

Alaska Department of Fish and Game: Hatchery Enhancement

Recent Hatchery Production								
RELEASE YEAR	SPECIES	TAGGED		UNTAGGED				TOTAL RELEASED
		AD + CWT	AD + TM + CWT	AD	TM	AD + TM	NO MARK	
2019	Chinook	414,026	680,897	¹ 45,689	6,109,010	¹ 303,685	2,039,914	9,593,221
	Coho	715,942	191,776	¹ 21,928	8,847,815	¹ 6,692	20,897,556	30,681,709
	Sockeye	0	0	0	² 42,606,536	15,230	0	42,621,766
	Pink	0	0	0	816,764,027	0	117,946,803	934,710,830
	Chum	0	0	0	689,578,906	0	0	689,578,906
Year Totals:		1,129,968	872,673	67,617	1,563,906,294	325,607	140,884,273	1,707,186,432
2020	Chinook	534,275	524,810	¹ 11,716	6,582,592	¹ 308,633	2,684,759	10,646,785
	Coho	834,060	188,418	¹ 16,817	8,965,895	¹ 4,751	26,847,648	36,857,589
	Sockeye	0	0	0	² 44,907,932	0	0	44,907,932
	Pink	0	0	0	873,683,659	0	762,491	874,446,150
	Chum	0	0	0	768,097,239	0	120,000	768,217,239
Year Totals:		1,368,335	713,228	28,533	1,702,237,317	313,384	30,414,898	1,735,075,695
2021	Chinook	235,862	538,811	¹ 2,322	7,374,656	¹ 310,584	1,120,479	9,582,714
	Coho	747,812	257,170	¹ 19,116	14,992,077	¹ 2,752	22,252,242	38,271,169
	Sockeye	0	0	0	² 43,024,537	0	383,941	43,408,478
	Pink	0	0	0	869,213,697	0	1,340,307	870,554,004
	Chum	0	0	0	720,607,491	0	30,000,000	750,607,491
Year Totals:		983,674	795,981	21,438	1,655,212,458	313,336	55,096,969	1,712,423,856
2022	Chinook	285,608	1,040,182	^{1,3} 942,833	6,150,411	^{1,3} 1,690,741	550,526	10,660,301
	Coho	843,841	234,912	¹ 22,217	13,876,421	¹ 2,510	20,281,672	35,261,573
	Sockeye	0	0	0	² 42,118,063	0	584,983	42,703,046
	Pink	0	0	0	1,033,865,173	0	5,186,382	1,039,051,555
	Chum	0	0	0	729,657,802	0	30,800,000	760,457,802
Year Totals:		1,129,449	1,275,094	965,050	1,825,667,870	1,693,251	198,404,232	1,888,134,277
2023 (est)	Chinook	270,535	985,285	^{1,3} 893,074	4,970,768	^{1,3,4} 2,448,667	552,427	10,120,755
	Coho	785,414	218,069	¹ 20,020	11,670,552	¹ 4,176	22,569,780	35,268,010
	Sockeye	0	0	0	² 43,164,267	3,808	242,231	43,410,306
	Pink	0	0	0	898,381,639	0	31,308,996	929,690,635
	Chum	0	0	0	726,985,360	0	15,230,000	742,215,360
Year Totals:		1,055,948	1,203,354	913,093	1,685,964,650	1,664,586	69,903,433	1,760,705,065

¹ These values include small portions of coded wire tagged releases that lost their tags prior to release. They were not all intended to be released without a CWT

² These values include sockeye that Snettisham Hatchery releases in BC as part of the TBR enhancement activities. There were 3,618,900 released in 2019; 4,569,300 released in 2020; 1,930,000 released in 2021; and 2,982,600 released in 2022. We estimate that ~2.3million will be released in 2023.

³ These values include mass marked Chinook that Southern Southeast Regional Aquaculture Association (SSRAA) began releasing for the first time in 2022. They intend to continue releasing mass marked Chinook.

⁴ This value includes the first mass marked releases from Macaulay Hatchery (operated by DIPAC). They also plan to otolith mark all of these fish. They will likely continue releasing mass marked Chinook in the future.

