Umatilla River**	6,300	3,257	n/a
	<b>Mid-Columbia total (by subtraction)</b>	<b>39,200</b>	<b>34,641</b>	<b>40,000</b>
	Upper Columbia (total)	20,100	12,844	11,200
	<i>Upper Columbia wild</i>	<i>3,400</i>	<i>1,977</i>	<i>2,100</i>
	Snake River Spring/Summer (total)***	107,400	67,596	48,100
	<i>Snake River wild***</i>	<i>18,500</i>	<i>11,339</i>	<i>8,200</i>
	<b>Upriver Total</b>	<b>166,700</b>	<b>115,081</b>	<b>99,300</b>
<b>Summer Chinook</b>	<b>Upper Columbia</b>	<b>67,300</b>	<b>42,120</b>	<b>35,900</b>
<b>Sockeye</b>	<b>Total Sockeye</b>	<b>99,000</b>	<b>210,915</b>	<b>94,400</b>
	Wenatchee	25,700	--	18,300
	Okanogan	72,600	--	74,500
	Yakima	50	--	1,300
	Deschutes	50	--	100
	Snake River	600	297	200
<p>* Components may not sum to totals shown since individual forecasts are not available for all upriver spring Chinook tributaries. Wild components are included in the stock total.</p> <p>** Return to tributary mouth.</p> <p>*** 2018 return is based on standard TAC run reconstruction methodology.</p> <p>† 2018 returns to the Cowlitz, Kalama, and Lewis rivers are to the tributary mouth and are not directly comparable to the forecasts. These values will be updated when estimates for return to the Columbia River mouth are available.</p>				

12/14/2018

## 2018 Adult Returns and 2019 Expectations Columbia River Revised Draft – December 12, 2018

	2018 Results	2019 Expectations
Willamette Spring Chinook	53,820 predicted adult return to CR (20% wild) 37,441 actual adult return (70% of forecast; 20% wild) 2,219 jack return (recent 5-year average 2,484) 37,943 return to Willamette R (35,731 adult) 24,543 adult/1,999 jack count at falls 2,657 adult return to Clackamas	40,200 CR adult return 2,290 jacks 32,150 hatchery adults 10,980 harvestable 20% wild adults ~2,800 Clackamas
Sandy River	5,400 predicted adult CR return vs. 4,733 actual to CR	5,500 CR return
Cowlitz River	5,150 predicted adult CR return vs. 3,974 actual to trib	1,300 CR return
Kalama River	1,450 predicted adult CR return vs. 2,294 actual to trib	1,400 CR return
Lewis River	3,700 predicted adult CR return vs. 3,214 actual to trib	1,600 CR return
Wind River	5,300 predicted adult CR return vs. 3,109 actual to trib	NYA
Drano (LWS)	10,200 predicted adult CR return vs. 7,352 actual to trib	NYA
Klickitat	1,990 predicted adults CR return vs. 667 actual to trib	NYA
Upriver Spring Chinook	166,700 predicted adult return 115,081 actual return (69% of forecast; 115.8K in 2017) Late return; 2 <sup>nd</sup> latest 50% date since at least 1980 7,563 BON jacks (lowest since 2006; 23% of 10-yr ave)	99,300 predicted 50% of recent 10-year ave return
Upper Columbia Summer Chinook	67,300 predicted adult return 42,120 actual return (63% of forecast) 3,242 BON jacks (lowest since 1999; 22% of 10-yr ave) Adult mark rate 76% @ BON	35,900 predicted 29,000 escapement goal (at CR mouth)
Sockeye	99,000 predicted return 210,915 actual return (64% of 10-yr ave; 297 SR)	94,400 predicted 200 SR stock
Upriver Summer Steelhead	190,350 predicted return at BON 100,483 at BON (53% of forecast; 33% of 10-yr (308K))	TBD
Bright Fall Chinook	260,180 predicted adult return Preliminary return ~70% of forecast 2018 jack count at BON (27.4K) improved from 2017	Return may be similar to 2018 actual
Tule Fall Chinook	115,330 predicted adult return Prelim. return ~74% of forecast; jacks similar to 2017	Less than recent 10-year average
Coho	213,600 predicted adult return Prelim. return approaching 50% of forecast	Jack return 50% higher than 10-yr ave
Shad	6.3 million run vs. 10-yr average of 2.1 million	Strong run expected
Smelt	Poor return (0.37 M lbs based on spawning stock biomass (SSB)); 23% of 2017; 6% of 2011-17 ave	Trending downward (<2018)
White Sturgeon	Abundance down across all age classes (juvenile, sub-adult, adult) vs. 2017; YOY recruitment mixed (LCR fourth lowest; LWR slightly more than double previous high)	TBD

