

Assumptions related to Select Area smolt production

Provided to the Joint-State Columbia River Salmon Fishery Policy Review Committee (PRC)

February 26 2019

Oregon

Sites: Youngs Bay, Tongue Point/South Channel, and Blind/Knappa sloughs

Stocks: Spring Chinook, Select Area Bright fall Chinook, tule fall Chinook, and Coho

Production:

OREGON Stock	Pre-Transition Harvest Reform				Transition Harvest Reform					Post-Transition Harvest Reform			
	2010	2011	2012	Average	2013	2014	2015	2016	Average	2017	2018	2019 ^a	Average
Spring Chinook	1,172,197	1,056,669	1,124,255	1,117,707	1,509,159	1,646,624	1,606,482	1,850,963	1,653,307	1,805,731	2,135,115	2,347,409	2,096,085
Goal (%)	1,200,000			93%	1,700,000				97%	1,950,000		3,450,000	86%
SAB Fall Chinook	914,161	1,356,859	1,358,046	1,209,689	1,850,270	2,227,353	1,670,665	621,928	1,592,554	599,463	300,460	371,816	423,913
Goal (%)	1,450,000			83%	1,950,000				82%	1,000,000			42%
Tule Fall Chinook	6,042,154	5,187,736	5,569,479	5,599,790	4,942,539	4,482,875	7,239,507	5,893,586	5,639,627	2,312,352	3,936,732	4,581,218	3,610,101
Goal (%)	5,700,000			98%	5,200,000				108%	5,200,000	4,675,000	4,650,000	75%
Coho	3,109,678	2,964,009	3,032,821	3,035,503	3,771,737	3,934,432	3,890,319	4,513,486	4,027,494	3,879,526	4,870,000	5,050,000	4,599,842
Goal (%)	3,270,000			93%	3,870,000				104%	4,870,000	5,050,000	4,480,128	96%

^a 2019 release goals reflect current Oregon Policy production targets of 3.45 million spring Chinook, 1.0 M SAB fall Chinook, and 4.48 million Coho. Out-year modelling assumes these targets will be met by 2020, 2021, and 2020, respectively.

Funding:

BPA – coho, spring Chinook, net pens

Mitchell Act – coho, tule fall Chinook,

Other Fund CBE – coho, spring Chinook

Other Fund License – coho, spring Chinook, SAB fall Chinook

General Fund/General Fund Reform - coho, SAB fall Chinook, net pens

Broodstock Sources:

Stock	Source Hatcheries				
	Willamette Basin	Big Creek	ODFW Klaskanine	CCF Klaskanine	Bonneville
Spring Chinook	X				
SAB fall Chinook			X	X	
Tule fall Chinook*		X	X		X
Coho**		X	X	X	

*All production must be from local sources

**All production must be from local stock by 2020

Washington

Sites: Deep River

Stocks: Spring Chinook and Coho

Production:

WASHINGTON	Pre-Transition Harvest Reform				Transition Harvest Reform					Post-Transition Harvest Reform			
	2010	2011	2012	Average	2013	2014	2015	2016	Average	2017	2018	2019 ^a	Average
Stock	363,000	234,000	405,000	334,000	320,000	0	0	0	80,000	0	170,000	225,000	131,667
Spring Chinook ^b													
Goal (%)	350,000			95%	250,000			32%	250,000			53%	
Tule Fall Chinook ^c	700,000	862,000	893,000	818,333	2,620,000	930,000	975,000	875,000	1,350,000	910,000	0	0	303,333
Goal (%)	700,000			117%	875,000			154%	1,000,000			91%	
Coho ^d	747,000	692,000	800,000	746,333	600,000	725,000	654,000	920,000	724,750	855,000	723,000	700,000	759,333
Goal (%)	750,000			100%	950,000			76%	950,000			700,000	97%

^a 2019 release goals reflect current Washington production targets of 0.25 million spring Chinook and 0.7 million Coho. Out-year modelling assumes these targets will be met by 2020.

^b Due to poor returns, spring Chinook production was discontinued at Deep River in 2014 and relocated to Cathlamet Channel during 2014-2018. Due to poor returns at Cathlamet Channel, production was reinstated at Deep River starting with sub-yearling releases in 2018. Therefore, releases of 200,000, 141,000, 108,000, 120,000, and 260,000 spring Chinook from Cathlamet Channel during 2014-2018 are not included since they did not contribute to a Select Area fishery.

^c Tule fall Chinook production discontinued in 2018 due to Mitchell Act BIOP.

^d Deep River net pen releases. Coho production shifted from early to late stock starting with 2018 releases.

Funding:

BPA – Coho

Mitchell Act – Coho

State funding – Spring Chinook/coho

Broodstock Sources:

Stock	Source Hatcheries				
	Kalama	Cowlitz	Grays	Beaver Creek	Lewis, Kalama, Toutle
Spring Chinook	X	X			
Coho			X	X	X

Note: Coho broodstock will only be from Grays/Beaver Creek hatcheries in the future.