

# 2023 Harvest Review & 2024 Forecast

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## CCT Fish & Wildlife

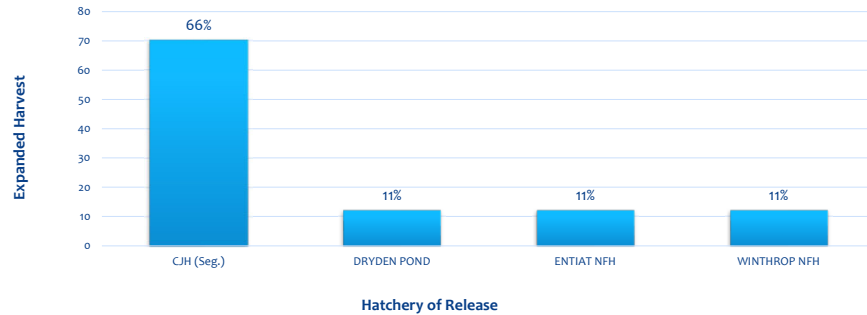
## Spring Chinook Harvest

**Table 1. 2023 CCT Harvest Data - Columbia River and Icicle Creek May 27 - June 30**

Activity	Spring Chinook														Steelhead									
	HOR Adult Broodfish	HOR Jack Broodfish	NOR Adults Released	NOR Adults Harvested/Morts	NOR Jacks Released	NOR Jacks Harvested/Morts	10J Adult Harvest	10J Adult Released	10J Jack Harvest	10J Jack Released	HOR Adults Harvested/Morts	HOR Adults Released	HOR Jacks Harvested	HOR Jacks Released	Subtotal - Chinook Adults Removed	AD Present Harvest/Morts	AD Present Released	AD Absent Harvested	AD Absent Released	Subtotal Steelhead Harvested				
CJD Tailrace Fishery (expanded, includes hook and line effort and a calculated release mortality)	0.0	0.0	17.4	0.0	7.7	0.0	0.0	37.7	0.0	16.6	98.1	29.7	27.9	0.0	98.1	0.0	0.0	0.0	0.0	0.0				
Chief Joseph Hatchery Ladder	550	18	91	0	19	0	0	197	0	24	0	107	0	284	550.0	0	12	0	30	0				
Icicle Creel	0	0	0.0	8.8	0	4.1	0	0	0	0	365.9	0	14.4	0	374.7	0	0	0	0	0				
Post Release Mortality	0	0	1.8	0.0	0.2	0.0	0	3.9	0	1.1	0	2.6	0	2.8	8.2	0	0.1	0	0.3	0				
Grand Total of NOR Adult Handling Mortality	0	0	1.8	8.8	-	-	6.0	3.9	-	-	-	-	-	-	20.4	0.0	0.1	0.0	0.3	0.0				
<b>Spring Chinook Adult Broodfish</b>	<b>Spring Chinook Harvest</b>										<b>Icicle Creek Harvest</b>				<b>Steelhead Post Release Mortality</b>									
	<b>550.0</b>										<b>106.3</b>				<b>374.7</b>					<b>0.4</b>				

May 27<sup>th</sup> – June 30<sup>th</sup>

## Spring Chinook Creel Composition



## CCT Harvest Program Goals

- \* Collect summer Chinook broodstock for the hatchery: natural-origin (NOR) & hatchery-origin (HOR)
- \* Affect pHOS and improve PNI in summer/fall Chinook spawning areas
  - \* Selectively removing HORs
  - \* Successfully releasing NORs
- \* Provide harvest data to hatchery staff for help in setting the yearly, hatchery-production target
- \* Provide harvest food for subsistence, cultural and ceremonial purposes

