

**2025 Summer Mark-Selective Recreational Chinook Fisheries  
In Marine Areas 5, 6, 7, 9, 10, 11, 12 and 13**

**Post-season Report**

**DRAFT**

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## INTRODUCTION

In the marine environments of the Strait of Juan de Fuca and Puget Sound, abundant runs of hatchery Chinook salmon (*Oncorhynchus tshawytscha*) have been mixed with depressed stocks of natural-origin Chinook salmon for many years. Providing recreational anglers with opportunities to harvest abundant hatchery stocks while simultaneously protecting weaker, natural-origin stocks has proven to be a significant conservation and management challenge. The combination of large-scale hatchery marking (i.e., adipose fin clipping) programs and mark-selective harvest regulations makes it possible for anglers to pursue and harvest hatchery Chinook salmon while minimally impacting natural-origin salmon populations. In such “mark-selective fisheries” (MSFs), recreational anglers are allowed to retain adipose-fin clipped (“marked”) hatchery fish and are required to release unharmed any unclipped (“unmarked”, predominantly natural-origin) salmon that are encountered<sup>1</sup>.

Since the Washington Department of Fish and Wildlife (WDFW) implemented the first mark-selective Chinook salmon fisheries in Marine Areas 5 and 6 (Strait of Juan de Fuca) in 2003 based on state-tribal agreements (Thiesfeld and Hagen-Breaux 2005a, 2005b, & 2006; WDFW 2008a), mark-selective Chinook salmon fishing regulations have been implemented in multiple Marine Areas in Puget Sound during both the summer and winter seasons.

During the 2025 summer season, May through September, WDFW implemented mark-selective Chinook salmon fisheries in Marine Areas 5, 6, 7, 9, 10, 11, 12 and 13. The Chinook MSF seasons in each area were scheduled as follows, though in some Areas management criteria were met prior to the end date and closed early:

- Marine Area 5 from July 1 through August 15, 2025
- Marine Area 6 from July 1 through August 15, 2025
- Marine Area 7 from July 17 through August 15, 2025 (3-day openers)
- Marine Area 9 from July 17 through August 15, 2025 (3-day openers)
- Marine Area 10 from July 17 through August 31, 2025 (3-day openers)
- Marine Area 11 from June 1 through June 30, 2025 (4-day openers)
- Marine Area 11 from July 17 through September 30, 2025 (3-day openers)
- Marine Area 12 from July 1 through September 30, 2025
- Marine Area 13 from May 1 through September 30, 2025

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<sup>1</sup> The regulations specific to summer mark-selective fisheries in Puget Sound Marine Catch Areas allowed for the retention of one or two legal-size (>22 inches [56 cm] or >20 inches [51cm]) marked Chinook salmon per day, depending on the Marina Area and required the immediate release of all unmarked or sublegal Chinook salmon. Additionally, anglers were: i) required to use single-point, barbless hooks while fishing for salmon, ii) held to a combined (all salmon species) two-fish daily limit, and iii) held to a handling rule that prevented them from bringing unmarked and/or sublegal Chinook aboard their vessels.

## **RESULTS**

### **1) Marine Area 5 Summer Mark-Selective Chinook Fishery**

The Washington Department of Fish and Wildlife (WDFW) implemented a Chinook MSF in Marine Area 5, originally scheduled for July 1 through August 15, 2025. The fishery closed early, on August 12, when the legal-size encounters met pre-season FRAM predicted values. WDFW's Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, a Full Murthy design, in Marine Area 5 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included dockside creel sampling, on-the-water effort surveys, test-fishing, and efforts to collect voluntary salmon trip reports (STRs) from the angling public. **Table 1.1** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). The fishery control for this area was based on the preseason Fishery Regulation Assessment Model (FRAM) prediction of 6,247 total legal-size Chinook salmon encounters (**Table 1.4**). In this section we present results from our monitoring activities during the Area 5 summer Chinook MSF.

**Table 1.1** Sampling/estimation details on target parameters associated with the overall Marine Area 5 summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish <sup>1</sup>	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	One week	Creel estimates were produced for one-week estimation periods and stratified into “weekday” (Mon.-Thurs.) and “weekend” (Fri.-Sun.) day-type strata within weeks. For the weekday stratum we sampled $n=2$ days out of $N=4$ available weekdays per one-week period. For the weekend stratum we sampled $n=3$ days out of $N=3$ available weekend days per week.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 1.9</b> ). (See Conrad & McHugh 2008).
On-the-water Surveys	Proportion of total angler effort that uses sample-frame sites (i.e., site “size measures”) versus out-of-frame sites.	Total on-water boat and angler counts at assumed peak effort time interval (instantaneous count); spatial distribution of recreational fishing boats in the area.	Boats and anglers	Month	A total of 7 (4 weekday and 3 weekend) boat surveys were conducted during the Area 5 summer Chinook MSF.
Test Fishing	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Chinook length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook encounters	Fish encounter	Season	Test fishing collected data when the fishery was open to Chinook retention. These data were used for estimating encounters and mortalities during this fishery. LM = 22.5%; LU = 15.5%; SM = 49.0%; SU = 13.0% ( <b>Table 1.11</b> ).
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Encounter data for non-Chinook salmon species (e.g., Coho salmon) that the angler may record on the STR form	Fish encounter	Season	No STRs were returned during this fishery. Test fishing data were used for estimates of encounters and mortalities for this fishery.
Overall Fishery Impacts Estimation	Total Chinook salmon encounters and mortalities by size/mark-status group	Ratios of encounters and mortalities per kept Chinook salmon	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

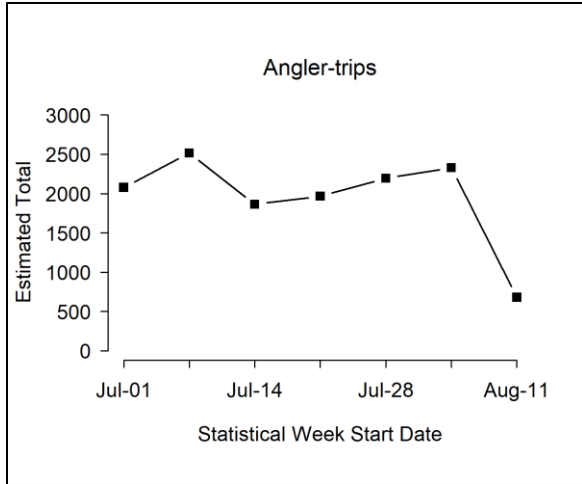
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 1.2** Estimates of total fishing effort and total salmon catch (harvest and releases) during the summer Chinook MSF in Marine Area 5. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

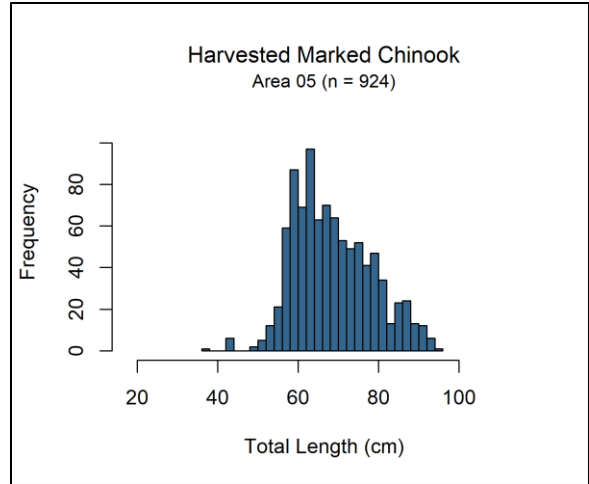
Month	Stat Week	Start Date	End Date	Est. Effort		Est. Retained Chinook		Est. Released Chinook		Total Est. Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
July	27	1-Jul	6-Jul	864	2,077	834	0	2,056	1,152	4,042
	28	7-Jul	13-Jul	1,017	2,516	786	8	1,938	1078	3,809
	29	14-Jul	20-Jul	840	1,862	548	2	1,352	755	2,658
	30	21-Jul	27-Jul	886	1,966	353	7	871	481	1,712
	31	28-Jul	3-Aug	939	2,194	605	14	1,492	822	2,934
Aug	32	4-Aug	10-Aug	914	2,328	735	6	1,813	1,009	3,564
	33	11-Aug	12-Aug	298	680	192	0	473	265	929
<b>Season Total:</b>				<b>5,758</b>	<b>13,622</b>	<b>4,052</b>	<b>37</b>	<b>9,996</b>	<b>5,562</b>	<b>19,647</b>
<b>Variance:</b>				64,813	426,498	41,084	155	3,075,138	778,052	7,669,422
<b>SE:</b>				255	653	203	12	1,754	882	2,769
<b>CV (%):</b>				4	5	5	34	18	16	14
<b>95% CI:</b>				5,259 - 6,257	12,342 - 14,902	3,655 - 4,449	13 - 62	6,558 - 13,433	3,833 - 7,291	14,219 - 25,075

**Table 1.3** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the summer Chinook MSF in Marine Area 5.

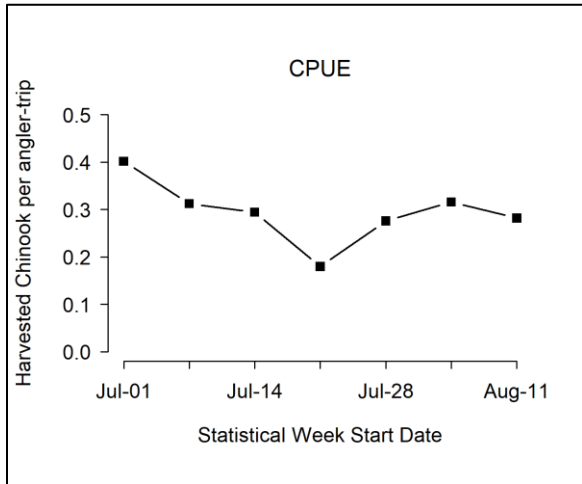
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	877	47	924
Unmarked	8	1	9
<b>Total</b>	<b>885</b>	<b>48</b>	<b>933</b>



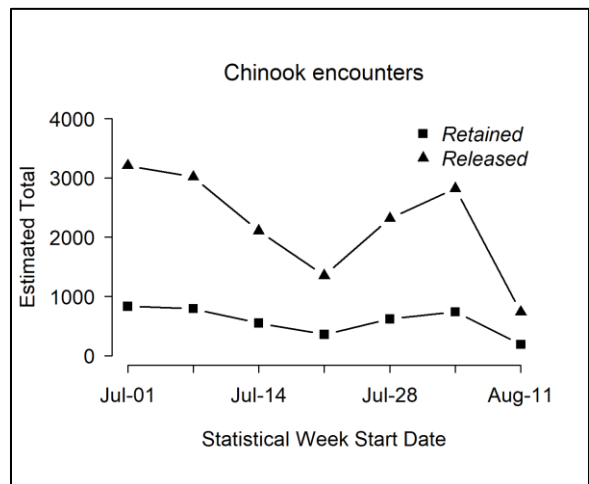
**Figure 1.1** Temporal patterns in fishing effort during the summer Chinook MSF in Marine Area 5.



**Figure 1.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the summer Chinook MSF in Marine Area 5. Note: displayed values are observations where lengths are taken.



**Figure 1.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the summer Chinook MSF in Marine Area 5.



**Figure 1.4** Temporal patterns in Chinook salmon encounters (retained and released) during the summer Chinook MSF in Marine Area 5.

**Table 1.4** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 5. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

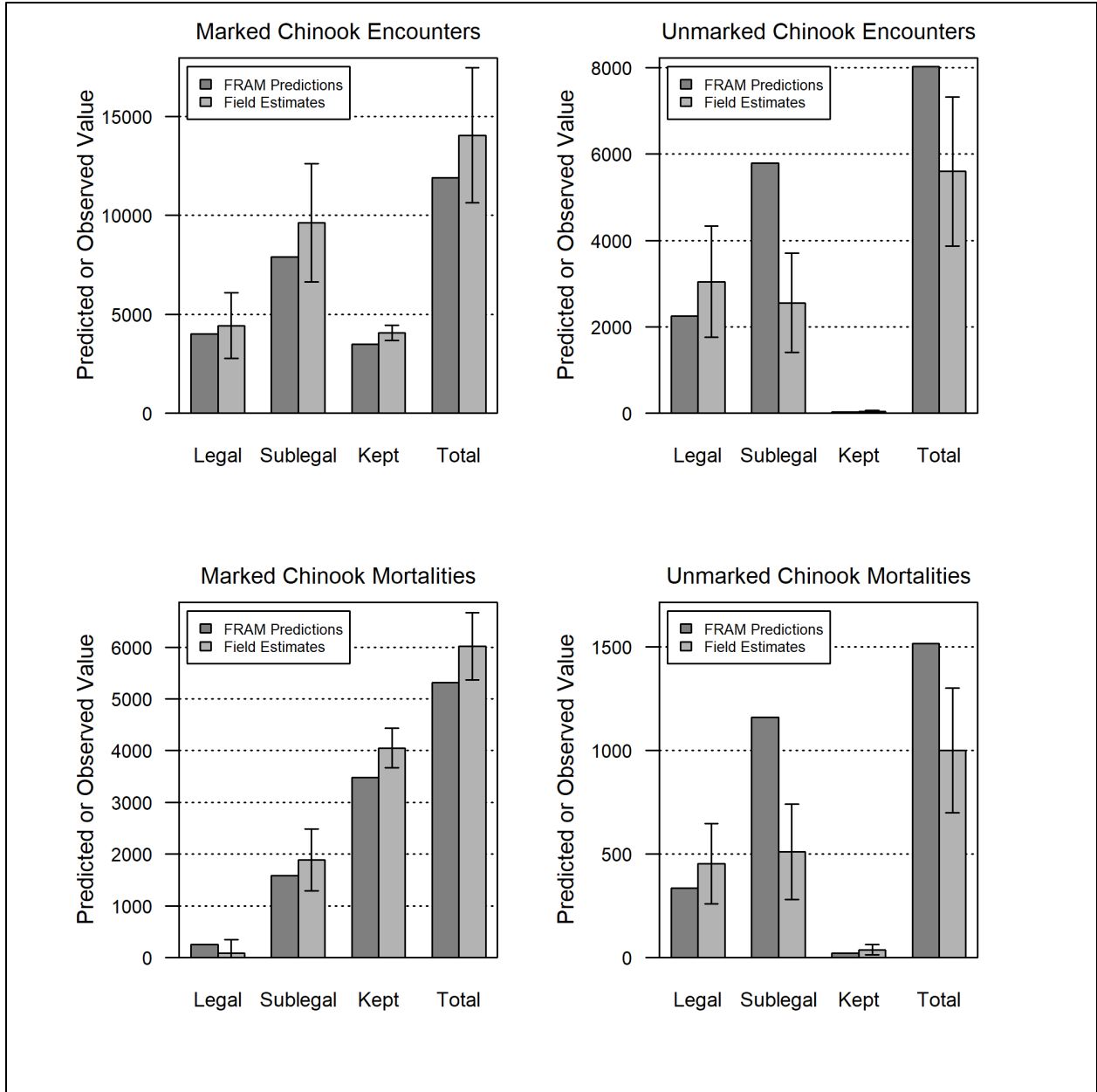
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	8,033	2,243	5,790	22
	AD	11,908	4,004	7,904	3,484
	Total	19,941	6,247	13,694	3,506
	% Marked	60	64	58	99
Estimated (Creel) Encounters	UM	5,599	3,045	2,554	37
	AD	14,048	4,421	9,627	4,052
	Total	19,647	7,466	12,181	4,089
	% Marked	72	59	79	99

**Table 1.5** Summary of season-wide fishery impact estimates for the summer Chinook MSF in Marine Area 5. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	4,421	3,846	575	86	3,932	54,914	234	3,473 - 4,391	6
Legal UM	3,045	33	3,012	452	485	9,889	99	290 - 680	21
Sublegal AD	9,627	206	9,421	1,884	2,090	93,663	306	1,490 - 2,690	15
Sublegal UM	2,554	4	2,550	510	514	13,803	117	284 - 744	23
<b>Total</b>	<b>19,647</b>	<b>4,089</b>	<b>15,558</b>	<b>2,932</b>	<b>7,021</b>	<b>172,269</b>	<b>415</b>	<b>6,208 - 7,835</b>	<b>6</b>

**Table 1.6** Comparison of modeled and estimated total Chinook salmon mortalities for the summer Chinook MSF in Marine Area 5. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	1,515	5,317	6,832	999	6,022	7,021
Released Legal	335	252	587	452	86	538
Released Sublegal	1,158	1,581	2,739	510	1,884	2,394
Landed Only	22	3,484	3,506	37	4,052	4,089



**Figure 1.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the summer Chinook MSF in Marine Area 5. Error bars represent approximately 95% confidence intervals for field estimates.