## Recreational Fisheries

	2018 Results	2019 Expectations
<b>Oregon Tributary Spring Chinook</b>		
Lower Willamette River	Open 7 d/week under permanent regs 58,852 angler trips (3/5-6/30) 6,069 adults kept (1,256 rel; 83% mark rate)	Permanent regulations likely
Clackamas River	1,884 angler trips <River Mill Dam (4/30-6/30) 7 adults kept (2 rel)	Permanent regulations likely
Sandy River	300-400 adults kept	Permanent regulations likely
<b>Washington Tributary Spring Chinook</b>		
Cowlitz River	7 d/wk 1/1-7/2; 1 fish bag <3/17; 2 fish after 851 adults kept	Season TBD; Forecast = esc. goal
Kalama River	7 d/wk 1/1-7/31; 2 fish bag 1,000 adults kept	Season TBD
Lewis River	7 d/wk 1/1-4/30 and 5/12-6/17 bank-only >Johnson Cr. 1 fish bag; 553 adults kept	Season TBD
<b>Columbia River Fisheries</b>		
Spring Season LCR	Spring Chinook open: B10-I-5 Bridge; Jan-Feb; 7 d/wk; 2 Chinook bag B10-BON: 3/1-4/7, 4/14, and 5/25-6/15 Bank only Beacon R to BON (thru June 6) 2 fish/1 hatchery Chinook bag (2/2 during 6/7-15) TP/RP-BON effective 5/25 89,882 angler trips 7,509 adult Chinook kept (1,530 rel) 1,476 steelhead kept (394 rel); 90 Sockeye released	Season TBD
Spring Season BON to McN	Spring Chinook open: 3/16-5/7 and 5/25-6/15 2 fish/1 hatchery Chinook bag (2/2 during 6/7-15) 3,962 angler trips; 601 adult Chinook kept (98 rel)	Season TBD
Spring Season McN-OR/WA	Spring Chinook open: 3/16-5/7 and 5/25-6/15 2 fish/1 hatchery Chinook bag (2/2 during 6/7-15) 12 adult Chinook kept (2 rel)	Season TBD
Spring Season Snake River	Spring Chinook open: Three sections; 2d/wk; 4/20-6/11 28,205 angler hours; 742 adult Chinook kept (308 rel)	Season TBD
Summer Season LCR	Astoria Bridge to BON open 6/15-7/31 Hatchery Chinook open 6/22-30 Sockeye open 7/1-31 2 fish/ 2 hatchery Chinook bag 27,475 angler trips 1,027 adult Chinook kept (record low kept; 750 rel) 73 Sockeye kept (122 rel) 3,290 steelhead kept (1,922 rel)	Season TBD at NOF

Summer Season	BON to McN open 6/15-7/31 Hatchery Chinook open 6/22-7/6; Sockeye 7/1-31 1,228 trips; 12 Chinook adults kept (0 rel); 0 Sockeye kept and 9 released Hwy 395 to PRD: Chinook 6/16-7/16 (Sockeye 7/1-8/6) 2,642 trips 108 Chinook adults (92 H+W rel) & 1,171 Sockeye kept Upstream of PRD (includes trips): 7/1-10/15 20,217 trips 3,244 (2,849 H+395 W) adults kept (938 rel)	Season TBD at NOF
Fall Season Buoy 10	Open 8/1-9/12 Fall Chinook open 8/1-24 (1 fish bag) Coho open 8/1-9/12 (2 fish bag 8/25-9/12) Steelhead retention closed 8/27; salmonid angling 9/13 67,300 angler trips (lowest since 2013) 11,608 Chinook kept (lowest since 2011; 4,700 rel) 6,734 Coho kept (6,242 rel) SRW/LRH impacts exceeded expectations	Season TBD at NOF
Fall Season LCR Sport TP/RP - BON	Tongue Pt.- Warrior R: Chinook open 8/1-9/2 (1 fish bag); 2 fish bag 9/3-12 Warrior R. to BON: 8/1-9/12; 1 fish bag Steelhead retention closed 8/27; salmonid angling 9/13 69,629 angler trips (lowest since 1998) 9,802 adult Chinook kept (lowest since 2007; 877 rel) 650 Coho kept (417 rel) 1,104 steelhead kept (861 rel) SRW/LRH impacts exceeded expectations	Season TBD at NOF
Fall Season BON - McNary	Open 8/1 – 9/12 2 fish/1 Chinook bag (no more than 1 STH thru 8/26) Steelhead retention closed 8/27; salmonid angling 9/13 5,752 angler trips; 958 Chinook kept (97 rel)	Season TBD at NOF
Fall Season McNary-Hwy 395	Fall Chinook open 8/1-9/12 2 fish/1 Chinook bag (no more than 1 STH thru 8/26) Steelhead retention closed 8/27; salmonid angling 9/13 <100 trips; 0 catch	Season TBD at NOF
Fall Season Hanford Reach	Fall Chinook open 8/16-10/15 (early closure lower Reach) 6 fish/2 adult Chinook thru 9/14; 6/1 thereafter 24,011 angler trips ~8,672 adults 1,074 jack Chinook kept + 13 Coho kept Steelhead open 10/1-11/9; 1 ADRV daily limit 850 angler trips; 46 STH kept, 88 rel (37 H and 51 W)	TBD
Sturgeon LCR B10-BON	Below Wauna: 2,960 fish guideline; 44-50" FL; 2 PM closure 11 retention days (5/14-6/9) 18,294 angler trips; 2,412 kept (~8,320 rel) Above Wauna: 1,230 fish guideline; 44-50" FL 2 retention days (Saturdays 9/15 and 9/22) 11,031 angler trips; 1,049 kept (~6,150 rel)	2019 season and guidelines TBD

