

2018 Puget Sound Summer/Fall Chinook Preseason Forecasts

Region	Watershed	Notes	Forecast Type	Hatchery	Supplmt	Wild	Total	Comp Chinook Management Criteria	
								RER ¹	Low Abundance Thresholds ^{2,3}
Strait	Hoko		Escape w/o fishing	398		1,071	1,469		
	Dungeness		Terminal	707		89	796		
	Elwha		Terminal	4,931		238	5,169		
	Morse Creek		Terminal	77			77		
	Region total			6,113		1,398	7,511		
North Sound	Glenwood Springs		Terminal	673			673		
	Nooksack/Samish		Terminal	24,558			24,558		
	Skagit		Terminal	303		13,340	13,643		
	Stillaguamish		Terminal run w/ fishing	1063		487	1,550		
	Snohomish		Extreme Terminal w/ harvest	6,508		3,460	9,968		
	Tulalip		Terminal Run w Harvest	7,450			7,450		
	Region total			40,555	0	17,287	57,842		
Upper South Sound	Lake Washington								
	Issaquah		Terminal	4,761			4,761		
	Cedar		Terminal			1,350	1,350		
	Sammamish		Terminal			111	111		
	Subregion total			4,761		1,461	6,222		
	Green River								
	Soos Creek Hatchery		Terminal	20,766			20,766		
	Icy Creek		Terminal	555			555		
	Mainstem/Newaukum		Terminal			2,110	2,110		
	Subregion total			21,321		2,110	23,431		
	Grovers		Terminal	3,211			3,211		
	East Kitsap (Gorst, Dogfish)		Terminal	8,977			8,977		
	Subregion total			12,188			12,188		
	Puyallup River		Terminal	11,778		672	12,450		
	Upper South Sound Total			50,048		4,243	54,291		

2018 Puget Sound Summer/Fall Chinook Preseason Forecasts (continued)

Region	Watershed	Notes	Hatchery	Supplmt	Wild	Total	Comp Chinook Management Criteria	
							RER ¹	Low Abundance Thresholds ³
Lower South Sound	Carr Inlet	Terminal	22,302			22,302		
	Deschutes	Terminal	21,529			21,529		
	Nisqually	Terminal	28,514		586	29,100		
	Chambers	Terminal	1,196			1,196		
	Lower South Sound Total		73,541		586	74,127		
	South Sound Total		123,589	0	4,829	128,418		
Hood Canal	Skokomish w/George Adams	Terminal	31,250		3,338	34,588		
	12B Naturals	Terminal			358	358		
	12C/12H/12D	Terminal	26,308		194	26,502		
	Hood Canal Total		57,558	0	3,890	61,448		
Puget Sound Total			227,815	0	27,404	255,219		
Footnotes	1. RER = Recovery Exploitation Rate (interim management ceiling during recovery phase). 2. Level of spawning abundance that triggers additional management action. 3. Threshold expressed as natural origin spawners 4. Aggregate for combined hatchery and wild spawners							

Puget Sound Spring Chinook 2018 Preseason Forecasts

Notes	Forecast Type	Hatchery	Supplmt	Wild	Total	RER	Low Abundance Thresholds	
Nooksack River								
North Fork	Terminal	2,984	1,187	179	4,350			
South Fork	Terminal	1,798		23	1,821			
Skagit River								
	Terminal	3,439		2,317	5,756			
White River								
Minter Creek	Terminal	755			755			
White River Hatchery	Terminal	2,546			2,546			
Buckley Trap	Terminal		1,706	528	2,234			
Total White River Springs					5,535			
Total					11,522	2,893	3,047	17,462
<ol style="list-style-type: none"> 1. Supplementation number is hatchery-origin acclimated fish expected to spawn in the wild. 2. Forecast of SF Nooksack stock origin chinook. 3. Forecast of returns to the hatchery rack only. 4. Includes naturally produced spring and fall chinook returns and acclimation pond production. 								

Washington Coast 2018 Chinook Preseason Forecasts

		Hatchery	Wild	Totals	Natural Escapement Goal
North Coast					
Quillayute River					
Spring	Terminal	2,143		2,143	200
Summer	Terminal		1,132	1,132	1,200
Fall	Terminal		6,837	6,837	> of 3,000 or 60% of run
Hoh					
Spring/Summer	Terminal		1,092	1,092	>of 900 or 69% of RS
Fall	Terminal		2,583	2,583	>of 1,200 or 60% of RS
Queets					
Spring/Summer	Terminal		-	-	>of 700 or 70% of RS
Fall	Terminal	625	3,336	3,961	>of 2,500 or 60% of RS
Quinault					
Fall	Terminal	0	0	0	
North Coast totals Summer/Falls:		625	13,888	14,513	
Spring/Summers:		2,143	1,092	3,235	17,748
Grays Harbor					
Chehalis springs	Terminal		1,748	1,748	1,400
Chehalis falls	Terminal	2,103	10,807	12,910	9,753
Humtulpis falls	Terminal	2,715	5,592	8,307	3,573
Subregion Falls Total		4,818	16,399	21,217	
Willapa Bay - Fall Chinook	Terminal	40,258	3,838	44,096	
Coast total		47,844	36,965	84,809	

COLUMBIA RIVER FALL CHINOOK

2017 Forecast/Actual Returns and 2018 Preseason Forecasts

The forecasts shown here are estimates made in February in preparation for the North of Falcon season-setting process. Once the North of Falcon process is complete, these February forecasts will change slightly. Final forecasts will be available in mid-April.

Stock Group	2017		2018
	February Forecasts	Actual Returns	February Forecasts
Lower River Hatchery - LRH	92,400	64,600	62,400
Lower River Wild - LRW	12,500	7,800	7,600
Lower River Bright - LRB	NA	4,200	3,700 ³
Bonneville Pool Hatchery - BPH	158,400	48,200	50,100
Upriver Bright – URB	260,000	297,100	200,100
<i>Snake River Wild (SRW)¹</i>	<i>12,400</i>	<i>7,000</i>	NA
Bonneville Upriver Bright - BUB	3,500 ²	1,400	---
Pool Upriver Bright - PUB	42,100	46,000	36,400
Select Area Bright - SAB	13,700	6,600	5,300
Columbia River Total	582,600	475,900	365,600

¹Subset of URB

²Age 5s only. Production moved to PUB stock.

³First year for predicting LRB which was formerly a component of BUB stock.

2018 Forecasts

- ❖ **LRH** – Same as last year’s actual return. 70% of the 10-year average.
- ❖ **LRW** – About half of the 10-year average.
- ❖ **LRB** – First year for predicting LRB stock.
- ❖ **BPH** – Same as last year’s actual return. Slightly more than half of the 10-year average.
- ❖ **URB** – Slightly less than half of the 10-year average.
- ❖ **PUB** – Slightly less than half of the 10-year average.
- ❖ **SAB** – Slightly less than half of the 10-year average.
- ❖ **Total Return** – Prediction is about half of the 10-year average return. Several years of poor ocean conditions are likely contributing to the decreased returns.

February 15, 2018
Washington Department of Fish and Wildlife
U.S. v Oregon Technical Advisory Committee Sub-group