**Table 1.7** Summary of the total number of anglers intercepted during on-the-water surveys conducted for the summer Chinook MSF in Marine Area 5. Sites in bold represent those included in the dockside sample frame.

Site Name	Weekday Anglers	Season Total (unadjusted) Size Measure	Weekend Anglers	Season Total (unadjusted) Size Measure
Coho Resort	34	0.0613	40	0.0660
<b>Curley's Resort</b>	<b>25</b>	<b>0.0450</b>	<b>13</b>	<b>0.0215</b>
<b>Mason's East Docks</b>	<b>142</b>	<b>0.2559</b>	<b>167</b>	<b>0.2756</b>
<b>Mason's Ramp &amp; Docks</b>	<b>76</b>	<b>0.1369</b>	<b>105</b>	<b>0.1733</b>
Mason's Resort	5	0.0090	3	0.0050
Mason's South Dock	10	0.0180	14	0.0231
<b>Mason's West Docks</b>	<b>17</b>	<b>0.0306</b>	<b>20</b>	<b>0.0330</b>
Neah Bay General	3	0.0054	4	0.0066
Private	13	0.0234	35	0.0578
Shilshole Marina	3	0.0054	0	0.0000
<b>Van Riper's North</b>	<b>49</b>	<b>0.0883</b>	<b>40</b>	<b>0.0660</b>
<b>Van Riper's South</b>	<b>178</b>	<b>0.3207</b>	<b>164</b>	<b>0.2706</b>
Marina West	0	0.0000	1	0.0017
<b>Total Anglers</b>	<b>555</b>	<b>1</b>	<b>606</b>	<b>1</b>

**Table 1.8** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the summer Chinook MSF in Marine Area 5. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
July	27 - 31	1 Jul - 3 Aug	3,125	31	3,156	728	7	735	23.30%
August	32 - 33	4 Aug - 12 Aug	927	6	933	246	3	249	26.70%
<b>Season Total</b>			<b>4,052</b>	<b>37</b>	<b>4,089</b>	<b>974</b>	<b>10</b>	<b>984</b>	<b>24.10%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the summer Chinook MSF in Marine Area 5 (creel estimates and fish sampled as part of baseline sampling).

**Table 1.9** Dockside encounters (retained and released) by size-mark category during the summer Chinook salmon MSF in Marine Area 5. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

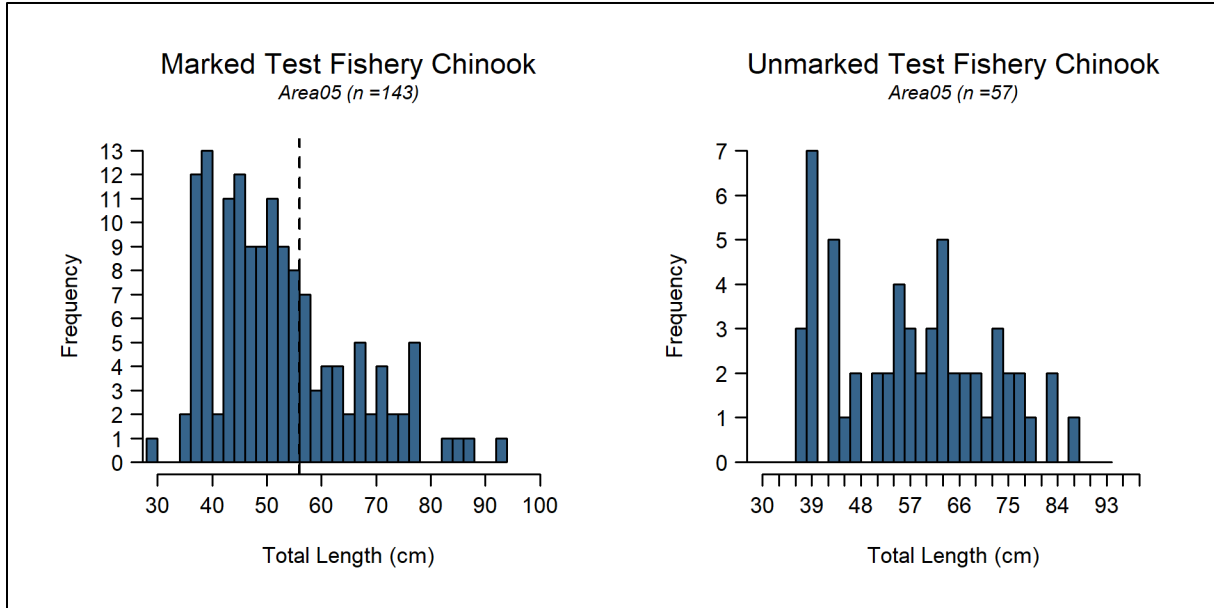
Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	908	585	481	344
Bias-corrected size/mark composition	34.86%	25.24%	20.75%	19.15%
Variance	0.0002742	0.0003965	0.000237	0.0002126

**Table 1.10** Fishery-total estimates of retained and released salmon (other than Chinook) for the summer Chinook MSF in Marine Area 5. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Start Date	End Date	Retained Salmon					Released Salmon					
			Coho AD	Coho UM	Coho UNK	Pink	Unknown	Coho AD	Coho UM	Coho UNK	Chum	Pink	Unknown
27	1-Jul	6-Jul	39	3	0	3	35	0	7	48	0	0	11
28	7-Jul	13-Jul	59	0	0	40	10	16	98	9	14	40	203
29	14-Jul	20-Jul	76	3	0	76	0	23	30	24	0	57	127
30	21-Jul	27-Jul	87	4	7	609	14	35	100	38	2	197	103
31	28-Jul	3-Aug	363	24	0	1,581	0	42	801	126	0	1,098	102
32	4-Aug	10-Aug	345	49	0	2,133	13	64	298	61	0	878	243
33	11-Aug	12-Aug	252	0	0	387	4	30	161	0	0	234	0
<b>Season Total:</b>			<b>1,222</b>	<b>83</b>	<b>7</b>	<b>4,828</b>	<b>76</b>	<b>211</b>	<b>1,494</b>	<b>305</b>	<b>16</b>	<b>2,503</b>	<b>788</b>
<b>Variance:</b>			20,484	905	28	389,632	359	1,422	335,139	2,993	150	412,747	50,483
<b>Standard Error:</b>			143	30	5	624	19	38	579	55	12	642	225
<b>CV (%):</b>			12	36	72	13	25	18	39	18	75	26	28
<b>95% CI:</b>			941 - 1,502	24 - 142	0 - 18	3,605 - 6,052	39 - 114	137 - 285	360 - 2,629	197 - 412	0 - 40	1,244 - 3,763	348 - 1,229

**Table 1.11** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the summer Chinook salmon MSF in Marine Area 5. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
27	1	7.11	3	1	2	1	7
28	3	22.04	9	1	9	4	23
29	5	179.11	9	3	20	2	34
30	4	29.89	7	5	11	7	30
31	4	33.88	4	2	16	3	25
32	4	25.45	0	4	8	1	13
33	7	42.35	13	15	32	8	68
<b>Total</b>	<b>28</b>	<b>339.84</b>	<b>45</b>	<b>31</b>	<b>98</b>	<b>26</b>	<b>200</b>
<b>Size/mark-status composition:</b>			0.225	0.155	0.490	0.130	
<b>Variance:</b>			(0.0009)	(0.0007)	(0.0013)	(0.0006)	
<b>Legal size mark rate:</b>			0.59				
<b>Overall mark rate:</b>			0.72				



**Figure 1.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the summer Chinook salmon MSF in Marine Area 5. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 1.12** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the summer Chinook MSF in Marine Area 5. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Bernie Gobin Hatch	2021	1	4.4	14.83	4.4	0.4	0.15	0.39
George Adams Hatchery	2021	2	8.8	29.65	8.8	0.9	0.302	0.78
George Adams Hatchery	2022	4	17.5	59.3	17.8	1.8	0.614	1.57
George Adams Hatchery	2023	1	0	0	4.4	4.4	14.826	3.85
Grovers Cr Hatchery	2020	1	4.4	14.83	4.1	0.4	0.127	0.36
Grovers Cr Hatchery	2022	2	8.8	29.65	8.3	0.8	0.266	0.73
Priest Rapids Hatchery	2022	1	4.4	14.83	4.6	0.5	0.162	0.4
Soos Creek Hatchery	2021	4	17.5	59.3	18.9	1.9	0.689	1.66
Soos Creek Hatchery	2022	1	4.4	14.83	4.4	0.4	0.151	0.39
Spring Cr Nfh	2021	1	4.4	14.83	4.4	0.4	0.15	0.39
Spring Cr Nfh	2022	3	13.1	44.48	13.2	1.3	0.448	1.16
Wallace R Hatchery	2022	1	4.4	14.83	4.5	0.4	0.153	0.39
<b>Total</b>		<b>22</b>	<b>92</b>	<b>311.35</b>	<b>97.8</b>	<b>13.7</b>	<b>18.036</b>	<b>12.05</b>

**Table 1.13** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 summer Chinook MSF in Marine Area 5. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (13%)	R-Chilko R	H-Inch Creek H	4 (2.5%)	0
		R-Chilliwack R	H-Chilliwack River H	12 (7.5%)	0
		R-Harrison R	H-Chehalis River H	5 (3.1%)	0
	Western Vancouver Island (0.6%)	R-Robertson Cr	H-Robertson Creek H	1 (0.6%)	0
	Georgia Strait (3.7%)	R-Cheakamus R	H-Tenderfoot Creek H	1 (0.6%)	0
		R-Sandy Cv	H-Sandy Cove Seapen	4 (2.5%)	0
R-Capilano R		H-Capilano River H	1 (0.6%)	0	
WA	Northern Washington (3.7%)	East Sound Bay (San)	Glenwood Springs	2 (1.2%)	0
		Whatcom Cr 01.0566	Whatcom Cr Hatchery	2 (1.2%)	0
		Skookum Cr 01.0273	Skookum Cr Hatchery	2 (1.2%)	0
		Tsoo-Yess R 20.0015	Makah Nfh On Tsoo-Yess R	1 (0.6%)	0
		Sol Duc R 20.0096	Solduc Hatchery	4 (2.5%)	0
	Strait Of Juan De Fuca (8.7%)	Elwha R 18.0272	Elwha Hatchery	8 (5%)	0
		Hoko R 19.0148	Hoko Falls Hatchery	6 (3.7%)	0
	Hood Canal (4.3%)	Purdy Cr 16.0005	George Adams Hatchery	7 (4.3%)	7
	Northern Puget Sound (7.5%)	Wallace R 07.0940	Wallace R Hatchery	4 (2.5%)	1
		Stillaguamish R -Sf	Brenner Hatchery	1 (0.6%)	0
		Tulalip Cr 07.0001	Bernie Gobin Hatch	7 (4.3%)	1
	Skagit River (3.1%)	Co Line Slu 03.1853A	Marblemount Hatchery	4 (2.5%)	0
		Cascade R 03.1411	Marblemount Hatchery	1 (0.6%)	0
	Mid Puget Sound (13%)	Wilkeson Cr 10.0432	Clarks Crk Hatchery	1 (0.6%)	0
		Point Defiance Net Pens	Point Defiance Net Pens	1 (0.6%)	0
		Grovers Cr Hatchery	Grovers Cr Hatchery	3 (1.9%)	3
		Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	3 (1.9%)	0
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	4 (2.5%)	0
		Clarks Crk Hatchery	Clarks Crk Hatchery	1 (0.6%)	0
		Voight Cr 10.0414	Voights Cr Hatchery	2 (1.2%)	0
		Big Soos Cr 09.0072	Soos Creek Hatchery	5 (3.1%)	5
		Issaquah Cr 08.0178	Issaquah Hatchery	1 (0.6%)	0
	Southern Puget Sound (9.9%)	Chambers Cr 12.0007	Garrison Hatchery	3 (1.9%)	0
Clear Cr 11.0013C		Clear Creek Hatchery	3 (1.9%)	0	
Deschutes R 13.0028		Tumwater Falls Hatchery	2 (1.2%)	0	
Minter Cr 15.0048		Minter Cr Hatchery	8 (5%)	0	
Willapa Bay (1.2%)	Naselle R 24.0543	Naselle Hatchery	2 (1.2%)	0	
Columbia River	Columbia River General Region (0.6%)	Columbia R - General	Wells Hatchery	1 (0.6%)	0
	Upper Columbia R (Above McNary Dam; Excludes Snake River) (1.9%)	Col R @ Priest Rapids	Priest Rapids Hatchery	1 (0.6%)	1
		Yakima @ Prosser Hat	Prosser Hatchery	1 (0.6%)	0

Columbia River	Upper Columbia R (Above McNary Dam; excludes Snake River) (1.9%)	Wenatchee R 45.0030	Na	1 (0.6%)	0
	Central Columbia River (Bonneville Dam to McNary Dam) (3.1%)	Spring Cr 29.0159	Spring Cr Nfh	4 (2.5%)	4
		Klickitat R 30.0002	Klickitat Hatchery	1 (0.6%)	0
	Lower Columbia River (Mouth To Bonneville Dam) (15.5%)	Santiam R & N Fk-1	Minto Ponds (N Santiam R)	1 (0.6%)	0
		Big Cr (Lwr Col R)	Big Cr Hatchery	12 (7.5%)	0
		Tanner Cr (Bnville)	Bonneville Hatchery	7 (4.3%)	0
		Clackamas R	Clackamas Hatchery	1 (0.6%)	0
		Cowlitz R 26.0002	Cowlitz Salmon Hatchery	3 (1.9%)	0
	Lewis R -Nf 27.0168	Na	1 (0.6%)	0	
	Snake River (6.2%)	Lyons Ferry Rel.Site	Lyons Ferry Hatchery	1 (0.6%)	0
		Magrudor Corridor	Npt Hatchery	1 (0.6%)	0
		Captain Johns Pd	Lyons Ferry Hatchery	2 (1.2%)	0
		Snake R @Pittsburg L	Lyons Ferry Hatchery	2 (1.2%)	0
		Big Canyon Accl Pond	Lyons Ferry Hatchery	2 (1.2%)	0
		Snake R-1 (Hells Can	Irrigon Hatchery	2 (1.2%)	0
CA	San Joaquin River (0.6%)	San Joaq Shrm Isl Net Pen	Mok R Fish Ins	1 (0.6%)	0
Total				161	22

**Table 1.14** Season-total estimates of Chinook salmon encounters by size/mark-status and total estimates of angler effort, summarized for all seasons to date of the Marine Area 5 summer Chinook MSF. Values may not add up exactly due to rounding error.