Sturgeon BON-McNary	BO Pool: 1/1-2/3, 6/15; 448 kept (138% of guideline) TD Pool: 1/1-1/19; 6/15; 180 kept (133% of guideline) JD Pool: 1/1-2/11; 66 kept (63% of guideline)	Reopen 1/1/19 Guidelines TBD
Shad	16,720 trips; 250,000 kept in LCR (record kept) 7,565 trips; 30,452 kept in LWR (through 6/17)	Large population No changes to fishery
Smelt	No retention seasons	TBD

## Commercial Fisheries

	2018 Results	2019 Expectations
<b>Columbia River Fisheries</b>		
Winter/Spring	No fishery	TBD
Summer	No fishery	TBD
August (Early Fall)	Aug 21 – 30, 4 periods; 7-9 hrs each Zones 4-5; 9" min mesh 58-84 deliveries per period 8,320 CHF; 380 Coho; 413 WSTG	TBD
Late Fall	No fishery	TBD
Seine	No fishery	TBD
Shad	2S fishery open 5/20-6/20 (perm regs) 2,112 shad landed	Area 2S fishery; experimental gear permits possible
Smelt	Mainstem only; Feb 1 – 26, 2d/wk, Z 1-3 110 pounds landed	TBD
<b>Select Area Fisheries</b>		
Winter/Spring	Similar to 10-year average Winter – 1,089 Chinook Spring – 7,655 Chinook (176 WSTG)	8,180 Select Area-origin predicted vs ~9,900 actual in 2018 Season TBD (structure expected to be similar to 2018)
Summer	Similar to 10-year average 3 <sup>rd</sup> year for summer seasons in TP/SC/BS/KS 2,237 Chinook (120 WSTG)	Season TBD (structure expected to be similar to 2018)
Fall	Below average season 6,699 Chinook (37% of 5-year ave) 12,169 Coho (20% of 5-year ave) 117 WSTG	Season TBD (structure expected to be similar to 2018)

## 2019 Columbia River Process Schedule (Preliminary Draft – Dates are Tentative)

Dec 11 1-4p	NSIA Annual Meeting • 2018 results and 2019 expectations	ODFW Clackamas, OR
Dec 15	Washington Fish and Wildlife Commission • CR Policy update C-3602 • Columbia River Sturgeon Management Policy C-3001	WDFW Olympia, WA
Dec 20	Columbia River Commercial Advisor Group Meeting • Requested topics	City Hall Rainier, OR
Jan 8 7-8p	Select Area Fisheries Public Meeting • 2018 results; 2019 season structure discussion	Holiday Inn Express Astoria, OR
Jan 11-12	Washington Fish and Wildlife Commission • Columbia River Sturgeon Management Policy C-3001	WDFW Olympia, WA
Jan 15 10a-12p	Columbia River Commercial Advisor Group Meeting • Sturgeon, smelt, forecasts, etc.	City Hall Rainier, OR
Jan 16 4p-6p	Columbia River Recreational Advisor Group Meeting • Sturgeon and smelt	WDFW Ridgefield, WA
Jan 18	Oregon Fish and Wildlife Commission • Permanent commercial regulations - housekeeping	ODFW HQ Salem, OR
Jan 29 10a	CR Compact/Joint State Hearing • SAFE Commercial • BO sport stg • Treaty	Teleconference
Feb 8	Oregon Fish and Wildlife Commission • Lower Columbia River White Sturgeon - Briefing	Portland, OR
Feb 8-9	Washington Fish and Wildlife Commission • Sturgeon stock status update	WDFW Olympia, WA
Feb 13 4-6 p	Columbia River Recreational Advisor Group Meeting • Spring/Summer Chinook	ODFW Clackamas, OR
Feb 20 10a	CR Compact/Joint State Hearing • Recreational spring Chinook	TBD (Oregon location)
Mar 15 (tentative)	Oregon Fish and Wildlife Commission • 2018 Columbia River Fisheries Update	ODFW HQ Salem, OR
See Ocean Calendar for NoF planning process		