# Thermal Barrier

## Okanogan River at Malott, WA - 12447200

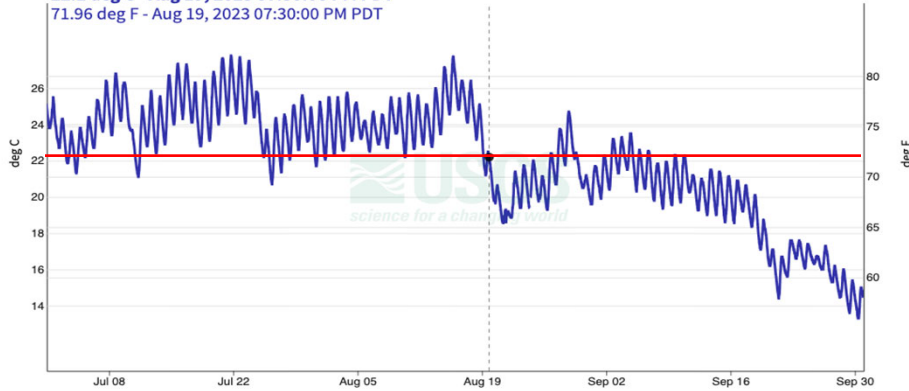
July 1, 2023 - September 30, 2023

Temperature, water, degrees Celsius

Temperature, water, degrees Fahrenheit (calculated)

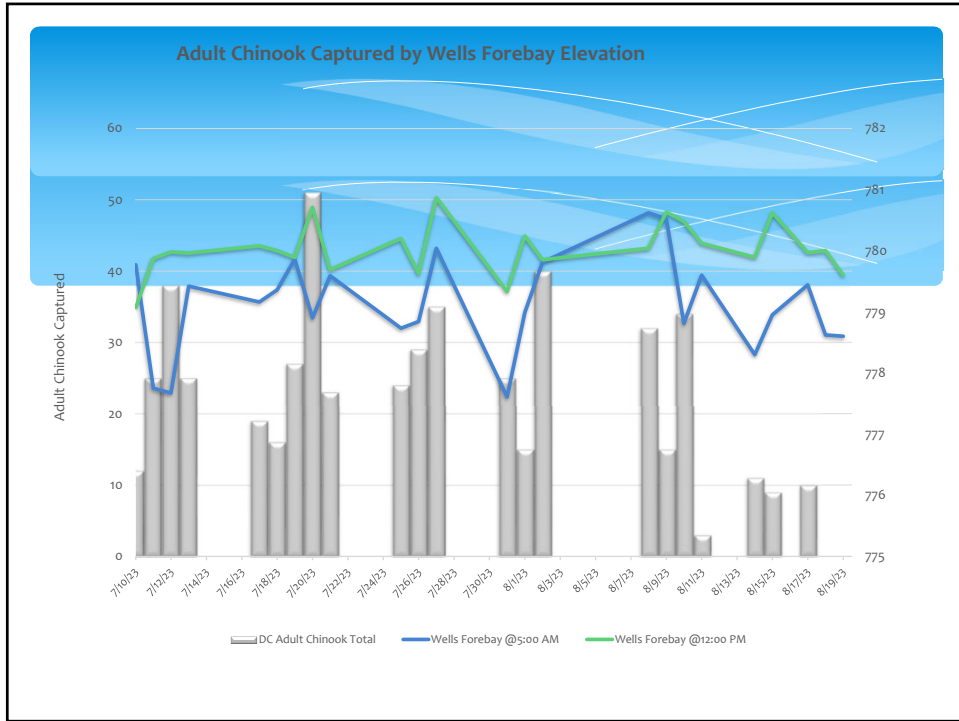
22.2 deg C - Aug 19, 2023 07:30:00 PM PDT