Season Dates	Effort (Angler-trips)	Retained Chinook				Released Chinook				Total Encounters
		LM	LU	SM	SU	LM	LU	SM	SU	
Jul 5 - Aug 3, 2003	19,398	2,251	53	225	0	336	3,435	1,656	5,174	13,131
Jul 1 - Aug 10, 2004	25,174	2,706	0	194	0	404	4,017	1,167	2,462	10,950
Jul 1 - Aug 10, 2005	30,115	1,520	23	100	26	227	1,418	1,210	1,459	5,984
Jul 1 - Aug 14, 18-21, 2006	23,177	3,105	10	196	7	464	3,125	1,010	2,212	10,129
Jul 1 - Aug 9, 2007	18,830	2,969	23	280	94	444	2,509	1,371	1,118	8,808
Jul 1 - Aug 10, 2008	13,004	2,773	0	45	0	414	1,869	65	330	5,496
Jul 1 - Aug 6, 2009	23,662	4,843	78	1,115	362	724	6,210	9,823	14,309	37,463
Jul 1 - Aug 15, 2010	16,806	5,461	14	242	0	816	4,961	3,163	4,140	18,796
Jul 1 - Aug 15, 2011	24,848	4,259	70	276	22	636	9,275	1,593	5,319	21,450
Jul 1 - Aug 15, 2012	21,074	5,437	9	242	9	812	4,617	3,105	4,765	18,996
Jul 1 - Aug 15, 2013	25,725	7,473	77	933	81	1,117	7,188	8,173	8,702	33,743
Jul 1 - Aug 15, 2014	23,310	4,684	41	401	8	700	3,005	3,707	7,359	19,905
Jul 1 - Aug 15, 2015	21,313	4,434	35	316	17	663	7,562	14,302	8,445	35,774
Jul 1 - Aug 15, 2016	14,684	3,113	2	230	0	465	1,248	14,903	6,122	26,083
Jul 1 - Aug 15, 2017	17,144	2,202	2	107	4	329	1,601	8,542	4,341	17,129
Jul 1 - Aug 15, 2018	13,967	3,630	0	208	0	542	2,562	9,437	4,264	20,645
Jul 1 - Aug 15, 2019	16,768	4,401	7	157	1	658	3,124	4,299	3,251	15,897
Jul 1 - Jul 30, 2020	15,490	3,449	31	169	0	515	3,350	4,567	3,686	15,767
Jul 1, - Jul 18, 2021	10,157	3,414	45	458	30	510	2,219	2,696	2,952	12,324
Jul 1 - Aug 15, 2022	13,084	3,647	9	289	0	545	3,921	26,174	6,026	40,611
Jul 1 - Aug 15, 2023	13,971	3,377	38	113	13	504	3,027	10,918	2,643	20,633
Jul 1 - Jul 31, 2024	10,793	2,720	8	136	0	406	3,275	10,494	2,658	19,698
Jul 1 - Aug 12, 2025	13,622	3,846	33	206	4	575	3,012	9,421	2,550	19,647

## **2) Marine Area 6 Summer Mark-Selective Chinook Fishery**

The Washington Department of Fish and Wildlife (WDFW) implemented a Chinook MSF in the sub-area of Marine Area 6 west of Ediz Hook for July 1 through August 15, 2025. The fishery closed early, on August 10, when the legal-size encounters met pre-season FRAM predicted values. WDFW's Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, using a Full Murthy aerial design, in this sub area of Marine Area 6 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included intensive dockside creel sampling, aerial surveys, test fishing and collection of voluntary salmon trip reports (STRs) from the angling public when possible. The fishery control for this Area was based on the preseason prediction of total legal-size Chinook salmon encountered. **Table 2.1** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). The fishery control for this area was based on the preseason Fishery Regulation Assessment Model (FRAM) prediction of 6,550 total legal-size Chinook salmon encounters (**Table 2.4**). In this section we present results from our monitoring activities during the Marine Area 6 summer Chinook MSF.

**Table 2.1** Sampling/estimation details on target parameters associated with the overall Marine Area 6 summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	One week.	Creel estimates were produced for two-week estimation periods and stratified into “weekday” (Mon.-Thurs.) and “weekend” (Fri.-Sun.) day-type strata within weeks. For the weekday stratum we sampled $n=2$ days out of $N=4$ available weekdays per one-week period. For the weekend stratum we sampled $n=3$ days out of $N=3$ available weekend days per week.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 2.8</b> ).
Aerial Surveys	Fraction of Marine Area 6 effort (boats) captured in the four-site sample frame via creel surveys (Sample Fraction, $f_{ij}$ ).	Total boat counts at assumed peak effort time interval (instantaneous count); spatial distribution of fishing boats in the area.	Boats	Season	The sample fraction was calculated for individual aerial survey dates (see <b>Table 2.11</b> ). A total of 8 aerial surveys (3 weekday and 5 weekend days) were conducted during the 43-day fishery. The season-wide sample fraction was calculated as the average sample fraction over the 8 individual surveys.
Test Fishing	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Chinook length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook encounters	Fish encounter	Season	Test fishing collected data when the fishery was open to Chinook retention. These data were used for estimating encounters and mortalities during this fishery. LM = 29.0%; LU = 13.7%; SM = 45.0%; SU = 12.2% ( <b>Table 2.12</b> ). Test fishing CV = 0.14.
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Encounter data for non-Chinook species (e.g., Coho) that the angler may record on the STR form	Fish encounter	Season	6 STRs were received during this fishery ( <b>Table 2.9</b> ). Because TF data met sample size requirements of $CV < 0.20$ , STRs were not needed to produce encounter and mortality estimates.
Overall Fishery Impacts Estimation	Total Chinook encounters and mortalities, by size/mark-status group	Ratios of encounters and mortalities per kept Chinook	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

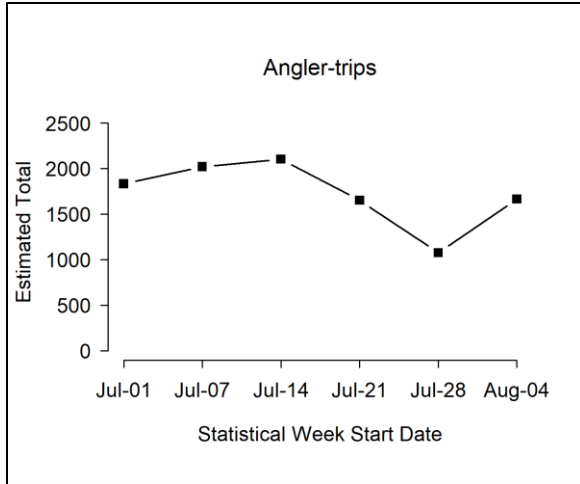
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 2.2** Estimates of total fishing effort and total salmon catch (harvest and releases) during the summer Chinook MSF in Marine Area 6. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

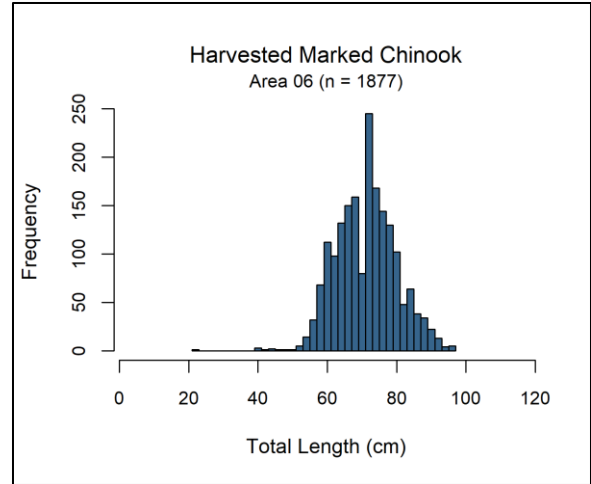
Month	Stat Week	Start Date	End Date	Est. Effort		Est. Retained Chinook		Est. Released Chinook		Total Est. Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
<b>July</b>	27	1-Jul	6-Jul	800	1,832	897	4	1,674	897	3,472
	28	7-Jul	13-Jul	947	2,021	1,023	3	1,907	1,024	3,957
	29	14-Jul	20-Jul	1,035	2,102	783	6	1,461	780	3,031
	30	21-Jul	27-Jul	777	1,651	641	4	1,195	639	2,479
	31	28-Jul	3-Aug	497	1,076	257	3	480	255	996
<b>August</b>	32	4-Aug	10-Aug	808	1,664	473	0	883	475	1,831
<b>Season Total:</b>				<b>4,864</b>	<b>10,346</b>	<b>4,074</b>	<b>21</b>	<b>7,599</b>	<b>4,071</b>	<b>15,765</b>
<b>Variance:</b>				92,480	359,137	60,530	33	2,509,498	610,819	5,588,581
<b>SE:</b>				304	599	246	6	1,584	782	2,364
<b>CV (%):</b>				6	6	6	27	21	19	15
<b>95% CI:</b>				4,268 - 5,460	9,172 - 11,521	3,592 - 4,556	10 - 32	4,494 - 10,704	2,539 - 5,603	11,132 - 20,399

**Table 2.3** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the summer Chinook MSF in Marine Area 6.

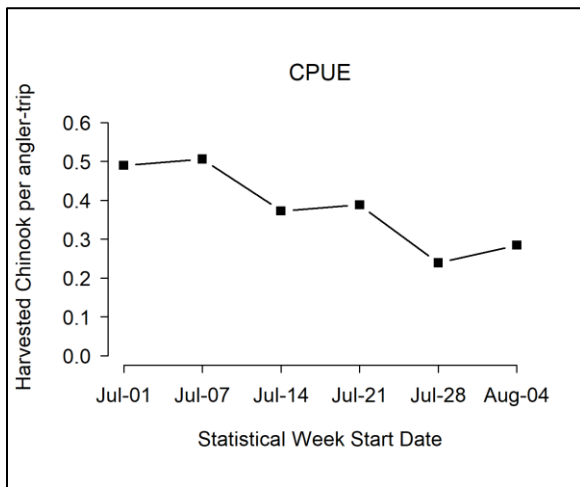
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	1,833	44	1,877
Unmarked	3	4	7
<b>Total</b>	<b>1,836</b>	<b>48</b>	<b>1,884</b>



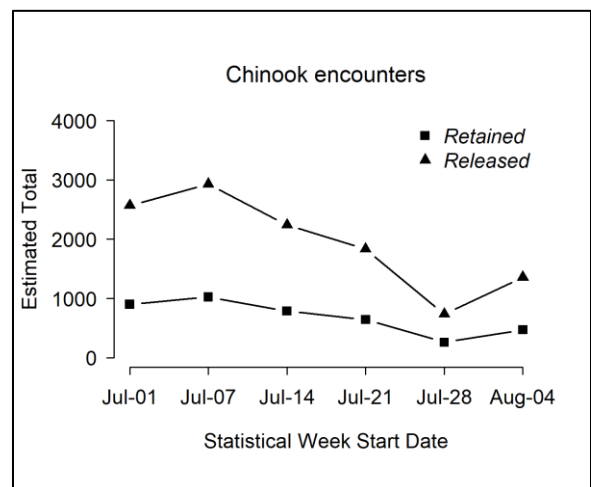
**Figure 2.1** Temporal patterns in fishing effort during the summer Chinook MSF in Marine Area 6.



**Figure 2.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the summer Chinook MSF in Marine Area 6. Note: displayed values are observations where lengths are taken.



**Figure 2.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the summer Chinook MSF in Marine Area 6.



**Figure 2.4** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 6. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

**Table 2.4** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 6. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

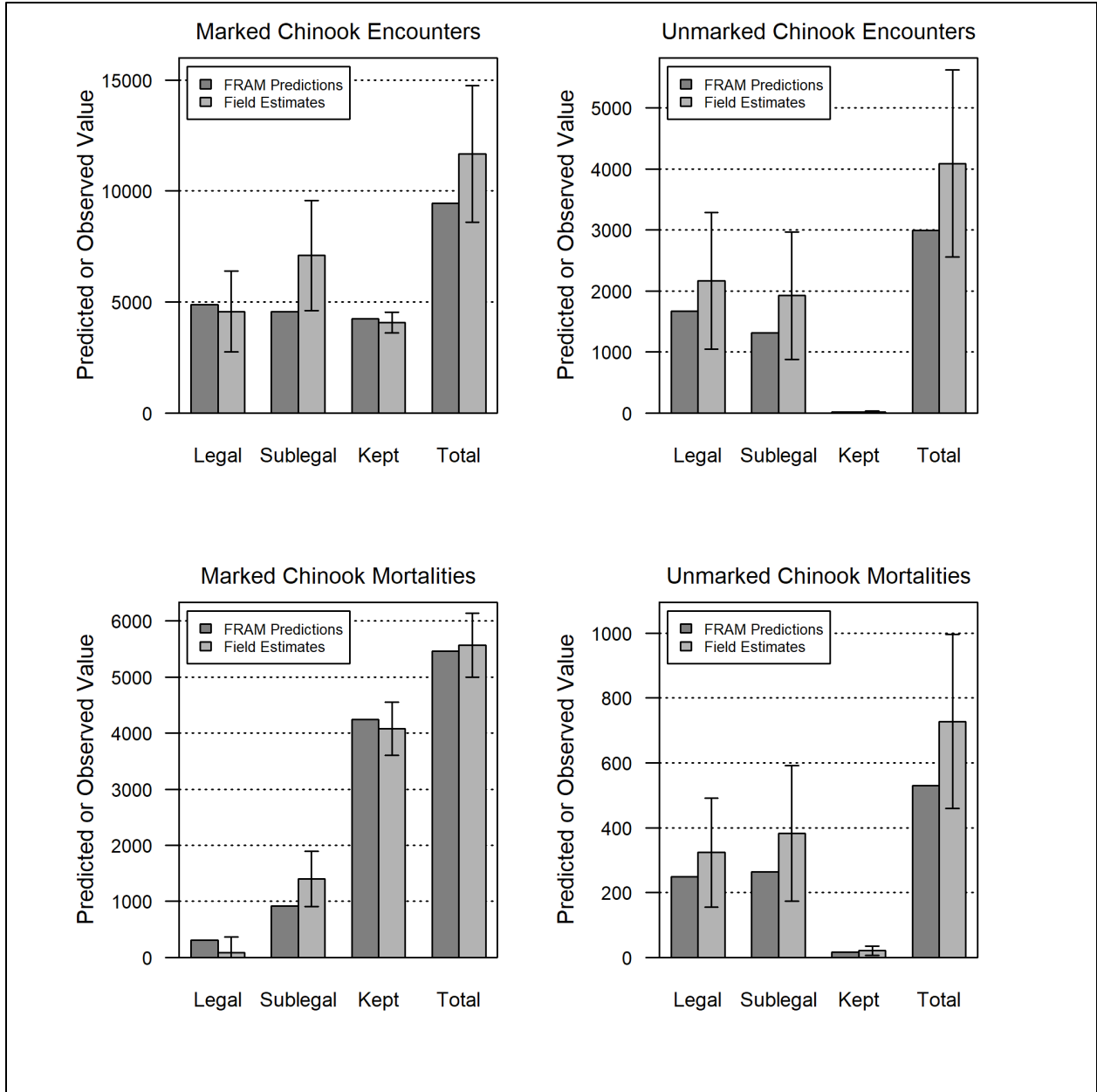
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	2,993	1,675	1,318	17
	AD	9,449	4,875	4,574	4,241
	Total	12,442	6,550	5,892	4,258
	% Marked	76	74	78	100
Estimated (Creel) Encounters	UM	4,092	2,166	1,926	21
	AD	11,673	4,573	7,100	4,074
	Total	15,765	6,739	9,026	4,095
	% Marked	74	68	79	99