All Alaskan hatchery release data can be queried and downloaded through the Regional Mark Information System or through the "Hatchery Release Report" on ADF&G's website at:

<https://mtalab.adfg.alaska.gov/CWT/reports/default.aspx>

Alaska Department of Fish and Game: Hatchery Enhancement

Projected 2023 Hatchery Production by Region

REGION	SPECIES	TAGGED		UNTAGGED				TOTAL RELEASED
		AD + CWT	AD + TM + CWT	AD	TM	AD + TM	NO MARK	
Southeast	Chinook	270,535	985,285	^{1,3} 893,074	3,110,622	^{1,3} 2,165,867	513,753	7,939,135
	Coho	785,414	218,069	¹ 20,020	4,634,954	⁴ 4,176	21,990,338	27,652,970
	Sockeye	0	0	0	² 10,222,400	0	0	10,222,400
	Pink	0	0	0	51,289,047	0	1,889,730	53,178,777
	Chum	0	0	0	571,704,096	0	15,230,000	586,934,096
Region Sub Totals:		1,055,948	1,203,354	0	640,961,118	2,170,043	39,623,821	685,927,379
Southcentral	Chinook	0	0	0	1,859,072	282,800	1,889	2,143,761
	Coho	0	0	0	5,758,536	0	1,063	5,759,598
	Sockeye	0	0	0	30,100,538	3,808	0	30,104,346
	Pink	0	0	0	714,912,482	0	0	714,912,482
	Chum	0	0	0	127,535,735	0	0	127,535,735
Region Sub Totals:		0	0	0	880,166,363	286,608	2,952	880,455,922
Arctic, Yukon, Kuskokwim	Chinook	0	0	0	1,075	0	0	1,075
	Coho	0	0	0	47,402	0	0	47,402
	Chum	0	0	0	125,561	0	0	125,561
Region Sub Totals:		0	0	0	174,038	0	0	174,038
Westward	Chinook	0	0	0	0	0	36,785	36,785
	Coho	0	0	0	1,229,661	0	578,379	1,808,040
	Sockeye	0	0	0	2,841,329	0	242,231	3,083,560
	Pink	0	0	0	132,180,110	0	29,419,266	161,599,376
	Chum	0	0	0	27,619,967	0	0	27,619,967
Region Sub Totals:		0	0	0	163,871,066	0	30,276,660	194,147,727
All Regions	Chinook	270,535	985,285	^{1,3} 893,074	4,970,768	^{1,3} 2,448,667	552,427	10,120,755
	Coho	785,414	218,069	¹ 20,020	11,670,552	⁴ 4,176	22,569,780	35,268,010
	Sockeye	0	0	0	² 43,164,267	3,808	242,231	43,410,306
	Pink	0	0	0	898,381,639	0	31,308,996	929,690,635
	Chum	0	0	0	726,985,360	0	15,230,000	742,215,360
Grand Totals:		1,055,948	1,203,354	0	1,685,172,585	2,456,651	69,903,433	1,760,705,065

Projections are based on the average releases from 2019 - 2022

¹ These values include small portions of coded wire tagged releases that lost their tags prior to release. They were not all intended to be released without a CWT

² These values include sockeye that Snettisham Hatchery releases in BC as part of the TBR enhancement activities. We estimate that ~2.3million will be released in 2023.

³ These values include projected mass marked releases conducted by Southern Southeast Regional Aquaculture Association (SSRAA) and Macaulay Salmon Hatchery. Hatcheries operated by SSRAA began releasing mass marked Chinook for the first time in 2022 and Macaulay Hatchery will be releasing their first mass marked Chinook in 2023.

Alaska Department of Fish and Game: Wild Coded Wire Tagged Releases

Recent Wild Tagged Releases

Release Year	SPECIES	TAGGED		UNTAGGED				TOTAL RELEASED
		AD + CWT	AD + TM + CWT	AD ¹	TM	AD + TM	NO MARK ²	
2019	Chinook	160,095	0	327	0	0	0	160,422
	Coho	70,738	0	357	0	0	135	71,230
Year Totals:		230,833	0	684	0	0	135	231,652
2020	Chinook	161,952	0	106	0	0	0	162,058
	Coho	67,385	0	482	0	0	0	67,867
Year Totals:		229,337	0	588	0	0	0	229,925
2021	Chinook	129,055	0	67	0	0	0	129,122
	Coho	57,581	0	576	0	0	0	58,157
Year Totals:		186,636	0	643	0	0	0	187,279
2022	Chinook	133,186	0	95	0	0	0	133,281
	Coho	93,830	0	621	0	0	0	94,451
Year Totals:		227,016	0	716	0	0	0	227,732
2023 (est)	Chinook	146,070	0	150	0	0	0	146,220
	Coho	72,380	0	510	0	0	30	72,920
Year Totals:		218,450	0	660	0	0	30	219,140