71.96 deg F - Aug 19, 2023 07:30:00 PM PDT



# Wells Pool Draw Down Timing





### 2023 Upper Columbia Summer Chinook Allocations

*(All data preliminary and includes kept + release mortalities)*

Runsize	Pre		Post	
	Allowed	Actual	Allowed	Actual/Allowed
Harvest allocated Fishery	85,400	5,318	54,722	
PFMC Ocean Fisheries	5,318	5,318	5,318	100%
<b>Below Priest Rapids Dam (PRD)</b>	<b>37.1%</b>	<b>19.4%</b>	<b>23.2%</b>	
Commercial below BON	1,516	348	51	15%
Recreational Below Bonneville	4,511	1,035	2,162	209%
Recreational BON to PRD	796	183	136	74%
Unallocated	758	174		
<b>Below PRD Total</b>	<b>7,581</b>	<b>1,740</b>	<b>2,349</b>	<b>135%</b>
<b>Above Priest Rapids Dam (PRD)</b>	<b>62.9%</b>	<b>80.6%</b>	<b>76.8%</b>	
Wanapum Tribal	343	91	73	80%
Colville Tribal	7,076	3,604	1,759	49%
Recreational above PRD	5,447	3,512	5,943	169%
<b>Above PRD Total</b>	<b>12,865</b>	<b>7,207</b>	<b>7,775</b>	<b>108%</b>
<b>Non-Treaty Total</b>	<b>25,765</b>	<b>14,265</b>	<b>15,442</b>	<b>108.3%</b>

Table 1. 2023 CCT Harvest Data - Columbia River and Okanogan River July 1 - September 30<sup>th</sup>

Activity	Summer/Fall Chinook												Total Adults Removed
	NOR Adult Broodfish	HOR Adult Broodfish	NOR Jack Broodfish	HOR Jack Broodfish	NOR Adults Released <sup>1/</sup>	NOR Adults Retained/Morts	NOR Jacks Released <sup>1/</sup>	HOR Adults Retained/Morts	HOR Adults Released	HOR Jacks Retained	HOR Jacks Released		
CCT F&W Purse Seine	138	316	7	34	5	1	51	0	0	52	26	454.0	
CJD Tailrace Fishery (expanded; includes snag, dip net and hook and line effort and a calculated release mortality)	—	—	—	—	31.4	76.8	0	1,507.8	316.8	72.7	18.7	1,584.6	
CCT F&W Okanogan Weir <sup>4</sup>	—	—	—	—	—	—	—	—	—	—	—	—	
Chief Joseph Hatchery Ladder Surplus	51	666	0	28	23	0	0	200	307	0	104	917.0	
Harvest sub-total (includes post release mortality)	0	0	0	0	15.8	77.8	0	1,507.8	158.4	124.7	0	1,759.8	
Sub-total Fish Released	0	0	0	0	59.4	0	51.0	0	623.8	0	148.7	0.0	
Sub-total Handling and Release Mortality	0	0	0	0	16.0	0.0	0.5	1.6	161.5	0.0	10.7	0.0	
Total Fish Removed	189	982	7	34	16.0	77.8	0.5	1,707.8	161.5	124.7	10.7	3,134.1	
Grand Total of Adult Fish Removed	CHK Broodstock				CHK Harvest Allocation				CHK Surplus				
	1,240.0				1,759.8				203.3				

Sockeye		Steelhead			
Sockeye Harvested/Morts	Sockeye Released	Wild Released <sup>2/</sup>	Hatchery Released	Wild Harvest	Hatchery Harvest
8,737	120	0	0	0	0
150	0	0	0	7.5	20.8
—	—	—	—	—	—
0	0	0	0	0	0
<b>8,887</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7.5</b>	<b>20.8</b>
<b>0</b>	<b>120</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>0</b>	<b>1.2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>8,887.0</b>	<b>1.2</b>	<b>0.0</b>	<b>0.0</b>	<b>7.5</b>	<b>20.8</b>
<b>Sockeye</b>		<b>Steelhead</b>			
<b>8,888.2</b>		<b>28.3</b>			