## 2019 Ocean Fishery Process Schedule (Preliminary Draft – Dates are Tentative)

Feb 28	Ocean Salmon Industry Group <ul style="list-style-type: none"> <li>• 2019 forecasts</li> <li>• Initial discussions of 2019 season options</li> </ul>	Shilo Inn Newport, OR
Feb 27	WDFW Public Meeting <ul style="list-style-type: none"> <li>• 2019 forecasts and fishing opportunities</li> </ul>	Lacey Community Center 6729 Pacific Ave SE Olympia, WA
Mar 5-12	Pacific Fishery Management Council (PFMC) <ul style="list-style-type: none"> <li>• Adopt initial 2019 ocean salmon options for public review</li> </ul>	Hilton 301 W. Sixth St. Vancouver, WA
Mar 18	2019 Columbia R North of Falcon #1	WDFW Ridgefield, WA
Mar 19	North of Falcon #1 (Public Meetings) <ul style="list-style-type: none"> <li>• Salmon season negotiations for Columbia River, Puget Sound, Willapa Bay, Grays Harbor, and ocean areas north of Cape Falcon, OR</li> </ul>	Olympia, WA
Mar 25	PFMC Public Options Hearings <ul style="list-style-type: none"> <li>• Public input on 2019 season options</li> </ul>	Westport, WA Coos Bay, OR
March 25-29 (TBD)	East of McNary – North of Falcon	Tri-Cities, Wenatchee, Clarkston (TBD)
Apr 2	2019 Columbia R North of Falcon #2	WDFW Ridgefield, WA
Apr 3	North of Falcon #2 (Public Meetings) <ul style="list-style-type: none"> <li>• Puget Sound</li> </ul>	Lynwood Embassy Suites 20610 44 <sup>th</sup> Ave W Lynwood, WA
Apr 9-16	Pacific Fishery Management Council (PFMC) <ul style="list-style-type: none"> <li>• Adopt 2019 ocean salmon fishery regulations</li> </ul>	Double Tree One Doubletree Dr. Rohnert Park, CA
Apr 19	Oregon Fish and Wildlife Commission <ul style="list-style-type: none"> <li>• Adopt state water ocean salmon fishery regulations</li> </ul>	District 1



## 2018 Preliminary post-season upriver spring Chinook allocations

Spring Season	upriver-origin spring Chinook (adults)					
	total spring Chinook		mortalities		ESA impact rate	
	kept	released	actual	allowed	actual	allowed
LCR recreational	7,509	1,530	5,868		0.61%	
BON-S/L recreational	613	100	623		0.06%	
SR (WA) recreational	742	308	773		0.27%	
<i>recreational subtotal</i>	<i>8,864</i>	<i>1,938</i>	<i>7,264</i>	<i>9,160</i>	<i>0.94%</i>	<i>1.36%</i>
MS commercial	0	0	0		0.00%	
Select Area commercial	8,706	0	311		0.27%	
<i>commercial subtotal</i>	<i>8,706</i>	<i>0</i>	<i>311</i>	<i>391</i>	<i>0.27%</i>	<i>0.34%</i>
<b>grand total</b>	<b>17,570</b>	<b>1,938</b>	<b>7,575</b>	<b>9,551</b>	<b>1.21%</b>	<b>1.70%</b>

## 2018 Pound Net

### 2018 Pound Net Trap Test Fishery - Aug - Oct (Preliminary)

		Aug 25-Sep 7	Sep 9-16	Total Aug-Sep	Oct	Total
<b>EFFORT AND CATCH RATES</b>		Shorelead up	Shorelead down			
# of days operated		14	6	20	12	32
# of lifts		128	52	180	23	203
#chin/lift		9.5	6.6	8.6	0.1	7.7
#coho/lift		4.1	7.5	5.1	2.8	4.8
#sthdlift		1.3	2.7	1.7	0.8	1.6
#chin/day		86.4	57.3	77.7	0.2	48.6
#coho/day		37.9	65.0	46.0	5.3	30.8
#sthdlift/day		11.8	23.7	15.4	1.5	10.2
<b>HANDLE</b>						
Chin Kept	Adult	505	95	600	0	600
	Jack	35	13	48	0	48
	Total	540	108	648	0	648
Chin Released	Adult Total	670	236	906	2	908
	Jack Total	116	103	219	2	221
Total Chinook Adult Handle		1175	331	1506	2	1508
Total Chinook Jack Handle		151	116	267	2	269
Coho Kept	Adult	230	220	450	47	497
	Jack	7	1	8	4	12
	Total	237	221	458	51	509
Coho Released	Adult Total	293	169	462	13	475
	Jack Total	274	250	524	85	609
Total Coho Adult Handle		523	389	912	60	972
Total Coho Jack Handle		281	251	532	89	621