¹ The values in this column represent small portions of coded wire tagged releases that lost their tags. They were not intended to be released without a CWT

² The values in this column represent fish that were captured and counted during wild tagging operations, but were released without being marked or tagged.

Projected 2023 Wild Tagged Releases by Region

REGION	SPECIES	TAGGED		UNTAGGED				TOTAL RELEASED
		AD + CWT	AD + TM + CWT	AD	TM	AD + TM	NO MARK	
Southeast	Chinook	117,260	0	110	0	0	0	117,370
	Coho	72,380	0	510	0	0	30	72,920
Region Sub Totals:		189,640	0	620	0	0	30	190,290
Southcentral	Chinook	28,810	0	40	0	0	0	28,850
	Region Sub Totals:		28,810	0	40	0	0	0
All Regions	Chinook	146,070	0	150	0	0	0	146,220
	Coho	72,380	0	510	0	0	30	72,920
Grand Totals:		218,450	0	660	0	0	30	219,140

Projections are based on the average releases from 2019 - 2022

2023 CWT & MM Plans for NWIFC Member Tribes*

Species	Run	AD+CWT	CWT Only	AD Only	Total
Chinook	Spring	600,000	250,000	4,600,000	5,450,000
	Summer	300,000	1,900,000	400,000	2,600,000
	Fall	1,680,000	800,000	7,350,000	9,830,000
	sub total	2,580,000	2,950,000	12,350,000	17,880,000
Coho	Summer	100,000	0	0	100,000
	Fall	825,000	250,000	6,825,000	7,900,000
	sub total	925,000	250,000	6,825,000	8,000,000
Steelhead	Winter	70,000	0	335,000	405,000
	Totals	3,575,000	3,200,000	19,510,000	26,285,000

*Includes marking conducted by WDFW

IDFG production plans and marking/tagging in 2023

Mass Marking - With the exception of some limited releases intended for supplementation or specific broodstock management purposes, most spring/summer chinook salmon (93%) and steelhead (85%) are mass marked with an adipose fin clip (see tables below).

Mark Selective Fisheries- Recreational fisheries for spring/summer Chinook salmon and steelhead in Idaho are mark selective. Tribal fisheries in Idaho are non-selective.

Brood Year 2022 Spring/Summer Chinook and Sockeye Salmon- Marking/Tagging in 2023

Fish Hatchery	Species	Release Site	Marks & Tags				Total
			AD	AD/CWT	CWT	PBT Only	
Clearwater	Spring Chinook Salmon	Clear Creek	620,000	120,000			740,000
	Spring Chinook Salmon	Lower Selway R.	155,000	120,000	136,000		411,000
	Spring Chinook Salmon	NF Clearwater	490,000	120,000			610,000
	Summer Chinook Salmon	Powell Pond	20,000	120,000	120,000	200,000	460,000
	Spring Chinook Salmon	Red River Pond	1,010,000	120,000			1,130,000
Clearwater Total			2,295,000	600,000	256,000	200,000	3,351,000
McCall	Summer Chinook Salmon	S.F. Salmon R. (Integrated)			130,000		130,000
	Summer Chinook Salmon	S.F. Salmon R. (Segregated)	800,000	120,000			920,000
McCall Total			800,000	120,000	130,000	0	1,050,000
Pahsimeroi	Summer Chinook Salmon	Pahsimeroi R. (Integrated)			65,000		65,000
	Summer Chinook Salmon	Pahsimeroi R. (Segregated)	910,000	120,000			1,030,000
Pahsimeroi Total			910,000	120,000	65,000	0	1,095,000
Rapid River	Spring Chinook Salmon	Hells Canyon	350,000				350,000
	Spring Chinook Salmon	Little Salmon	150,000				150,000
	Spring Chinook Salmon	Rapid River	2,680,000	120,000			2,800,000
Rapid River Total			3,180,000	120,000	0	0	3,300,000
Sawtooth	Spring Chinook Salmon	Sawtooth weir (Integrated)			163,000		163,000
	Spring Chinook Salmon	Sawtooth weir (Segregated)	1,400,000	120,000			1,520,000
	Spring Chinook Salmon	Yankee Fork	193,000	120,000			313,000
Sawtooth Total			1,593,000	240,000	163,000	0	1,996,000
Springfield	Sockeye Salmon	Upper Salmon R. & Redfish Lake Cr.	1,000,000				1,000,000
Grand Total			9,778,000	1,200,000	614,000	200,000	11,792,000