# CJD Creel – Summer Chinook Tailrace Harvest

\* July 1<sup>st</sup> – September 30<sup>th</sup>

\* Effort Hours

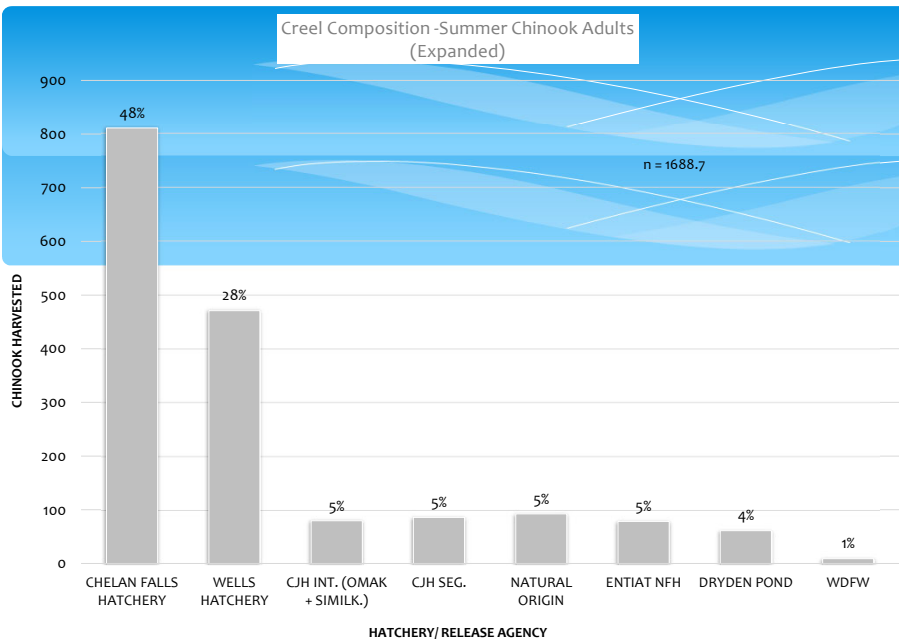
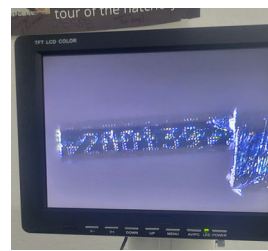
1. Snag – 6,067 hours
2. Hook and line – 530 hours
3. Dip Net – 202 hours