## 2018 Pound Net (continued)

RELEASED DETAIL		Aug 25-Sep 7 Shorelead up	Sep 9-16 Shorelead down	Total Aug-Sep	Oct	Total
<b>Chinook</b>						
Ad-clip Chin rel	Adult	1	2	3	0	3
	Jack	29	16	45	0	45
No Mark Chin rel	Adult	667	234	901	2	903
	Jack	87	87	174	2	176
Unknown Mark Chin rel	Adult	2	0	2	0	2
	Jack	0	0	0	0	0
Total Adult		670	236	906	2	908
Total Jack		116	103	219	2	221
<b>Coho</b>						
Ad-clip Coho rel	Adult	2	3	5	5	10
	Jack	161	164	325	81	406
No Mark Coho rel	Adult	288	165	453	8	461
	Jack	113	82	195	4	199
Unknown Mark Coho rel	Adult	3	1	4	0	4
	Jack	0	4	4	0	4
Total Adult		293	169	462	13	475
Total Jack		274	250	524	85	609
<b>Steelhead</b>						
A-Run Sthd rel	ad-clip	65	50	115	10	125
	NM	26	12	38	4	42
Total A		91	62	153	14	167
B-Run Sthd rel	ad-clip	52	58	110	3	113
	NM	10	12	22	1	23
Total B		62	70	132	4	136
Unknown Run Sthd rel	ad-clip	9	9	18	0	18
	NM	2	0	2	0	2
	Unknown	1	1	2	0	2
		12	10	22	0	22
Total Sthd (A+B+Unknown)		165	142	307	18	325
<b>White Sturgeon</b>						
Sublegal				1	0	1
Legal				0	0	0
Overlegal				3	0	3
<b>Chum</b>						
Other species				0	2	2
Northern Pikeminnow						
Largescale sucker						
Rainbow Trout						
Pumpkinseed						
Bass						

## 2018 Pound Net (continued)

EX-VESSEL VALUE		
	Price	lbs
Chin	\$3.50/lb	5,078
Chin	\$0.60/lb	2,242
Coho	\$1.50/lb	3,400
Coho	\$1.85/lb	369

### Summary of 2018 Z4/5 gillnet and experimental pound net results (Preliminary)

Year	Fishery	Days Fished	Fishers <sup>1</sup>	Harvest <sup>2</sup>		Total
				Chinook	Coho	Ex-Vessel Value
2018	Zone 4-5 Gillnet	4	64	8,320	380	\$378,454
	Cathlamet Pound Net	32	3	645	511	\$24,901

<sup>1</sup> Average number of fishers participating in Zone 4-5 fishery based on average deliveries per fishing period, adjusted for multiple deliveries during a period by individual vessels. Assumes one fisher per gillnet vessel. Three fishers are needed to operate the pound net (Tuohy 2018).

<sup>2</sup> Includes adults and jacks.

## Summary of 2017 Purse Seine Mortality Study

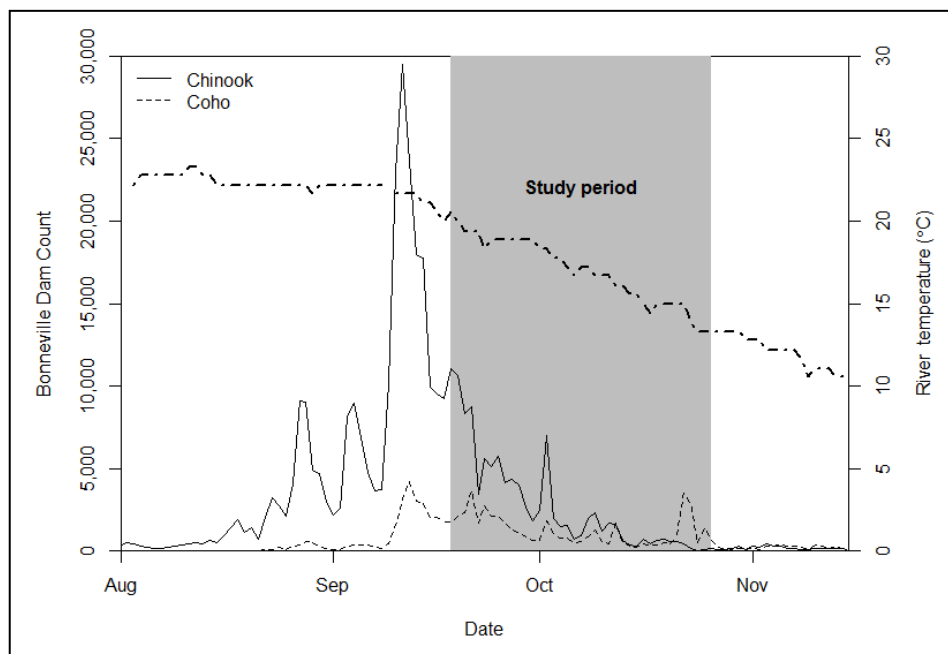
(12/19/2018)

### STUDY DESIGN

- Put paired groups of control fish (from Bonneville Dam AFF) with fish caught in purse seines in net pens and monitored survival for 48 h.
- Fished in Zone 5
  - Daily sample sizes of fish held in net pens. Fish in control group were censored from 9/19 through 9/29 due to severe DO depletion during transport.