Does not include spring Chinook production from Dworshak National Fish Hatchery (NPT), Kooskia National Fish Hatchery (NPT), Nez Perce Tribal Hatchery (NPT), or Fall Chinook from NPTH. Also, does not include Fall Chinook production (1.0M sub-yearlings) from the Idaho Power Company because these fish are reared and marked/tagged at Irrigon Fish Hatchery in Oregon.

Brood Year 2023 Steelhead- Marking/Tagging in 2023

		Marks & Tags		
Fish Hatchery	Release Site	AD-Clip	CWT Only	Grand Total
Clearwater	Newsome Cr.		123,000	123,000
	Red House Hole	219,000		219,000
	Meadow Cr	291,000	210,000	501,000
Clearwater Total		510,000	333,000	843,000
Hagerman National	Sawtooth Weir	1,410,000		1,410,000
	Upper EF.Salmon R. (Weir)		60,000	60,000
	Sawtooth Weir (PRAS)	90,000		90,000
Hagerman National Total		1,500,000	60,000	1,560,000
Magic Valley	Pahsimeroi Trap		434,000	434,000
	Sawtooth Weir	279,000		279,000
	Little Salmon R.	403,000		403,000
	Yankee Fork	434,000		434,000
Magic Valley Total		1,116,000	434,000	1,550,000
Niagara Springs	Hells Canyon Dam	550,000		550,000
	Pahsimeroi Trap	800,000		800,000
	Little Salmon R.	450,000		450,000
Niagara Springs Total		1,800,000	0	1,800,000
Grand Total		4,926,000	827,000	5,753,000

Does not include production from Dworshak National Fish Hatchery (NPT).

Pacific Northwest USFWS – 2023 Planned Releases of Hatchery Fish – by Mark and Tag Status