**Table 2.5** Summary of season-wide fishery impact estimates for the summer Chinook MSF in Marine Area 6. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	4,573	3,979	595	89	4,068	78,471	280	3,519 - 4,617	7
Legal UM	2,166	9	2,157	324	333	7,381	86	164 - 501	26
Sublegal AD	7,100	96	7,005	1,401	1,496	64,094	253	1,000 - 1,993	17
Sublegal UM	1,926	12	1,914	383	395	11,378	107	186 - 604	27
<b>Total</b>	<b>15,765</b>	<b>4,095</b>	<b>11,670</b>	<b>2,196</b>	<b>6,292</b>	<b>161,324</b>	<b>402</b>	<b>5,504 - 7,079</b>	<b>6</b>

**Table 2.6** Comparison of modeled and estimated total Chinook salmon mortalities for the summer Chinook MSF in Marine Area 6. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	530	5,463	5,993	727	5,564	6,292
Released Legal	249	307	556	324	89	413
Released Sublegal	264	915	1,179	383	1,401	1,784
Landed Only	17	4,241	4,258	21	4,074	4,095



**Figure 2.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the summer Chinook MSF in Marine Area 6. Error bars represent approximately 95% confidence intervals for field estimates.

**Table 2.7** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the summer Chinook MSF in Marine Area 6. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
July	27 - 31	1 Jul - 3 Aug	3,601	21	3,622	1,677	7	1,684	46.5%
August	32 - 32	4 Aug - 10 Aug	473	0	473	244	0	244	51.6%
<b>Season Total</b>			<b>4,074</b>	<b>21</b>	<b>4,095</b>	<b>1,921</b>	<b>7</b>	<b>1,928</b>	<b>47.1%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the summer Chinook MSF in Marine Area 6 (creel estimates and fish sampled as part of baseline sampling).

**Table 2.8** Dockside encounters (retained and released) by size-mark category during the summer Chinook salmon MSF in Marine Area 6. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	1,887	430	1,367	248
Bias-corrected size/mark composition	42.71%	10.94%	34.77%	11.59%
Variance	0.0001855	8.379E-05	0.0002281	3.814E-05

**Table 2.9** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 summer Chinook salmon MSF in Marine Area 6, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	6 1-trip STRs	11	5	11	11	38	0.58	0.69
<b>Size/mark-status composition:</b>		0.29	0.13	0.29	0.29			
<b>Variance:</b>		(0.0056)	(0.0031)	(0.0056)	(0.0056)			

**Table 2.10** Fishery-total estimates of retained and released salmon (other than Chinook) for the summer Chinook MSF in Marine Area 6. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

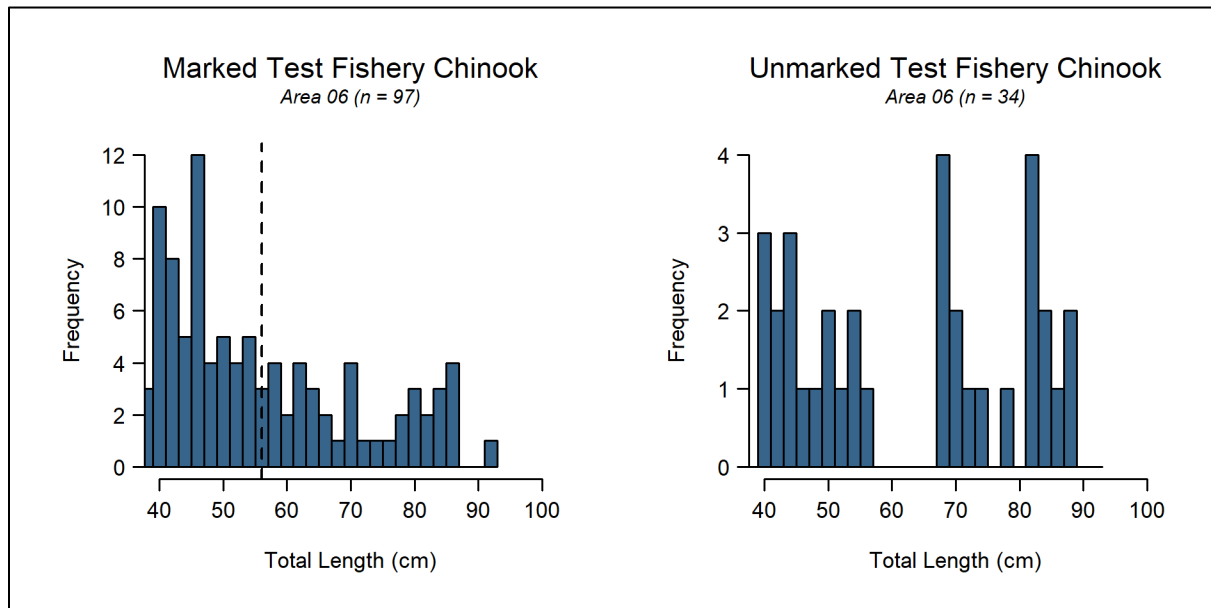
Stat Week	Start Date	End Date	Retained Salmon				Released Salmon					
			Coho AD	Coho UM	Coho UK	Pink	Coho AD	Coho UM	Coho UK	Chum	Pink	Unknown
27	1-Jul	6-Jul	47	4	0	1	28	21	4	0	21	150
28	7-Jul	13-Jul	41	4	0	10	9	40	10	0	78	9
29	14-Jul	20-Jul	16	0	0	66	22	36	3	4	99	18
30	21-Jul	27-Jul	25	0	0	299	3	61	1	0	127	16
31	28-Jul	3-Aug	18	0	0	433	6	42	6	0	251	92
32	4-Aug	10-Aug	60	0	6	1,005	11	35	8	0	563	42
<b>Season Total:</b>			<b>208</b>	<b>9</b>	<b>6</b>	<b>1,815</b>	<b>79</b>	<b>234</b>	<b>33</b>	<b>4</b>	<b>1,139</b>	<b>326</b>
<b>Variance:</b>			218	0	1	40,747	46	1,398	28	0	13,207	3,355
<b>Standard Error:</b>			15	1	1	202	7	37	5	1	115	58
<b>CV (%):</b>			7	8	16	11	9	16	16	12	10	18
<b>95% CI:</b>			179 - 237	8 - 10	4 - 8	1,419 - 2,210	65 - 92	161 - 307	22 - 43	3 - 5	914 - 1,364	213 - 440

**Table 2.11** Summary of aerial survey and dockside data used to estimate the fraction of effort captured in the three-site sample frame during the summer Chinook salmon MSF in Marine Area 6. See Methods Report (WDFW 2012a) for computational details and notation.

Survey Date	Stratum	Aerial Survey Details			Dockside Sampling Details			Sample Fraction, $f_{ij}$
		Start Time	End Time	Total Boats, $m_{ij}$	Sampled Boats	Active Boats, $X_{ij}$	Total Boats, $S_{yijk}$	
5-Jul	WE	9:24	9:39	64	69	39	113	0.609
7-Jul	WD	10:03	10:16	109	121	84	157	0.771
11-Jul	WE	10:18	10:48	107	144	90	171	0.841
19-Jul	WE	10:39	10:57	63	96	53	114	0.841
29-Jul	WD	8:43	8:59	92	72	46	144	0.500
1-Aug	WE	11:36	11:53	26	42	16	68	0.615
5-Aug	WD	10:30	10:44	81	86	52	134	0.642
10-Aug	WE	9:08	9:23	157	150	103	229	0.656
<b>Season Totals:</b>				<b>699</b>	<b>780</b>	<b>483</b>	<b>1130</b>	<b>0.691</b>
<b>Mean:</b>				87	98	60	141	0.684
<b>St Dev:</b>				39	38	29	47	0.122
<b>CV (%):</b>				44.7%	39.1%	48.5%	33.5%	17.8%

**Table 2.12** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the summer Chinook salmon MSF in Marine Area 6. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
27	3	17.63	3	1	6	3	13
28	5	36.89	10	3	30	8	51
29	7	49.16	19	5	13	2	39
30	2	13.74	3	2	3	1	9
31	3	22.07	0	1	1	0	2
32	4	29.95	3	6	6	2	17
<b>Total</b>	<b>24</b>	<b>169.44</b>	<b>38</b>	<b>18</b>	<b>59</b>	<b>16</b>	<b>131</b>
<b>Size/mark-status composition:</b>			0.29	0.14	0.45	0.12	
<b>Variance:</b>			(0.0016)	(0.0009)	(0.0019)	(0.0008)	
<b>Legal size mark rate:</b>			0.68				
<b>Overall mark rate:</b>			0.74				



**Figure 2.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the summer Chinook salmon MSF in Marine Area 6. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 2.13** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the summer Chinook MSF in Marine Area 6. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	Var (Est.AD)	UM DIT Enc	Est.UM	Var (Est.UM)	SE (Est.UM)
Bernie Gobin Hatch	2021	1	2.2	2.55	2.2	0.2	0.03	0.16
Clear Creek Hatchery	2021	5	10.9	12.75	11.0	1.1	0.13	0.81
Clear Creek Hatchery	2022	2	4.3	5.10	2.2	0.2	0.01	0.16
George Adams Hatchery	2020	1	2.2	2.55	2.2	0.2	0.03	0.16
George Adams Hatchery	2021	5	10.9	12.75	11.0	1.1	0.13	0.81
George Adams Hatchery	2022	6	13.0	15.31	13.3	1.3	0.16	0.97
Grovers Cr Hatchery	2020	1	2.2	2.55	2.0	0.2	0.02	0.15
Grovers Cr Hatchery	2021	11	23.9	28.06	23.9	2.4	0.28	1.76
Grovers Cr Hatchery	2022	6	10.9	12.75	12.5	3.2	2.67	2.35
Marblemount Hatchery	2021	2	4.3	5.10	4.4	0.4	0.05	0.32
Samish Hatchery	2021	5	10.9	12.75	21.1	2.1	0.48	1.55
Samish Hatchery	2022	2	4.3	5.10	4.4	0.4	0.05	0.32
Samish Hatchery	2023	1	2.2	2.55	2.2	0.2	0.03	0.16
Soos Creek Hatchery	2021	9	19.6	22.96	21.1	2.1	0.27	1.55
Spring Cr Nfh	2022	2	4.3	5.10	4.4	0.4	0.05	0.32
Wallace R Hatchery	2021	2	4.3	5.10	4.4	0.4	0.05	0.32
<b>Total</b>		<b>61</b>	<b>130.4</b>	<b>153.03</b>	<b>142.3</b>	<b>15.9</b>	<b>4.43</b>	<b>11.87</b>

**Table 2.14** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 summer Chinook MSF in Marine Area 6. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (3.1%)	R-Harrison R	H-Chehalis River H	2 (0.7%)	0
		R-L Campbell R	H-Little Campbell River H	1 (0.3%)	0
		R-Chilliwack R	H-Chilliwack River H	6 (2.1%)	0
	Western Vancouver Island (1%)	R-Alberni In	H-Alberni Inlet Seapen	2 (0.7%)	0
		R-Robertson Cr	H-Robertson Creek H	1 (0.3%)	0
	Georgia Strait (3.1%)	R-Cowichan R	H-Cowichan River H	7 (2.4%)	0
		R-Sandy Cv	H-Sandy Cove Seapen	1 (0.3%)	0
R-Capilano R		H-Capilano River H	1 (0.3%)	0	
WA	Northern Washington (4.8%)	East Sound Bay (San)	Glenwood Springs	2 (0.7%)	0
		Friday Cr 03.0017	Samish Hatchery	8 (2.7%)	8
		Kendall Cr 01.0406	Kendall Cr Hatchery	1 (0.3%)	0
		Whatcom Cr 01.0566	Whatcom Cr Hatchery	3 (1%)	0
	Northern Washington Coast (0.7%)	Sol Duc R 20.0096	Solduc Hatchery	1 (0.3%)	0
		Tsoo-Yess R 20.0015	Makah Nfh On Tsoo-Yess R	1 (0.3%)	0
	Strait Of Juan De Fuca (16.8%)	Hoko R 19.0148	Hoko Falls Hatchery	2 (0.7%)	0
		Elwha R 18.0272	Elwha Hatchery	45 (15.5%)	0
		Lower Elwha Hatch - House	Lower Elwha Hatch - House	2 (0.7%)	0
	Hood Canal (9.3%)	Purdy Cr 16.0005	George Adams Hatchery	12 (4.1%)	12
		Finch Cr 16.0222	Hoodspport Hatchery	15 (5.2%)	0
	Northern Puget Sound (3.8%)	Stillaguamish R -Sf	Brenner Hatchery	1 (0.3%)	0
		Tulalip Cr 07.0001	Bernie Gobin Hatch	2 (0.7%)	1
		Skykomish R 07.0012	Reiter Ponds	1 (0.3%)	0
		Wallace R 07.0940	Wallace R Hatchery	7 (2.4%)	2
	Skagit River (2.7%)	Cascade R 03.1411	Marblemount Hatchery	5 (1.7%)	2
		Co Line Slu 03.1853A	Marblemount Hatchery	3 (1%)	0
	Mid Puget Sound (25.8%)	Wilkeson Cr 10.0432	Clarks Crk Hatchery	1 (0.3%)	0
		Big Soos Cr 09.0072	Soos Creek Hatchery	10 (3.4%)	9
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	13 (4.5%)	0
		Point Defiance Net Pens	Point Defiance Net Pens	2 (0.7%)	0
		Issaquah Cr 08.0178	Issaquah Hatchery	3 (1%)	0
		Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	15 (5.2%)	0
Grovers Cr Hatchery		Grovers Cr Hatchery	18 (6.2%)	18	
Clarks Crk Hatchery		Clarks Crk Hatchery	3 (1%)	0	
Voight Cr 10.0414		Voights Cr Hatchery	7 (2.4%)	0	
Point Defiance Net Pens	Clarks Crk Hatchery	3 (1%)	0		
Southern Puget Sound (23.7%)	Mcallister Springs Hatch	Kalama Cr Hatchery	2 (0.7%)	0	
	Minter Cr 15.0048	Minter Cr Hatchery	26 (8.9%)	0	

WA	Southern Puget Sound (23.7%)	Clear Cr 11.0013C	Clear Creek Hatchery	15 (5.2%)	7
		Deschutes R 13.0028	Tumwater Falls Hatchery	12 (4.1%)	0
		Chambers Cr 12.0007	Garrison Hatchery	14 (4.8%)	0
	Willapa Bay (0.3%)	Fork Cr 24.0356	Forks Creek Hatchery	1 (0.3%)	0
Columbia River	Central Columbia River (Bonneville Dam to McNary Dam) (0.7%)	Spring Cr 29.0159	Spring Cr Nfh	2 (0.7%)	2
	Lower Columbia River (Mouth to Bonneville Dam) (3.4%)	Cowlitz R 26.0002	Cowlitz Salmon Hatchery	1 (0.3%)	0
		Big Cr (Lwr Col R)	Big Cr Hatchery	6 (2.1%)	0
		Tanner Cr (Bnville)	Bonneville Hatchery	3 (1%)	0
	Snake River (0.3%)	Luke's Gulch A F	Npt Hatchery	1 (0.3%)	0
OR	Northern Oregon Coast (0.3%)	Salmon R	Salmon R Hatchery	1 (0.3%)	0
<b>Total</b>				<b>291</b>	<b>61</b>

**Table 2.15** Season-total estimates of Chinook salmon encounters by size/mark-status and total estimates of angler effort, summarized for all seasons to date of the Marine Area 6 summer Chinook MSF. Values may not add up exactly due to rounding error.