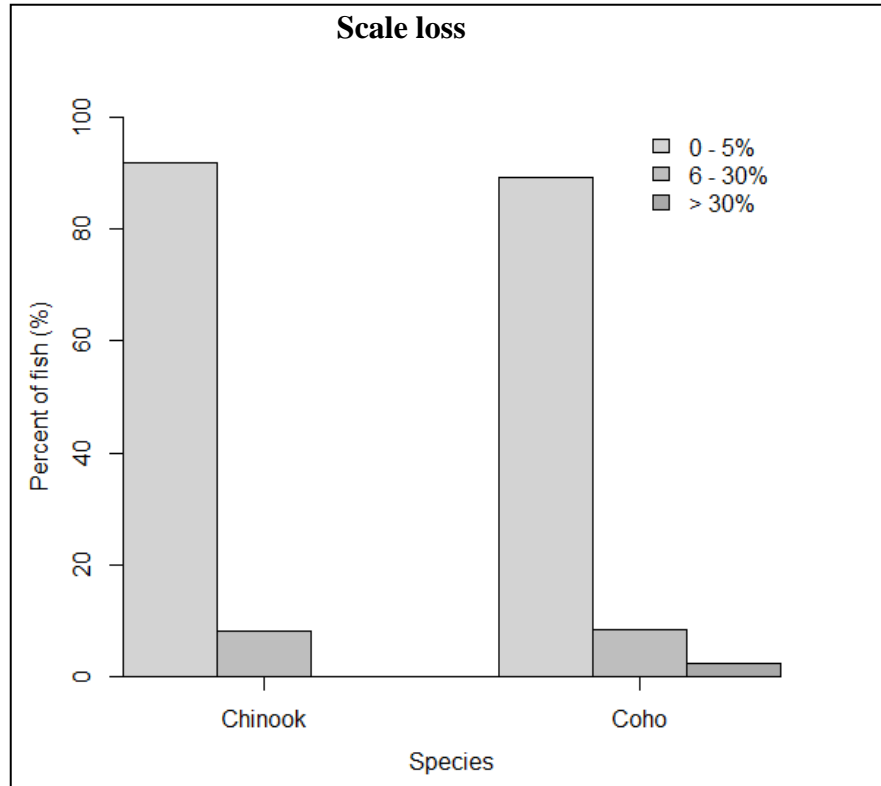
Date	Species			
	Chinook		Coho	
	Control	Treatment	Control	Treatment
19-Sep		6		3
20-Sep		13		2
25-Sep		8		2
26-Sep		8		3
27-Sep		3		1
29-Sep		8		7
2-Oct	6	4	8	11
4-Oct	6	4	9	6
5-Oct	13	13	2	2
9-Oct	12	14	7	7
10-Oct	10	17	2	3
11-Oct	2	7	5	5
12-Oct	8	10	5	4
16-Oct	7	5	4	2
17-Oct	12	13	2	2
18-Oct	9	9	2	1
19-Oct	11	11	4	4
23-Oct	6	11	4	4
25-Oct	4	11	11	3
<b>Total</b>	<b>106</b>	<b>175</b>	<b>65</b>	<b>72</b>

- Started fishing after peak Chinook passage at BON
- Temps had cooled below 70 °F (21°C)



## RESULTS

- CPUE was low (8.0 Chinook per set, 2.6 Coho per set)
- 100% of control fish survived the 48 h holding period
  - Handling by itself didn't appear to contribute to mortality
- Injury rates were low
  - Few fish observed with scale loss at capture (<10% of fish), few fish with impaired reflex action.



- Under these conditions, short-term survival was high for both Chinook and Coho (~ 98 %)

Species	Life stage	N	Survival (%)	95% CL
Chinook	Adult	148	97.9	94.0 – 99.3
Chinook	Jack	27	97.6	91.6 – 99.4
Coho	Adult	70	98.2	84.0 – 99.9

- Caveats to consider:
  - Survival could be lower in estuary fisheries, if fish are caught while transitioning from salt to freshwater.
  - Fisheries occurring at higher temperatures could also have lower post-release survival.
  - Higher CPUE and sort times could result in higher rates of injury. Increased injury rates would likely mean lower post-release survival.