Production in italics will be released and reported by another agency

31-Mar-23

Hatchery	Species/Run	Stock	CWT+AD	CWT only	AD only	None	Total
Spring Creek NFH	Fall Chinook	Spring Creek	405,000	405,000	8,690,000	0	9,500,000
Little White Salmon NFH	URB Chinook	Little White Salmon	200,000	200,000	4,100,000	0	4,500,000
Willard NFH	URB Chinook	Little White Salmon	100,000	100,000	1,800,000	0	2,000,000
<i>Little White Salmon NFH</i>	<i>URB Chinook</i>	<i>Little White Salmon</i>	<i>140,000</i>	<i>0</i>	<i>960,000</i>	<i>0</i>	<i>1,100,000</i>
<i>Prosser</i>	<i>URB Chinook</i>	<i>Little White Salmon</i>	<i>60,000</i>	<i>0</i>	<i>540,000</i>	<i>0</i>	<i>600,000</i>
Entiat NFH	Summer Chinook	Entiat - 1+	220,000	0	200,000	0	420,000
Carson NFH	Spring Chinook	Carson - 1+	87,500	0	1,420,000	0	1,507,500
Little White Salmon NFH	Spring Chinook	Little White Salmon - 1+	100,000	0	1,550,000	0	1,650,000
Warm Springs NFH	Spring Chinook	Warm Springs - 1+	188,000	0	0	0	188,000
Warm Springs NFH	Spring Chinook	Wild - 1+	0	0	0	37,000	37,000
Leavenworth NFH	Spring Chinook	Leavenworth - 1+	200,000	0	1,000,000	0	1,200,000
Winthrop NFH	Spring Chinook	Methow - 1+	420,000	0	0	0	420,000
Kooskia NFH	Spring Chinook	Kooskia - 1+	100,000	0	350,000	50,000	500,000
<i>Dworshak NFH</i>	<i>Spring Chinook</i>	<i>Dworshak - 1+</i>	<i>120,000</i>	<i>0</i>	<i>1,530,000</i>	<i>0</i>	<i>1,650,000</i>
Coleman NFH	Late-Fall Chinook	Sacramento	1,000,000	0	0	0	1,000,000
Coleman NFH	Fall Chinook	Sacramento	3,125,000	0	0	9,375,000	12,500,000
Coleman NFH	Fall Chinook	Sacramento - unfed fry	0	0	0	2,750,000	2,750,000
Livingston Stone NFH	Winter Chinook	Sacramento	730,000	0	0	0	730,000
Livingston Stone NFH	Winter Chinook	Sacramento	180,000	0	0	0	180,000
Makah NFH	Fall Chinook	Tsoo-Yess R.	200,000	0	1,500,000	0	1,700,000
Chinook Total	Ad-clipped % = 71%		7,575,500	705,000	23,640,000	12,212,000	44,132,500
Eagle Creek NFH	Coho	Eagle Creek - 1+	25,000	25,000	300,000	0	350,000
<i>Eagle Creek NFH</i>	<i>Coho</i>	<i>Clearwater River - 1+</i>	<i>0</i>	<i>30,000</i>	<i>0</i>	<i>245,000</i>	<i>275,000</i>
<i>Eagle Creek NFH</i>	<i>Coho</i>	<i>Clearwater River - 1+</i>	<i>0</i>	<i>30,000</i>	<i>0</i>	<i>245,000</i>	<i>275,000</i>
<i>Eagle Creek NFH</i>	<i>Coho</i>	<i>Eagle Creek/Yakima R. - 1+</i>	<i>0</i>	<i>0</i>	<i>500,000</i>	<i>0</i>	<i>500,000</i>
<i>Willard NFH</i>	<i>Coho</i>	<i>Wenatchee R. - 1+</i>	<i>0</i>	<i>550,000</i>	<i>0</i>	<i>540,000</i>	<i>1,090,000</i>
<i>Cascade Hatchery</i>	<i>Coho</i>	<i>Wenatchee R. - 1+</i>	<i>0</i>	<i>460,000</i>	<i>0</i>	<i>258,000</i>	<i>718,000</i>
<i>Winthrop NFH</i>	<i>Coho</i>	<i>Wenatchee R. - 1+</i>	<i>0</i>	<i>420,000</i>	<i>0</i>	<i>0</i>	<i>420,000</i>
Makah NFH	Coho	Cook Creek - 1+	106,000	0	0	0	106,000
Makah NFH	Coho	Cook Creek - pre-smolts	0	0	230,000	0	230,000
Quinalt NFH	Coho	Cook Creek - 1+	80,000	0	580,000	0	660,000
Quicene NFH	Coho	Big Quilcene R. - 1+	80,000	80,000	440,000	0	600,000
Coho Total	Ad-clipped % = 45%		291,000	1,595,000	2,050,000	1,288,000	5,224,000
Winthrop NFH	Steelhead	Wells/Methow	200,000	0	0	0	200,000
<i>Dworshak NFH</i>	<i>Steelhead</i>	<i>Dworshak</i>	<i>180,000</i>	<i>0</i>	<i>1,720,000</i>	<i>200,000</i>	<i>2,100,000</i>
Coleman NFH	Steelhead	Coleman NFH	0	0	600,000	0	600,000
Makah NFH	Steelhead	Makah NFH - Tsoo-Yess R.	0	0	185,000	0	185,000
Quinalt NFH	Steelhead	Cook Creek	20,000	0	200,000	0	220,000
Steelhead Total	Ad-clipped % = 94%		400,000	0	2,705,000	200,000	3,305,000
Quinalt NFH	Chum	Cook Creek	0	0	0	2,000,000	2,000,000
Chum Total	Ad-clipped % = 0%		0	0	0	2,000,000	2,000,000
Total			8,266,500	2,300,000	28,395,000	15,700,000	54,661,500