Area	Season Dates	Effort (Angler-trips)	Retained Chinook				Released Chinook				Total Encounters
			LM	LU	SM	SU	LM	LU	SM	SU	
6	Jul 1 - Aug 3, 2021	8,863	4,968	11	90	28	742	1,920	3,888	1,278	12,926
6	Jul 1 - Jul 30, 2022	9,066	4,654	2	136	0	695	8,915	26,018	8,024	48,444
6	Jul 1 - Aug 15, 2023	11,636	5,255	15	154	4.3	785	3,571	6,642	3,393	19,821
6	Jul 1 - Aug 15, 2024	12,261	6,108	19	140	0	913	2,321	4,373	501	14,375
6	Jul 1 - Aug 10, 2025	10,346	3,979	9	96	12	595	2,157	7,005	1,914	15,765

### 3) Marine Area 7 Summer Mark-Selective Chinook Fishery

The Washington Department of Fish and Wildlife (WDFW) implemented a summer Chinook MSF in Marine Area 7 as a series of short openers on July 17-19, July 25, and August 1, 2025. WDFW’s Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, using a Full Murthy aerial design in Marine Area 7 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included intensive dockside creel sampling, aerial surveys, test fishing and collection of voluntary salmon trip reports (STRs) from the angling public when possible. The fisheries controls used for this fishery were total predicted catch quota (2,181), total unmarked encounters (3,3868) and total sublegal encounters (1,967) (**Table 3.5**). **Table 3.2** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section we present results from our monitoring activities during the Marine Area 7 summer Chinook MSF.

**Table 3.1** Fishery dates and fishery retention status of salmon in the 2025 summer Chinook salmon MSF in Marine Area 7.

Start Date	End Date	Fishery Status	Days
17-Jul	19-Jul	Open	3
20-Jul	24-Jul	Closed	5
25-Jul	25-Jul	Open	1
26-Jul	31-Jul	Closed	6
1-Aug	1-Aug	Open	1
Total days open			5

**Table 3.2** Sampling/estimation details on target parameters associated with the overall Marine Area 7 Chinook MSF monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	One week.	Within days, estimates were produced by day-type strata (weekday/weekend). Each week we sampled every Friday, Saturday, and Sunday, and we randomly selected $n=2$ out of $N=4$ weekdays (Monday-Thursday) for sampling.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 3.9</b> ).
Aerial Surveys	Fraction of Marine Area 7 effort (boats) captured in the four-site sample frame via creel surveys (Sample Fraction, $f_{ij}$ ).	Total boat counts at assumed peak effort time interval (instantaneous count); spatial distribution of fishing boats in the area.	Boats	Season	The sample fraction was calculated for individual aerial survey dates (see <b>Table 3.12</b> ). A total of 5 aerial surveys (1 weekday and 4 weekend) were conducted during the 5-day fishery. The season-wide sample fraction was calculated as the average sample fraction over the 5 individual surveys.
Test Fishing	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Chinook length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook encounters	Fish encounter	Season	Test fishing data collected when the fishery was open to Chinook retention ( <b>Table 3.12</b> ) were used for the estimate of encounters and mortalities during this fishery. LM = 43.9%; LU = 14.6%; SM = 19.5%; SU = 22.0%. Test fishing CV = 0.18.
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Encounter data for non-Chinook species (e.g., Coho) that the angler may record on the STR form	Fish encounter	Season	Ten STRs were returned during this fishery. Because TF data met sample size requirements of $CV < 0.20$ , STRs were not needed to produce encounter and mortality estimates ( <b>Table 3.10</b> ).
Overall Fishery Impacts Estimation	Total Chinook encounters and mortalities, by size/mark-status group	Ratios of encounters and mortalities per kept Chinook	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered.

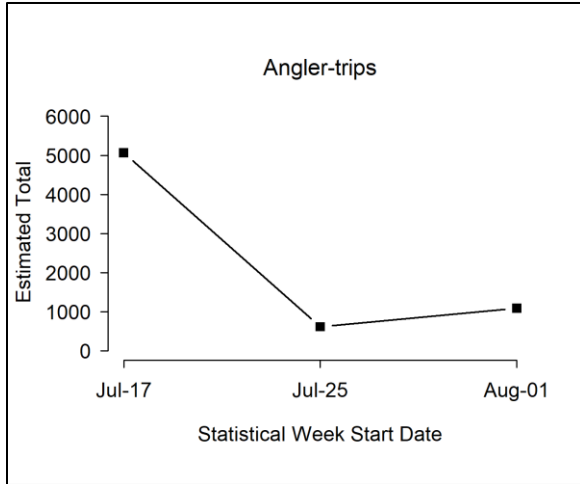
<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 3.3** Estimates of total fishing effort and total salmon catch (harvest and releases) during the summer Chinook MSF in Marine Area 7. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

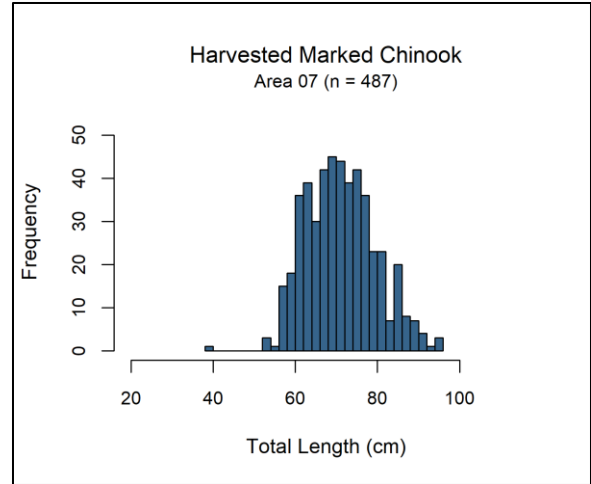
Month	Stat Week	Start Date	End Date	Est. Effort		Est. Retained Chinook		Est. Released Chinook		Total Est. Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
<b>July</b>	29	17-Jul	19-Jul	1,950	5,065	1,438	14	925	1,349	3,726
	30	25-Jul	25-Jul	259	613	138	0	89	131	358
<b>Aug</b>	31	1-Aug	1-Aug	429	1,085	181	4	116	168	469
<b>Season Total:</b>				<b>2,638</b>	<b>6,763</b>	<b>1,757</b>	<b>18</b>	<b>1,130</b>	<b>1,648</b>	<b>4,553</b>
<b>Variance:</b>				30,810	203,685	15,577	3	393,707	201,220	767,124
<b>SE:</b>				176	451	125	2	627	449	876
<b>CV (%):</b>				7	7	7	9	56	27	19
<b>95% CI:</b>				2,294 - 2,982	5,879 - 7,648	1,512 - 2,002	15 - 21	0 - 2,360	768 - 2,527	2,836 - 6,269

**Table 3.4** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the summer Chinook MSF in Marine Area 7.

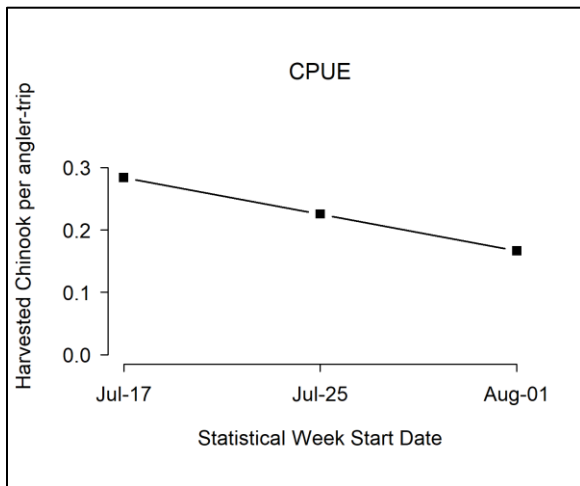
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	482	5	487
Unmarked	4	0	4
<b>Total</b>	<b>486</b>	<b>5</b>	<b>491</b>



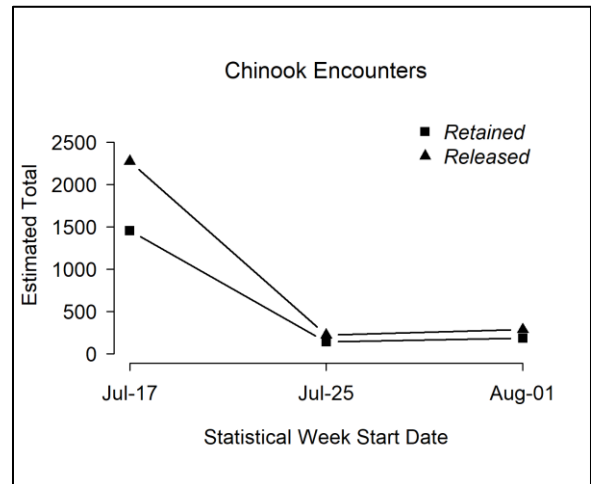
**Figure 3.1** Temporal patterns in fishing effort during the summer Chinook MSF in Marine Area 7.



**Figure 3.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the summer Chinook MSF in Marine Area 7. Note: displayed values are observations where lengths are taken.



**Figure 3.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the summer Chinook MSF in Marine Area 7.



**Figure 3.4** Temporal patterns in Chinook salmon encounters (retained and released) during the summer Chinook MSF in Marine Area 7.

**Table 3.5** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 7. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

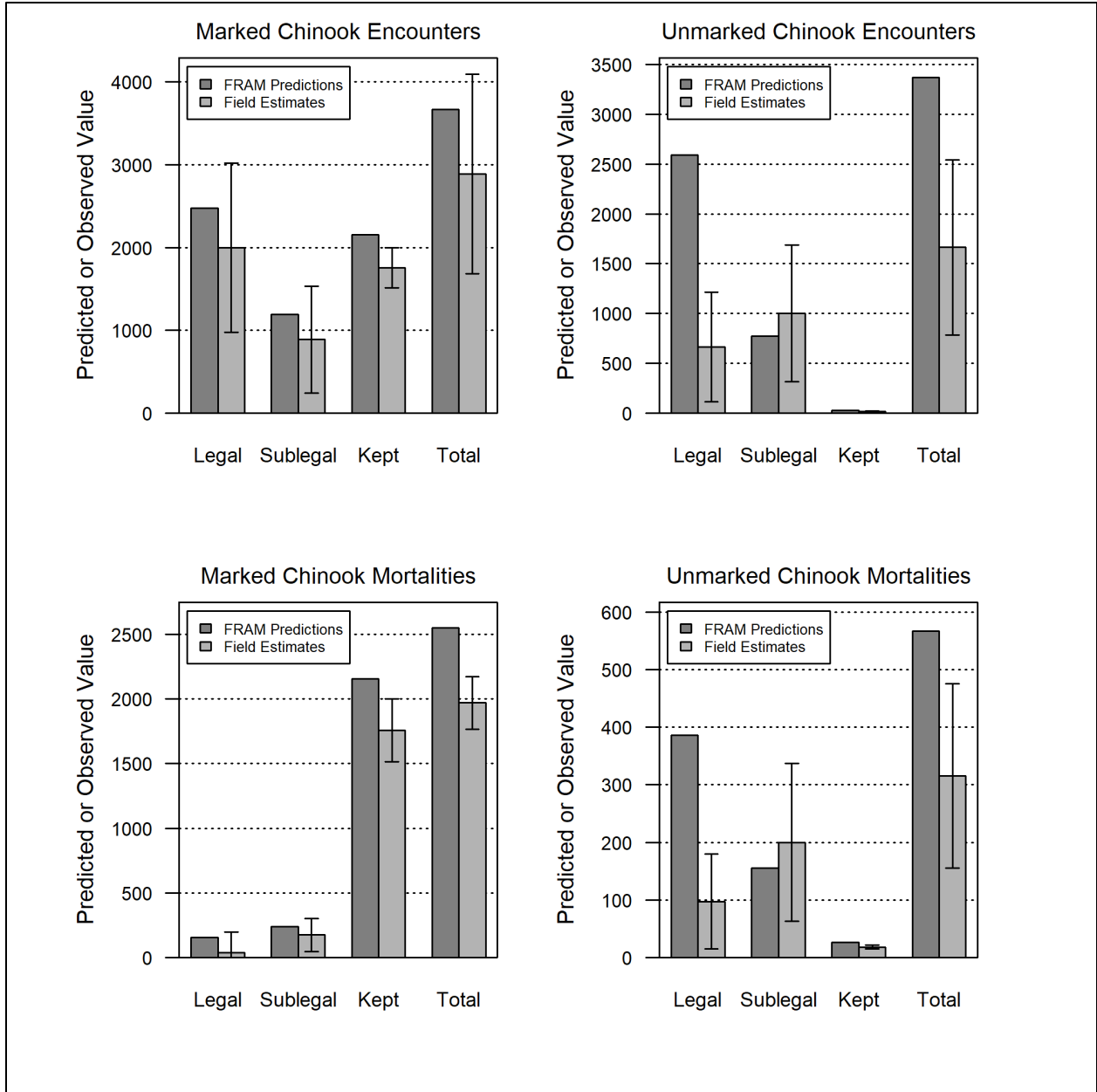
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	3,368	2,594	774	26
	AD	3,670	2,477	1,193	2,155
	Total	7,038	5,071	1,967	2,181
	% Marked	52	49	61	99
Estimated (Creel) Encounters	UM	1,666	666	999	18
	AD	2,887	1,999	888	1,757
	Total	4,553	2,665	1,888	1,775
	% Marked	63	75	47	99

**Table 3.6** Summary of season-wide fishery impact estimates for the summer Chinook MSF in Marine Area 7. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	1,999	1,739	260	39	1,778	21,759	148	1,489 - 2,067	8%
Legal UM	666	18	648	97	115	1,775	42	33 - 198	37%
Sublegal AD	888	18	870	174	192	4,371	66	63 - 322	34%
Sublegal UM	999	0	999	200	200	4,898	70	63 - 337	35%
<b>Total</b>	<b>4,553</b>	<b>1,775</b>	<b>2,778</b>	<b>510</b>	<b>2,285</b>	<b>32,804</b>	<b>181</b>	<b>1,930 - 2,640</b>	<b>8%</b>

**Table 3.7** Comparison of modeled and estimated total Chinook salmon mortalities for the summer Chinook MSF in Marine Area 7. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	567	2,550	3,117	315	1,970	2,285
Released Legal	386	156	542	97	39	136
Released Sublegal	155	239	394	200	174	374
Landed Only	26	2,155	2,181	18	1,757	1,775



**Figure 3.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the summer Chinook MSF in Marine Area 7. Error bars represent approximately 95% confidence intervals for field estimates.