## 2018 Fisheries Summary (Preliminary)

2018 Lower Columbia River Recreational Fisheries Summary																
Time Period	Area	Species Allowed	Days for Chinook	Salmonid Anglers	Adult Chin. Kept	Adult Chin. Rel'd	Jack Chin. Kept	Jack Chin. Rel.	Sthd Kept	Sthd Rel'd	Sockeye Kept	Sockeye Rel'd	Adult Coho Kept	Adult Coho Rel'd	Jack Coho Kept	Jack Coho Rel.
Feb	Buoy 10 to I-5	ChS, StW		3,293	18	0	0	0	0	36	Closed	0	0	0	0	0
March	LCR	ChS, StW	31	38,633	1,871	278	3	0	67	85	Closed	0	0	0	0	0
April 1-7 & 14	LCR	ChS, StW	8	26,486	4,119	581	18	0	42	20	Closed	0	Closed	Closed	Closed	Closed
May 16-24	TP-Bonn.	StS	0	1,524	0	105	0	8	143	21	Closed	0	Closed	Closed	Closed	Closed
May 25-31	TP-Bonn.	ChS, StS	7	7,517	468	250	12	25	442	62	Closed	0	Closed	Closed	Closed	Closed
June 1-15	TP-Bonn.	ChS, StS	15	12,429	1,033	316	21	63	782	170	Closed	90	Closed	Closed	Closed	Closed
<b>ChS Totals</b>	<b>(February 1-June 15) 1/</b>		<b>61</b>	<b>89,882</b>	<b>7,509</b>	<b>1,530</b>	<b>54</b>	<b>96</b>	<b>1,476</b>	<b>394</b>	<b>0</b>	<b>90</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
June 16-21	Astoria Br-Bo	StS	0	3,281	0	52	11	0	569	99	0	60	Closed	Closed	Closed	Closed
June 22-30	Astoria Br-Bo	StS, ChR	9	9,636	1,021	356	28	18	451	291	0	57	Closed	Closed	Closed	Closed
July 1-31	Astoria Br-Bo	StS, Sok	0	14,558	6	342	50	23	2,270	1,532	73	5	Closed	Closed	Closed	Closed
<b>ChR Totals</b>	<b>(June 16-July 31) 2/</b>		<b>9</b>	<b>27,475</b>	<b>1,027</b>	<b>750</b>	<b>89</b>	<b>41</b>	<b>3,290</b>	<b>1,922</b>	<b>73</b>	<b>122</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Spring/Summer Totals</b>				<b>117,357</b>	<b>8,536</b>	<b>2,280</b>	<b>143</b>	<b>137</b>	<b>4,766</b>	<b>2,316</b>	<b>73</b>	<b>212</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Aug	TP-BO	ChF, Co, StS	31	41,506	4,119	232	236	185	1,097	788	Closed	0	223	149	0	16
Sep 1-12	TP-BO	ChF, Co	12	28,123	5,683	645	461	173	7	73	Closed	0	427	268	32	19
Oct	TP-BO	Closed	0	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
<b>ChF Totals</b>	<b>(August 1-September 12) 3/</b>		<b>43</b>	<b>69,629</b>	<b>9,802</b>	<b>877</b>	<b>697</b>	<b>358</b>	<b>1,104</b>	<b>861</b>	<b>0</b>	<b>0</b>	<b>650</b>	<b>417</b>	<b>32</b>	<b>35</b>
<b>LCR Spring Summer and Fall</b>			<b>113</b>	<b>186,986</b>	<b>18,338</b>	<b>3,157</b>	<b>840</b>	<b>495</b>	<b>5,870</b>	<b>3,177</b>	<b>73</b>	<b>212</b>	<b>650</b>	<b>417</b>	<b>32</b>	<b>35</b>
OR Buoy 10	B10-TP	ChF, Co, StS	24	67,300	11,608	4,700	0	0	50	43	0	0	6,734	6,242	0	0
WN Buoy 10	B10-TP	ChF, Co, StS	24													
<b>Buoy 10 Total</b>	<b>(August 1- September 12) 4/</b>		<b>24</b>	<b>67,300</b>	<b>11,608</b>	<b>4,700</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>43</b>	<b>0</b>	<b>0</b>	<b>6,734</b>	<b>6,242</b>	<b>0</b>	<b>0</b>
<b>B10 and Mainstem Fall Totals</b>				<b>136,929</b>	<b>21,410</b>	<b>5,577</b>	<b>697</b>	<b>358</b>	<b>1,154</b>	<b>904</b>	<b>0</b>	<b>0</b>	<b>7,384</b>	<b>6,659</b>	<b>32</b>	<b>35</b>
<b>LCR and B10 Grand Totals</b>				<b>254,286</b>	<b>29,946</b>	<b>7,857</b>	<b>840</b>	<b>495</b>	<b>5,920</b>	<b>3,220</b>	<b>73</b>	<b>212</b>	<b>7,384</b>	<b>6,659</b>	<b>32</b>	<b>35</b>

Table 22. Lower Columbia River Commercial Landings, 2018.