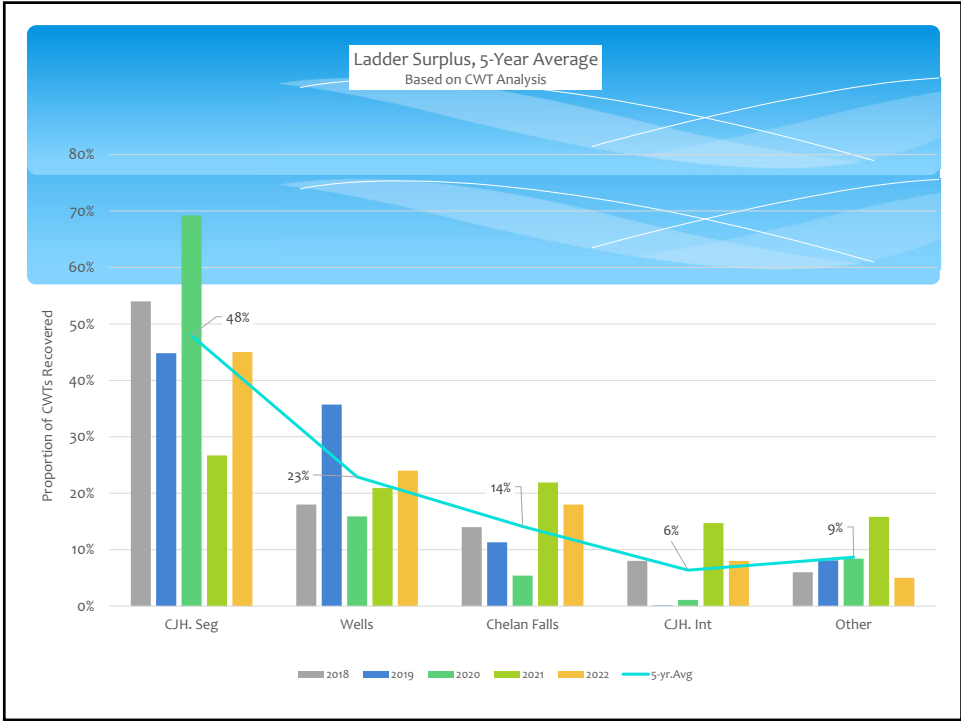
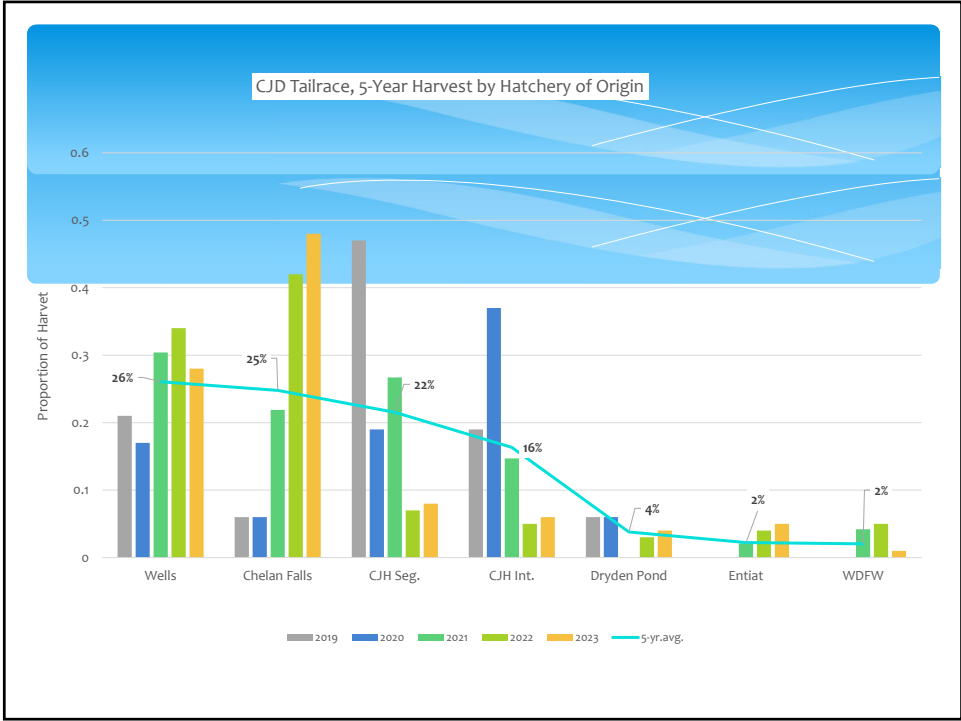
\* 1,892 Bank Observations

\* 831 Interviews conducted

Age

3	4	5	6	7
3%	19%	74%	3%	1%







## Purse Seine Effort

- \* 85 Sets
- \* CPUE (all Salmonids) : 112/set
- \* CPUE (Sockeye) : 103/set
- \* CPUE (Chinook): 8/set



# Collection Data

2023 Purse Seine fishing effort



HOR brood collected	377
NOR brood collected	178
HOR Harvested	52 (jacks)
<ul style="list-style-type: none"><li>• 59% CJH Integrated (yearlings)</li><li>• 41% CJH Segregated (yearlings)</li></ul>	
Sockeye harvested	8,737
Sockeye released	120



## 2024 Summer/Fall Chinook Forecast

- 2024 forecasts 57,500 summer/fall chinook to the upper Columbia River
- 54,722 summer/fall chinook returned to the upper Columbia River in 2023

CCT Harvest Allocation ~3,500  
(Preliminary, dependent on PFMC ocean harvest)

## 2024 Spring Chinook Forecast

- 2024 forecasts 19,400 spring chinook adults to the upper Columbia River
- 24,917 adults returned to the upper Columbia River in 2023
- ~500 – 750 (CJH Segregated and 10j) returns for each group

## Sockeye Return Forecast

Sockeye Run at Columbia River Mouth: 401,700

Of those, 288,700 are estimated to be Ok origin

CCT Allocation = Excess of Escapement



# Salmon Storage



747 Chinook into Fillets, 120- HGT

1,210 Sockeye Frozen Whole, 789- HGT

2,300 Sockeye to the Cannery, avg 2.9lbs

# Surplus



11 Surplus events at 4 different hatcheries

Distributed:

2,203 Chinook



Questions?