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RMIS REPORT

California

Chinook and Coho Coded Wire Tagging

Brood Year (BY) 2021 and projected BY 2022

Jason Azat

4/13/2023

Feather Hatchery

Chinook Fall

BY 2021 8,700,000 27%

BY 2022 8,800,000 27%

Chinook Spring

BY 2021 2,400,000 60%

BY 2022 2,300,000 100%

Merced Hatchery

Chinook Fall

BY 2021 90,000 100% CWT

BY 2022 1,000,000 25% CWT

Mokelumne Hatchery

Chinook Fall

By 2021 6,700,000 28% CWT

By 2022 7,000,000 28% CWT

Nimbus Hatchery

Chinook Fall

BY 2021 4,500,000 25% CWT

BY 2022 4,500,000 25% CWT

BY 2022 1,000,000 0% CWT, genetic

Iron Gate Hatchery

Chinook Fall

By 2021 5,200,000 46% CWT

By 2022 5,500,000 25% CWT

Trinity Hatchery

Chinook Fall

BY 2021 2,800,000 25% CWT

BY 2022 2,400,000 25% CWT

Chinook Spring

BY 2021 1,100,000 25% CWT

BY 2022 1,500,000 25% CWT

Coho Fall

BY 2021 250,000 100% CWT

BY 2022 190,000 100% CWT

From: [Bill Bosch](#)
To: [Jim Longwill](#)
Cc: [Marianne McClure](#)
Subject: RE: Announcing RCMT Hybrid Meeting Hosted in Portland for 2023 Tuesday, March 21, 2023 1:51:42 PM
Date:

Hi Jim,

Here are approximate Yakama Nation Planned 2023 releases:

Yakima Basin

Spring Chinook: ~800,000-850,000 total release (89% CWT in snout, 11% CWT in post-dorsal)

Fall Chinook:

released from Prosser, approximately 1.6m subyearlings (LWS NFH transfers) and 210,000 yearlings (Bonneville Hatchery transfers)

Prosser URBs released from Prosser, ~430,000, 20% PIT, no CWT

Summer Chinook: ~500,000 Wells stock subyearlings released from Yakima R. acclimation sites, 100% CWT

Sockeye: natural-origin progeny of adult plants; minimal marking (PIT) at downstream juvenile sampling stations

Coho: ~0.5million total release from Prosser (adipose fin clip only) and about 189,400 release from Melvin Sampson facility near Ellensburg (no mark)

Mid-Columbia Coho: ~1.7million total release, 70% CWT, 100% PBT

Klickitat Basin

Spring Chinook: ~570,000 total release, ~25% CWT

Fall Chinook: ~5.3m total release, ~15% CWT

Coho:

Lewis stock released from Klick. Hatchery, ~1.1m, ~5% CWT

Washougal stock direct released in lower Klick. R., ~1.5m

Bill Bosch

Research and Data Coordinator

Yakima-Klickitat Fisheries Project

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Yakima, WA 98908

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CHIEF JOSEPH HATCHERY PROGRAM SUMMER CHINOOK

Mark Group	Target max smolt released	Life-stage released	% CWT (#)	Adipose Fin-Clip	PIT tag
<u>Okanogan Integrated</u>	1,100,000				
Similkameen Pond	400,000	Yearling	100%	100%	5,000
Omak Pond	400,000	Yearling	100%	100%	5,000
Omak Pond	300,000	Sub-yearling	100%	100%	5,000
<u>Chief Joseph Segregated</u>	900,000				
	500,000	Yearling	20% (100,000)	100%	5,000
	400,000	Sub-yearling	25% (100,000)	100%	5,000
Natural-Origin	RST and Confluence Seine	N/A	0%	0%	≤ 30,000

CHIEF JOSEPH HATCHERY PROGRAM SPRING CHINOOK

Mark Group	Smolt released	Life-stage released	% CWT (#)	Adipose Fin-Clip	PIT tag
<u>Chief Joseph Segregated</u>	700,000	Yearling	29% (200,000)	100%	5,000
<u>Reintroduction Integrated (\$10(j) fish from Winthrop)</u>					
Riverside Pond	200,000	Yearling	100%	0%	5,000
Natural-Origin	RST	Yearling	0%	0%	≤ 5,000