<i>Winter/Spring/Summer</i>										
<i>(Prelim/FINAL – OR/WA Fish Tickets – November 19, 2018)</i>										
Season	CHINOOK		Z 1–5 Spring Chinook		SOCKEYE		SHAD		WHITE STURGEON <sup>1</sup>	
<i>Mainstem</i>	Numbers	Pounds	Adults	Jacks	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds
Winter Sturgeon <i>(no season during 2018)</i>	0	0	—	—	0	0	0	0	No Retention	--
Spring <i>(no season during 2018)</i>	0	0	0	0	0	0	0	0	No Retention	--
Summer <i>(no season during 2018)</i>	0	0	—	—	0	0	0	0	No Retention	--
Shad (Area 2S)	—	—	—	—	—	—	2,112	5,701	No Retention	--
<b>Mainstem Totals</b>	<b>0</b>	<b>0</b>	<b>—</b>	<b>—</b>	<b>0</b>	<b>0</b>	<b>2,112</b>	<b>5,701</b>	<b>0</b>	<b>0</b>
<i>Select Areas</i>										
Youngs Bay Winter	737	9,287			0	0	0	0	No Retention	--
Youngs Bay Spring	4,796	55,993			0	0	0	0	52	1,568
Youngs Bay Summer	1,400	16,945			6	17	0	0	14	418
Tongue Point Winter	177	2,299			0	0	0	0	No Retention	--
Tongue Point Spring	1,327	16,931			0	0	0	0	81	2,297
Tongue Point Summer	380	5,060			0	0	0	0	94	3,106
Blind & Knappa Sloughs Winter	175	2,290			0	0	0	0	No Retention	--
Blind & Knappa Sloughs Spring	1,532	19,420			0	0	0	0	43	1,269
Blind & Knappa Sloughs Summer	457	5,898			0	0	0	0	12	376
Deep River Winter <i>(no season during 2018)</i>	0	0			0	0	0	0	No Retention	--
Deep River Spring <i>(no season during 2018)</i>	0	0			0	0	0	0	No Retention	--
<b>Select Area Totals</b>	<b>10,981</b>	<b>134,123</b>			<b>6</b>	<b>17</b>	<b>0</b>	<b>0</b>	<b>296</b>	<b>9,034</b>
<b>Lower Columbia River Commercial</b>	<b>Chinook</b>				<b>Sockeye</b>		<b>Shad</b>		<b>White Sturgeon<sup>1</sup></b>	
<b>GRAND TOTALS</b>	<b>10,981</b>	<b>134,123</b>			<b>6</b>	<b>17</b>	<b>2,112</b>	<b>5,701</b>	<b>296</b>	<b>9,034</b>
<b>Winter/Spring/Summer 2018</b>										
<i>Fall</i>										
<i>(Prelim/FINAL – OR/WA Fish Tickets – November 19, 2018)</i>										
Season	CHINOOK		COHO		PINK		CHUM		WHITE STURGEON <sup>1</sup>	
<i>Mainstem</i>	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds
August (Zone 4–5; 9–9 3/4 inch gillnet)	8,320	128,317	380	2,811	0	0	No Retention		413	13,927
August Subtotals	8,320	128,317	380	2,811	0	0	No Retention		413	13,927
Late-Fall <i>(no season during 2018)</i>	0	0	0	0	0	0	No Retention		0	0
Late-Fall Subtotals	0	0	0	0	0	0	No Retention		0	0
<b>Fall Mainstem Totals</b>	<b>8,320</b>	<b>128,317</b>	<b>380</b>	<b>2,811</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>413</b>	<b>13,927</b>
<i>Select Areas</i>										
Youngs Bay	2,945	31,926	4,229	33,769	0	0	No Retention		52	1,634
Tongue Point	1,035	11,970	3,682	24,679	1	4	No Retention		32	932
Blind Slough & Knappa Slough	1,401	17,609	1,477	10,422	0	0	No Retention		23	741
Deep River	1,318	13,003	2,781	20,343	1	2	No Retention		10	281
<b>Fall Select Area Totals</b>	<b>6,699</b>	<b>74,508</b>	<b>12,169</b>	<b>89,213</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>117</b>	<b>3,588</b>
<b>Lower Columbia River Commercial</b>	<b>Chinook</b>		<b>Coho</b>		<b>Pink</b>		<b>Chum</b>		<b>White Sturgeon<sup>1</sup></b>	
<b>GRAND TOTALS</b>	<b>15,019</b>	<b>202,825</b>	<b>12,549</b>	<b>92,024</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>530</b>	<b>17,515</b>
<b>Fall 2018</b>										
<b>PRELIMINARY GRAND TOTALS 2018</b>										
	<b>CHINOOK</b>		<b>COHO</b>		<b>PINK</b>		<b>CHUM</b>		<b>WHITE STURGEON<sup>1</sup></b>	
	<b>Numbers</b>	<b>Pounds</b>	<b>Numbers</b>	<b>Pounds</b>	<b>Numbers</b>	<b>Pounds</b>	<b>Numbers</b>	<b>Pounds</b>	<b>Numbers</b>	<b>Pounds</b>
	<b>26,000</b>	<b>336,948</b>	<b>12,549</b>	<b>92,024</b>	<b>2</b>	<b>6</b>	<b>No Retention</b>		<b>826</b>	<b>26,549</b>
<b>for Lower Columbia R. Commercial Fisheries</b>	<b>SOCKEYE</b>		<b>SHAD</b>		<b>SMELT (Mainstem)</b>		<b>GREEN STURGEON</b>			
	<b>Numbers</b>	<b>Pounds</b>	<b>Numbers</b>	<b>Pounds</b>	<b>Pounds</b>		<b>Numbers</b>	<b>Pounds</b>		
	<b>6</b>	<b>17</b>	<b>2,112</b>	<b>5,701</b>	<b>110</b>		<b>No Retention</b>			

<sup>1</sup> The sale of White Sturgeon was allowed during August mainstem commercial seasons below Bonneville Dam; White Sturgeon were also allowed to be sold during Select Area spring, summer and fall seasons from April 19 through October 31.