**Table 3.8** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the summer Chinook MSF in Marine Area 7. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
July	29 - 30	17 Jul - 25 Jul	1,576	15	1,591	439	4	443	27.90%
August	31 - 31	1-Aug	181	4	184	51	1	52	28.20%
<b>Season Total</b>			<b>1,757</b>	<b>18</b>	<b>1,775</b>	<b>490</b>	<b>5</b>	<b>495</b>	<b>27.90%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the summer Chinook MSF in Marine Area 7 (creel estimates and fish sampled as part of baseline sampling).

**Table 3.9** Dockside encounters (retained and released) by size-mark category during the summer Chinook salmon MSF in Marine Area 7. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	502	173	81	89
Bias-corrected size/mark composition	52.87%	20.47%	9.59%	17.07%
Variance	0.0006862	0.0003783	0.000253	0.0002501

**Table 3.10** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 summer Chinook salmon MSF in Marine Area 7, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	10 1-trip STRs	17	4	1	1	23	0.78	0.81
<b>Size/mark-status composition:</b>		0.74	0.17	0.04	0.04			
<b>Variance:</b>		(0.0088)	(0.0065)	(0.0019)	(0.0019)			

**Table 3.11** Fishery-total estimates of retained and released salmon (other than Chinook) for the summer Chinook MSF in Marine Area 7. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

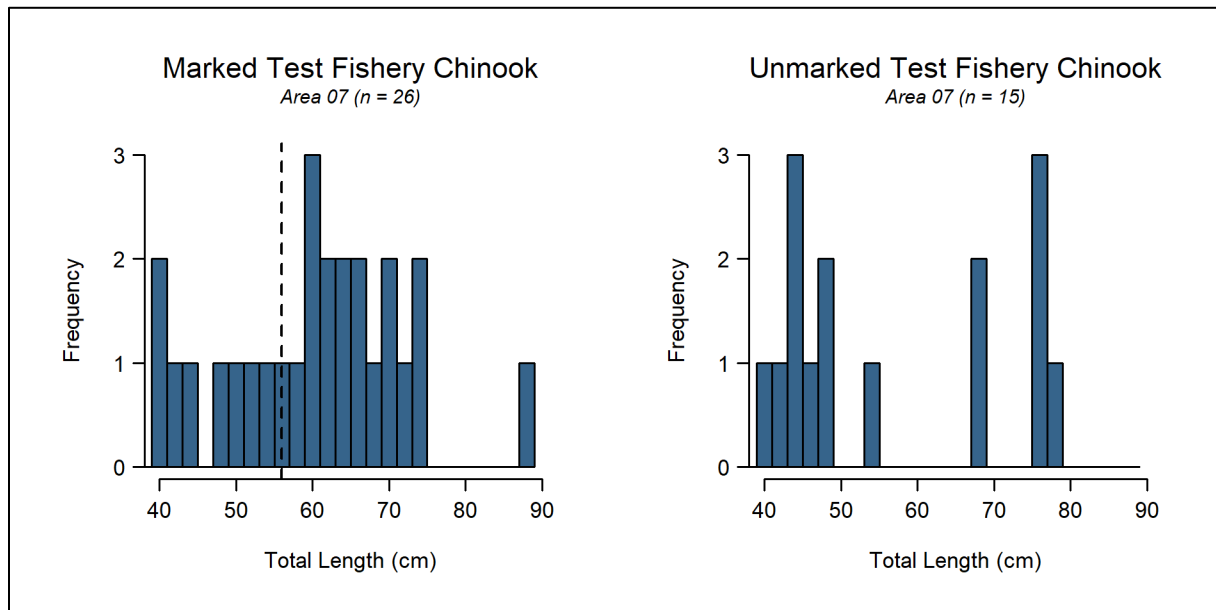
Stat Week	Start Date	End Date	Retained Salmon					Released Salmon						
			Coho AD	Coho UM	Coho UK	Pink	Sockeye	Coho AD	Coho UM	Coho UK	Chum	Pink	Sockeye	Unknown
29	17-Jul	19-Jul	343	7	7	65	4	32	292	18	0	61	4	97
30	25-Jul	25-Jul	4	0	0	4	0	0	18	0	0	7	4	0
31	1-Aug	1-Aug	50	0	0	206	0	28	113	4	7	142	7	53
<b>Season Total:</b>			<b>396</b>	<b>7</b>	<b>7</b>	<b>274</b>	<b>4</b>	<b>61</b>	<b>423</b>	<b>22</b>	<b>7</b>	<b>210</b>	<b>14</b>	<b>150</b>
<b>Variance:</b>			853	1	1	882	0	24	839	5	1	446	2	147
<b>Standard Error:</b>			29	1	1	30	1	5	29	2	1	21	1	12
<b>CV (%):</b>			7	10	14	11	14	8	7	10	14	10	9	8
<b>95% CI:</b>			339 - 453	6 - 9	5 - 9	216 - 332	3 - 5	51 - 70	367 - 480	17 - 26	5 - 9	169 - 251	12 - 17	127 - 174

**Table 3.12** Summary of aerial survey and dockside data used to estimate the fraction of effort captured in the three-site sample frame during the summer Chinook salmon MSF in Marine Area 7. See Methods Report (WDFW 2012a) for computational details and notation.

Survey Date	Stratum	Aerial Survey Details			Dockside Sampling Details			Sample Fraction, $f_{ij}$
		Start Time	End Time	Total Boats, $m_{ij}$	Sampled Boats	Active Boats, $X_{ij}$	Total Boats, $S_{Y_{ijk}}$	
17-Jul	WD	10:49	12:13	653	249	184	884	0.282
18-Jul	WE	11:10	12:42	913	271	202	1,225	0.221
19-Jul	WE	11:16	12:20	521	249	181	717	0.347
25-Jul	WE	11:58	12:48	245	102	69	362	0.282
1-Aug	WE	12:06	12:57	377	153	105	549	0.279
<b>Season Totals:</b>				<b>2,709</b>	<b>1,024</b>	<b>741</b>	<b>3,737</b>	<b>0.274</b>
<b>Mean:</b>				542	205	148	747	0.28
<b>St Dev:</b>				258	73	58	330	0.04
<b>CV (%):</b>				47.58%	35.83%	39.04%	44.13%	15.83%

**Table 3.13** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the summer Chinook salmon MSF in Marine Area 7. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
29	6	54.36	14	3	7	6	30
30	1	9.33	2	0	0	1	3
31	2	18.04	2	3	1	2	8
<b>Total</b>	<b>9</b>	<b>81.74</b>	<b>18</b>	<b>6</b>	<b>8</b>	<b>9</b>	<b>41</b>
<b>Size/mark-status composition:</b>			0.439	0.146	0.195	0.220	
<b>Variance:</b>			(0.0062)	(0.0031)	(0.0039)	(0.0043)	
<b>Legal size mark rate:</b>			0.75				
<b>Overall mark rate:</b>			0.63				



**Figure 3.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the summer Chinook salmon MSF in Marine Area 7. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 3.14** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the summer Chinook MSF in Marine Area 7. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Clear Creek Hatchery	2022	1	3.6	9.45	1.8	0.2	0.024	0.15
George Adams Hatchery	2022	2	7.2	18.91	7.4	0.7	0.196	0.63
Grovers Cr Hatchery	2021	1	3.6	9.45	3.6	0.4	0.094	0.31
Grovers Cr Hatchery	2022	1	3.6	9.45	3.4	0.3	0.085	0.29
Marblemount Hatchery	2021	1	3.6	9.45	3.8	0.4	0.105	0.32
Samish Hatchery	2021	1	3.6	9.45	7	0.7	0.356	0.6
Samish Hatchery	2022	4	14.5	37.81	14.5	1.4	0.379	1.23
Samish Hatchery	2023	1	3.6	9.45	3.7	0.4	0.098	0.31
Spring Cr Nfh	2022	1	3.6	9.45	3.6	0.4	0.095	0.31
Wallace R Hatchery	2022	1	3.6	9.45	3.7	0.4	0.098	0.31
<b>Total</b>		<b>14</b>	<b>50.6</b>	<b>132.35</b>	<b>52.5</b>	<b>5.2</b>	<b>1.529</b>	<b>4.46</b>

**Table 3.15** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 summer Chinook MSF in Marine Area 7. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (18.2%)	R-Chilliwack R	H-Chilliwack River H	1 (2.3%)	0
		R-L Campbell R	H-Little Campbell River H	1 (2.3%)	0
		R-Shuswap R Middle	H-Shuswap River, Middle,	1 (2.3%)	0
		R-Nicola R	H-Spius Creek H	1 (2.3%)	0
		R-Shuswap R Low	H-Shuswap River, Middle,	4 (9.1%)	0
	Western Vancouver Island (2.3%)	R-Nahmint R	H-Robertson Creek H	1 (2.3%)	0
	Georgia Strait (4.5%)	R-Sandy Cv	H-Sandy Cove Seapen	1 (2.3%)	0
R-Big Qualicum R		H-Big Qualicum River H	1 (2.3%)	0	
WA	Northern Washington (27.3%)	Friday Cr 03.0017	Samish Hatchery	6 (13.6%)	6
		East Sound Bay (San)	Glenwood Springs	2 (4.5%)	0
		Kendall Cr 01.0406	Kendall Cr Hatchery	1 (2.3%)	0
		Whatcom Cr 01.0566	Whatcom Cr Hatchery	3 (6.8%)	0
	Straight Of Juan De Fuca (2.3%)	Elwha R 18.0272	Elwha Hatchery	1 (2.3%)	0
	Hood Canal (9.1%)	Finch Cr 16.0222	Hoodsport Hatchery	2 (4.5%)	0
		Purdy Cr 16.0005	George Adams Hatchery	2 (4.5%)	2
	Northern Puget Sound (2.3%)	Wallace R 07.0940	Wallace R Hatchery	1 (2.3%)	1
	Skagit River (4.5%)	Cascade R 03.1411	Marblemount Hatchery	2 (4.5%)	1
	Mid Puget Sound (13.6%)	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	2 (4.5%)	0
Grovers Cr Hatchery		Grovers Cr Hatchery	2 (4.5%)	2	

WA	Mid Puget Sound (13.6%)	Point Defiance Net Pens	Clarks Crk Hatchery	1 (2.3%)	0
		Issaquah Cr 08.0178	Issaquah Hatchery	1 (2.3%)	0
	Southern Puget Sound (11.4%)	Minter Cr 15.0048	Minter Cr Hatchery	3 (6.8%)	0
		Clear Cr 11.0013C	Clear Creek Hatchery	1 (2.3%)	1
		Chambers Cr 12.0007	Garrison Hatchery	1 (2.3%)	0
Columbia River	Central Columbia River (Bonneville Dam to McNary Dam) (2.3%)	Spring Cr 29.0159	Spring Cr Nfh	1 (2.3%)	1
	Lower Columbia River (Mouth to Bonneville Dam) (2.3%)	Big Cr (Lwr Col R)	Big Cr Hatchery	1 (2.3%)	0
<b>Total</b>				<b>44</b>	<b>14</b>

**Table 3.16** Season-total estimates of Chinook salmon encounters by size/mark-status and total estimates of angler effort, summarized for all seasons to date of the Marine Area 7 summer Chinook MSF. Values may not add up exactly due to rounding error.

Area	Season Dates	Effort (Angler-trips)	Retained Chinook				Released Chinook				Total Encounters
			LM	LU	SM	SU	LM	LU	SM	SU	
7	Jul 1 - Jul 31, 2016	9,553	1,292	0	42	0	193	1,485	1,443	637	5,092
7	Jul 1 - Jul 31, 2017	17,535	3,608	22	7	0	539	2,941	4,140	2,370	13,627
7	Jul 1 - Jul 31, 2018	10,577	2,220	4	71	0	332	1,028	817	359	4,832
7	Jul 1 - Jul 31, 2019	11,738	2,947	10	68	0	440	1,370	559	376	5,771
7	Jul 1 - Jul 31, Aug 22- Aug 31, 2020	20,773	1,532	7	17	0	229	1,053	1,425	681	4,945
7	Jul 1 - Jul 7, 2021	6,716	2,504	0	0	0	374	759	387	593	4,618
7	Jul 14 - Jul 30, 2022	6,436	1,758	3	6	0	263	1,120	443	224	3,816
7	Jul 13 - Jul 29, 2023	6,504	2,054	10	17	0	307	2,351	2,049	590	7,379
7	Jul 18 - Aug 13, 2024	10,016	2,142	10	36	0	320	1,263	898	255	4,923
7	Jul 17 - Aug 01, 2025	6,763	1,739	18	18	0	260	648	870	999	4,553

#### 4) Marine Area 9 Summer Mark-Selective Chinook Fishery

The Washington Department of Fish and Wildlife (WDFW) implemented a summer Chinook MSF in Marine Area 9 as two short openers on July 17-19 and July 25, 2025. WDFW's Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, a Full Murthy design, in Area 9 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included intensive dockside creel sampling, on-the-water effort surveys, test fishing and collection of voluntary salmon trip reports (STRs) from the angling public when possible. The fisheries controls used for this fishery were total predicted catch quota of 3,900 (**Table 4.5**). **Table 4.2** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section we present results from our monitoring activities during the Marine Area 9 summer Chinook MSF.

**Table 4.1** Fishery dates and fishery retention status of salmon in the 2025 summer Chinook salmon MSF in Marine Area 9.

Start Date	End Date	Fishery Status	Days
17-Jul	19-Jul	Open	3
20-Jul	24-Jul	Closed	5
25-Jul	25-Jul	Open	1
Total days open			4

**Table 4.2** Sampling/estimation details on target parameters associated with the overall Marine Area 9 summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	One week	Within days, estimates were produced by day-type strata (weekday/weekend). Each week we sampled every Friday, Saturday and Sunday, and we randomly selected $n=2$ out of $N=4$ weekdays (Monday-Thursday) for sampling.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 4.10</b> ).
On-the-water Surveys	Proportion of total angler effort that uses sample-frame sites (i.e., site “size measures”) versus out-of-frame sites.	Total on-water boat and angler counts at assumed peak effort time interval (instantaneous count); spatial distribution of recreational fishing boats in the area.	Boats and anglers	Month	A total of 1 boat surveys (1 weekend surveys) were conducted during this fishery.
Test Fishing	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Chinook salmon length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook salmon encounters	Fish encounter	Season	Test fishing data collected when the fishery was open to Chinook retention ( <b>Table 4.13</b> ) were used for estimate of encounters and mortalities during this fishery. LM = 55.4%; LU% = 33.8%; SM% = 5.4%; SU% = 5.4%. CV = 0.11.
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook	Encounter data for non-Chinook salmon species (e.g., Coho) that the angler may record on the STR form	Fish encounter	Season	Six STRs were returned during this fishery. Because TF data met sample size requirements of $CV < 0.20$ , STRs were not needed to produce encounter and mortality estimates ( <b>Table 4.11</b> ).
Overall Fishery Impacts Estimation	Total Chinook encounters and mortalities, by size/mark-status group	Ratios of encounters and mortalities per kept Chinook	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

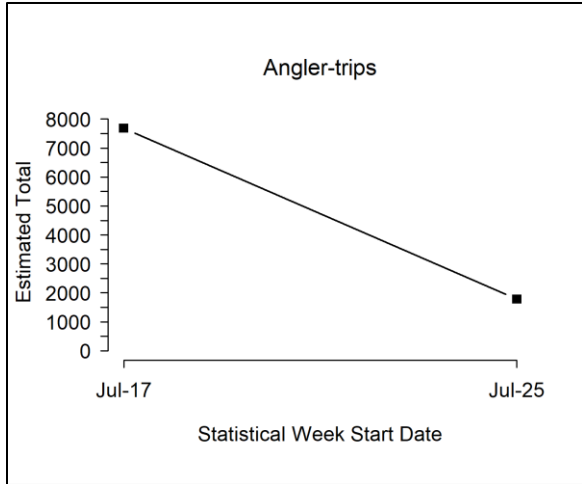
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 4.3** Estimates of total fishing effort and total salmon catch (harvest and releases) during the summer Chinook MSF in Marine Area 9. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

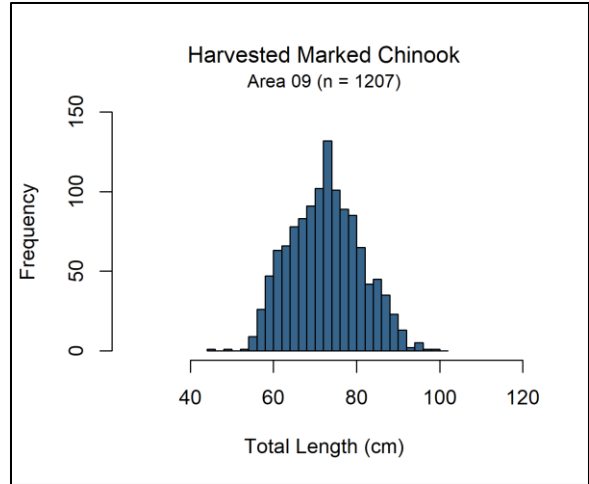
Month	Stat Week	Start Date	End Date	Est. Effort		Est. Retained Chinook		Est. Released Chinook		Total Est. Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
July	29	17-Jul	19-Jul	2,975	7,686	2,903	14	723	2,322	5,962
	30	25-Jul	25-Jul	747	1,784	629	6	157	501	1,293
<b>Season Total:</b>				<b>3,722</b>	<b>9,470</b>	<b>3,532</b>	<b>20</b>	<b>880</b>	<b>2,823</b>	<b>7,254</b>
<b>Variance:</b>				85,325	598,710	131,483	29	691,271	326,785	1,135,340
<b>SE:</b>				292	774	363	5	831	572	1,066
<b>CV (%):</b>				8	8	10	27	95	20	15
<b>95% CI:</b>				3,149 - 4,294	7,954 - 10,987	2,821 - 4,243	9 - 30	0 - 2,509	1,703 - 3,943	5,166 - 9,343

**Table 4.4** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the summer Chinook MSF in Marine Area 9.

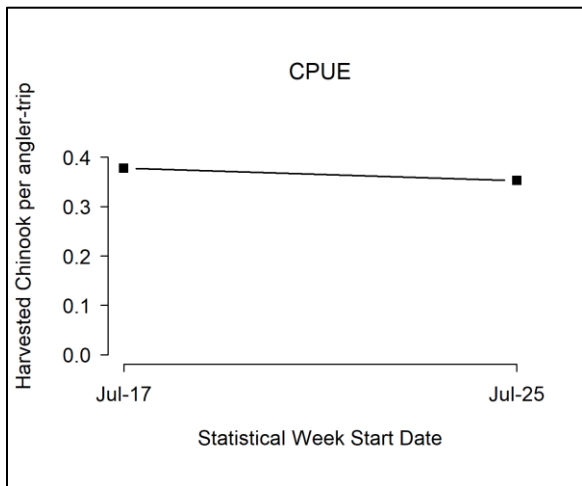
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	1,195	12	1,207
Unmarked	5	4	9
<b>Total</b>	<b>1,200</b>	<b>16</b>	<b>1,216</b>



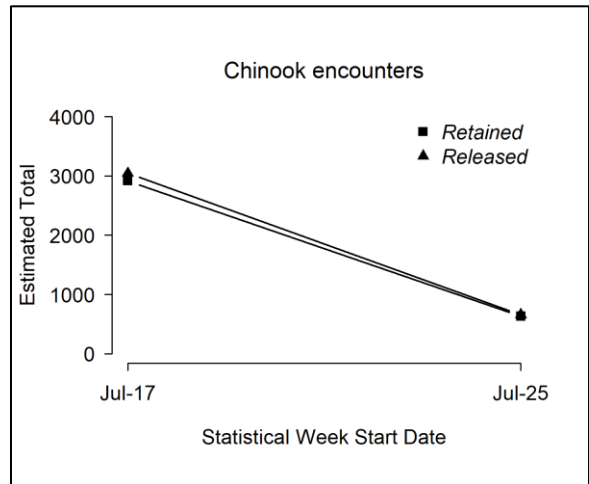
**Figure 4.1** Temporal patterns in fishing effort during the summer Chinook MSF in Marine Area 9.



**Figure 4.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the summer Chinook MSF in Marine Area 9. Note: displayed values are observations where lengths are taken.



**Figure 4.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the summer Chinook MSF in Marine Area 9.



**Figure 4.4** Temporal patterns in Chinook salmon encounters (retained and released) during the summer Chinook MSF in Marine Area 9.

**Table 4.5** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 9. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

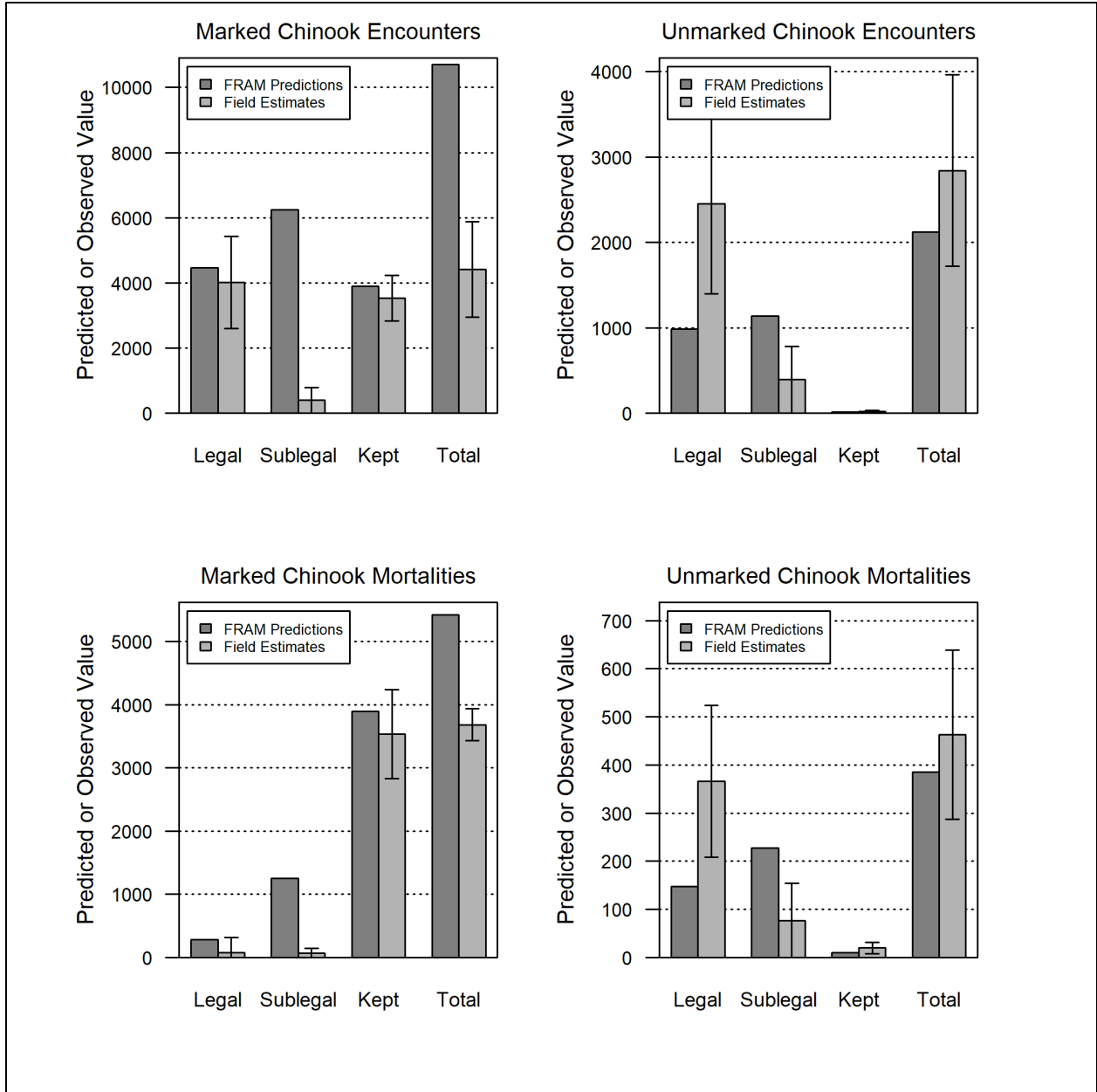
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	2,124	985	1,139	10
	AD	10,713	4,471	6,242	3,890
	Total	12,837	5,456	7,381	3,900
	% Marked	83	82	85	100
Estimated (Creel) Encounters	UM	2,843	2,451	392	20
	AD	4,411	4,019	392	3,532
	Total	7,254	6,470	784	3,552
	% Marked	61	62	50	99

**Table 4.6** Summary of season-wide fishery impact estimates for the summer Chinook MSF in Marine Area 9. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	4,019	3,497	523	78	3,575	143,647	379	2,832 - 4,318	11
Legal UM	2,451	11	2,440	366	377	6,486	81	219 - 535	21
Sublegal AD	392	35	357	71	107	1,694	41	26 - 187	39
Sublegal UM	392	8.8	383	77	85	1,593	40	7 - 164	47
<b>Total</b>	<b>7,254</b>	<b>3,552</b>	<b>3,703</b>	<b>592</b>	<b>4,144</b>	<b>153,420</b>	<b>392</b>	<b>3,376 - 4,912</b>	<b>9</b>

**Table 4.7** Comparison of modeled and estimated total Chinook salmon mortalities for the summer Chinook MSF in Marine Area 9. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	385	5,420	5,805	462	3,682	4,144
Released Legal	147	282	429	366	78	444
Released Sublegal	228	1,248	1,476	77	71	148
Landed Only	10	3,890	3,900	20	3,532	3,552



**Figure 4.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the summer Chinook MSF in Marine Area 9. Error bars represent approximately 95% confidence intervals for field estimates.

**Table 4.8** Summary of the total number of anglers intercepted during on-the-water surveys conducted for the summer Chinook MSF in Marine Area 9. Sites in bold represent those included in the dockside sample frame.

Site Name	Weekday Anglers	Season Total (unadjusted) Size Measure	Weekend Anglers	Season Total (unadjusted) Size Measure
Bayside Marina/Drystack	0	NA	3	0.0103
Brownsville Marina	0	NA	3	0.0103
Cape George Marina	0	NA	2	0.0069
Coupeville Public Ramp	0	NA	4	0.0137
Driftwood Key Marina	0	NA	9	0.0309
Edmonds Boat Basin	0	NA	3	0.0103
<b>Edmonds Dry Storage</b>	<b>0</b>	<b>NA</b>	<b>10</b>	<b>0.0344</b>
Edmonds Marina	0	NA	34	0.1168
Elliott Bay Marina	0	NA	4	0.0137
Everett Marina	0	NA	26	0.0893
<b>Everett Ramp</b>	<b>0</b>	<b>NA</b>	<b>76</b>	<b>0.2612</b>
<b>Fort Casey Public Ramp and Shore</b>	<b>0</b>	<b>NA</b>	<b>5</b>	<b>0.0172</b>
Fort Flagler Ramps-Marrowstone Is	0	NA	4	0.0137
John Wayne Marina	0	NA	2	0.0069
<b>Kingston Public Ramp</b>	<b>0</b>	<b>NA</b>	<b>13</b>	<b>0.0447</b>
Langley Marina/Ramp	0	NA	3	0.0103
<b>Mukilteo Lighthouse Park</b>	<b>0</b>	<b>NA</b>	<b>2</b>	<b>0.0069</b>
Mutiny Bay Public Ramp	0	NA	1	0.0034
Point Hudson Marina	0	NA	4	0.0137
Port Ludlow Marina/Beach Launch	0	NA	4	0.0137
Port Orchard Marina	0	NA	3	0.0103
Port Townsend Boat Haven	0	NA	4	0.0137
<b>Port Townsend Boat Haven Ramp</b>	<b>0</b>	<b>NA</b>	<b>29</b>	<b>0.0997</b>
Possession Waterfront Beach Park	0	NA	11	0.0378
Private	0	NA	10	0.0344
Salsbury County Park Ramp	0	NA	5	0.0172
Shilshole Marina	0	NA	13	0.0447
Shilshole Public Ramp	0	NA	2	0.0069
South Park - Duwamish	0	NA	2	0.0069
<b>Total Anglers</b>	<b>0</b>	<b>0</b>	<b>291</b>	<b>1</b>

**Table 4.9** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the summer Chinook MSF in Marine Area 9. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
July	29 - 30	17 Jul - 25 Jul	3,532	20	3,552	1,225	9	1,234	34.70%
<b>Season Total</b>			<b>3,532</b>	<b>20</b>	<b>3,552</b>	<b>1,225</b>	<b>9</b>	<b>1,234</b>	<b>34.70%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the summer Chinook MSF in Marine Area 9 (creel estimates and fish sampled as part of baseline sampling).

**Table 4.10** Dockside encounters (retained and released) by size-mark category during the summer Chinook salmon MSF in Marine Area 9. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	1,232	245	211	126
Bias-corrected size/mark composition	60.45%	13.51%	11.63%	14.42%
Variance	0.000229	0.0001022	0.0001221	8.224E-05

**Table 4.11** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 summer Chinook salmon MSF in Marine Area 9, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

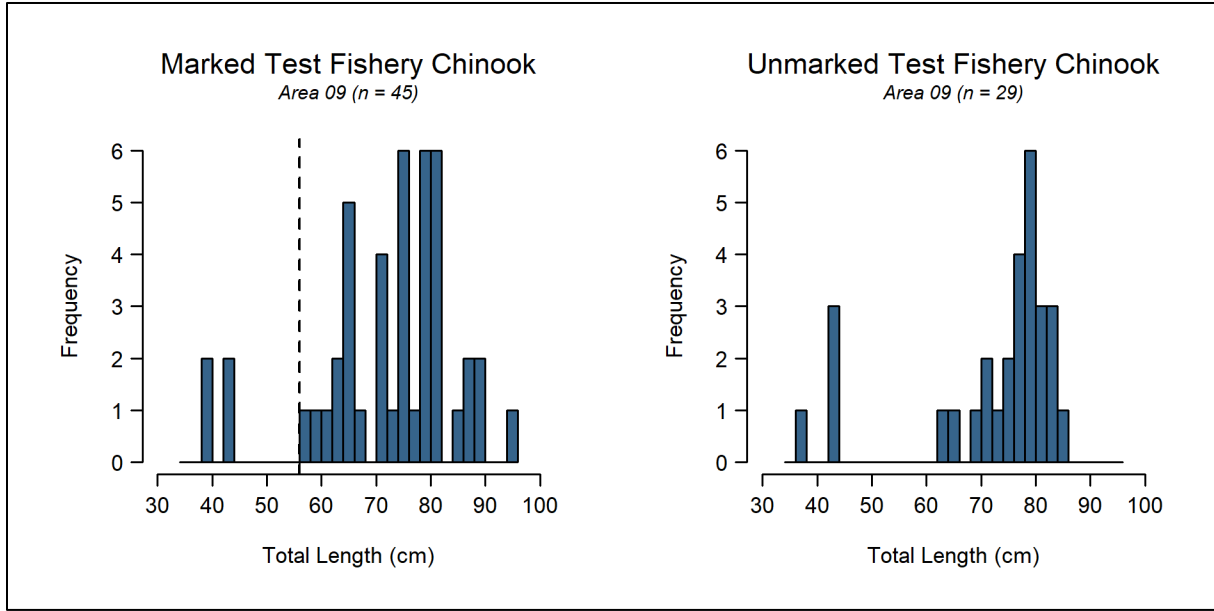
Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	6 1-trip STRs	9	7	4	0	20	0.65	0.56
<b>Size/mark-status composition:</b>		0.45	0.35	0.20	0.00			
<b>Variance:</b>		(0.0130)	(0.0120)	(0.0084)	(0.0000)			

**Table 4.12** Fishery-total estimates of retained and released salmon (other than Chinook) for the summer Chinook MSF in Marine Area 9. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Week	Start Date	End Date	Retained Salmon					Released Salmon				
			Coho AD	Coho UM	Coho UK	Pink	Unknown	Coho AD	Coho UM	Coho UK	Pink	Unknown
29	17-Jul	19-Jul	511	24	3	14	13	85	383	104	60	181
30	25-Jul	25-Jul	195	9	0	36	0	26	106	23	26	74
<b>Season Total:</b>			<b>706</b>	<b>32</b>	<b>3</b>	<b>50</b>	<b>13</b>	<b>111</b>	<b>489</b>	<b>127</b>	<b>86</b>	<b>255</b>
<b>Variance:</b>			41,623	86	4	646	21	949	18,555	1,485	212	4,856
<b>Standard Error:</b>			204	9	2	25	5	31	136	39	15	70
<b>CV (%):</b>			29	29	57	51	35	28	28	30	17	27
<b>95% CI:</b>			306 - 1,106	14 - 51	0 - 7	0 - 100	4 - 22	51 - 171	222 - 756	52 - 203	58 - 115	119 - 392

**Table 4.13** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the summer Chinook salmon MSF in Marine Area 9. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
29	7	53.36	33	18	2	3	56
30	3	20.07	8	7	2	1	18
<b>Total</b>	<b>10</b>	<b>73.43</b>	<b>41</b>	<b>25</b>	<b>4</b>	<b>4</b>	<b>74</b>
<b>Size/mark-status composition:</b>			0.554	0.338	0.054	0.054	
<b>Variance:</b>			(0.0034)	(0.0031)	(0.0007)	(0.0007)	
<b>Legal size mark rate:</b>			0.62				
<b>Overall mark rate:</b>			0.61				



**Figure 4.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the summer Chinook salmon MSF in Marine Area 9. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 4.14** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the summer Chinook MSF in Marine Area 9. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Clear Creek Hatchery	2021	2	5.8	11.22	5.9	0.6	0.115	0.48
Clear Creek Hatchery	2022	3	8.8	16.83	4.4	0.4	0.042	0.36
George Adams Hatchery	2021	2	5.8	11.22	5.9	0.6	0.114	0.48
George Adams Hatchery	2022	4	11.7	22.44	11.9	1.2	0.232	0.96
Grovers Cr Hatchery	2022	4	11.7	22.44	11.1	1.1	0.201	0.9
Marblemount Hatchery	2022	1	2.9	5.61	2.9	0.3	0.056	0.24
Samish Hatchery	2020	1	2.9	5.61	3	0.3	0.057	0.24
Samish Hatchery	2021	1	2.9	5.61	5.7	0.6	0.211	0.46
Soos Creek Hatchery	2021	3	8.8	16.83	9.4	0.9	0.196	0.77
Soos Creek Hatchery	2022	2	5.8	11.22	5.9	0.6	0.114	0.48
Wallace R Hatchery	2022	2	5.8	11.22	5.9	0.6	0.116	0.48
<b>Total</b>		<b>25</b>	<b>72.9</b>	<b>140.26</b>	<b>72</b>	<b>7.2</b>	<b>1.455</b>	<b>5.84</b>

**Table 4.15** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 summer Chinook MSF in Marine Area 9. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (5.6%)	R-Chilliwack R	H-Chilliwack River H	7 (4.9%)	0
		R-Harrison R	H-Chehalis River H	1 (0.7%)	0
	Georgia Strait (4.9%)	R-Cowichan R	H-Cowichan River H	2 (1.4%)	0
		R-Sandy Cv	H-Sandy Cove Seapen	5 (3.5%)	0
WA	Northern Washington (1.4%)	Friday Cr 03.0017	Samish Hatchery	2 (1.4%)	2
	Hood Canal (6.9%)	Finch Cr 16.0222	Hoodsport Hatchery	3 (2.1%)	0
		Purdy Cr 16.0005	George Adams Hatchery	6 (4.2%)	6
		Vance Cr 16.0013	Mckernan Hatchery	1 (0.7%)	0
	Northern Puget Sound (9.7%)	Stillaguamish R -Sf	Brenner Hatchery	1 (0.7%)	0
		Skykomish R 07.0012	Reiter Ponds	3 (2.1%)	0
		Wallace R 07.0940	Wallace R Hatchery	8 (5.6%)	2
		Tulalip Cr 07.0001	Bernie Gobin Hatch	2 (1.4%)	0
	Skagit River (2.1%)	Cascade R 03.1411	Marblemount Hatchery	1 (0.7%)	1
		Co Line Slu 03.1853A	Marblemount Hatchery	2 (1.4%)	0
	Mid Puget Sound (41%)	Big Soos Cr 09.0072	Soos Creek Hatchery	5 (3.5%)	5
		Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	14 (9.7%)	0
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	15 (10.4%)	0
		Issaquah Cr 08.0178	Issaquah Hatchery	4 (2.8%)	0
		Point Defiance Net Pens	Clarks Crk Hatchery	8 (5.6%)	0
		Voight Cr 10.0414	Voights Cr Hatchery	6 (4.2%)	0
		Wilkeson Creek Hatchery	Clarks Crk Hatchery	1 (0.7%)	0
		Clarks Crk Hatchery	Clarks Crk Hatchery	2 (1.4%)	0
		Grovers Cr Hatchery	Grovers Cr Hatchery	4 (2.8%)	4
	Southern Puget Sound (28.5%)	Minter Cr 15.0048	Minter Cr Hatchery	16 (11.1%)	0
Chambers Cr 12.0007		Garrison Hatchery	6 (4.2%)	0	
Clear Cr 11.0013C		Clear Creek Hatchery	10 (6.9%)	5	
Deschutes R 13.0028		Tumwater Falls Hatchery	9 (6.2%)	0	
<b>Total</b>				<b>144</b>	<b>25</b>

**Table 4.16** Season-total estimates of Chinook salmon encounters by size/mark-status and total estimates of angler effort, summarized for all seasons to date of the Marine Area 9 summer Chinook MSF. Values may not add up exactly due to rounding error.

Season Dates	Effort (Angler-trips)	Retained Chinook				Released Chinook				Total Encounters
		LM	LU	SM	SU	LM	LU	SM	SU	
Jul 16 - Jul 31, 2007	18,160	5,094	13	146	20	711	1,111	1,286	317	8,697
Jul 16 - Aug 15, 2008	20,399	4,035	3	10	0	597	1,608	3,212	3,826	13,290
Jul 16 - Aug 31, 2009	42,219	3,090	20	139	0	462	1,272	8,256	2,905	16,143
Jul 16 - Aug 31, 2010	31,200	5,282	33	10	6	740	2,125	750	249	9,194
Jul 16 - Aug 31, 2011	37,862	2,285	19	78	6	339	1,142	2,150	1,070	7,090
Jul 16 - Aug 19, 2012	24,886	6,972	12	101	2	1,039	2,351	5,168	4,721	20,366
Jul 16 - Aug 4, 2013	20,501	4,667	18	39	0	697	1,174	1,750	397	8,742
Jul 16 - Aug 15, 2014	23,113	2,865	6	4	0	428	668	745	299	5,015
Jul 16 - Jul 26, 2015	14,118	2,277	13	35	7	340	1,502	1,481	131	5,786
Jul 16 - Aug 15, 2016	14,911	2,861	9	112	0	427	912	4,886	2104	11,311
Jul 16 - Jul 30, 2017	18,548	5,264	0	191	3	787	1261	9,388	2266	19,160
Jul 16 - Jul 29, 2018	17,356	5,935	1	93	1	887	1084	3,628	464	12,094
Jul 25 - Aug 9, 2019	17,147	3,434	5	11	0	513	579	573	146	5,263
Jul 16 - Aug 15, 2020	45,376	3,684	0	102	0	551	1,289	10,392	2,946	18,964
Jul 16 - Aug 5, 2021	24,266	5,119	6	150	13	765	1,675	14,981	5,872	28,580
Jul 14 - Aug 4, 2022	16,315	4,637	3	57	0	693	3,389	8,181	1,454	18,413
Jul 13 - Jul 28, 2023	14,520	4,446	13	105	0	664	1,152	4,557	1,076	12,013
Jul 18, - Aug 04, 2024	10,401	3,579	18	124	3	535	2,137	2,815	1,564	10,774
Jul 17 - Jul 25, 2025	9,470	3,497	11	35	8.8	523	2,440	357	383	7,254

## 5) Marine Area 10 Summer Mark-Selective Chinook Fishery

The Washington Department of Fish and Wildlife (WDFW) implemented a summer Chinook MSF in Marine Area 10 as a series of short openers on July 17-19, July 24-26, July 31 – August 2, August 9, August 16, and August 23, 2025. WDFW’s Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, a Full Murthy design, in Marine Area 10 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included intensive dockside creel sampling, on-the-water effort surveys, test fishing and collection of voluntary salmon trip reports (STRs) from the angling public whenever possible. The fishery control was the preseason modeled expected catch (3,166) and total sublegal encounters (6,742). **Table 5.2** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section we present results from our monitoring activities during the Marine Area 10 summer Chinook MSF.

**Table 5.1** Fishery dates and fishery retention status of salmon in the 2025 summer Chinook salmon MSF in Marine Area 10.

Start Date	End Date	Fishery Status	Days
17-Jul	19-Jul	Open	3
20-Jul	23-Jul	Closed	4
24-Jul	26-Jul	Open	3
27-Jul	30-Jul	Closed	4
31-Jul	2-Aug	Open	3
3-Aug	8-Aug	Closed	6
9-Aug	9-Aug	Open	1
10-Aug	15-Aug	Closed	6
16-Aug	16-Aug	Open	1
17-Aug	22-Aug	Closed	6
23-Aug	23-Aug	Open	1
Total days open			12

**Table 5.2** Sampling/estimation details on target parameters associated with the overall Marine Area 10 summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release.	One week	Within days, estimates were produced by day-type strata (weekday/weekend). Each week we sampled every Friday, Saturday, and Sunday, and we randomly selected $n=2$ out of $N=4$ weekdays (Monday-Thursday) for sampling.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 5.10</b> ).
On-the-water Surveys	Proportion of total angler effort that uses sample-frame sites (i.e., site “size measures”) versus out-of-frame sites.	Total on-water boat and angler counts at assumed peak effort time interval (instantaneous count); spatial distribution of recreational fishing boats in the area.	Boats and anglers	Month	A total of 6 boat surveys (2 weekday and 4 weekend) were conducted during the fishery.
Test Fishing	Size (legal/sublegal) and mark-status composition (marked, unmarked) of encountered Chinook salmon	Chinook salmon length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook salmon encounters	Fish encounter	Season	Test fishery data were only used to estimate the size/mark-status proportions (LM = 57.7%, LU = 17.3%, SM = 13.5%, SU = 11.5%; <b>Table 5.13</b> ) needed to produce encounter and mortality estimates (CV = 0.08).
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status composition (marked, unmarked) of encountered Chinook salmon	Encounter data for non-Chinook salmon species (e.g., Coho salmon) that the angler may record on the STR form	Fish encounter	Season	12 STRs were returned during this fishery ( <b>Table 5.11</b> ). Because TF data met sample size requirements of $CV < 0.20$ , STRs were not needed to produce encounter and mortality estimates.
Overall Fishery Impacts Estimation	Total Chinook salmon encounters and mortalities by size/mark-status group	Ratios of encounters and mortalities per kept Chinook salmon	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered.

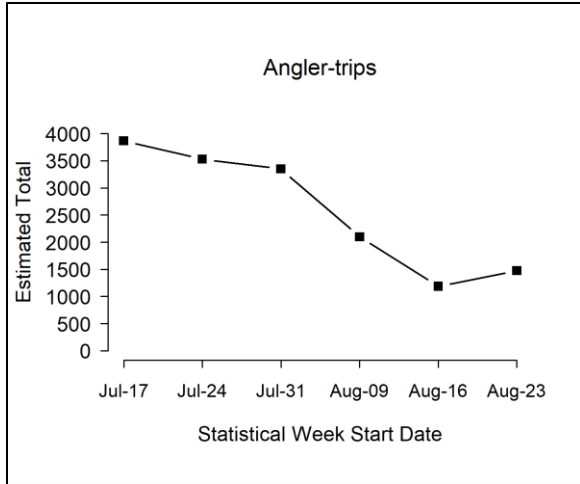
<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 5.3** Estimates of total fishing effort and total salmon catch (harvest and releases) during the summer Chinook MSF in Marine Area 10. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

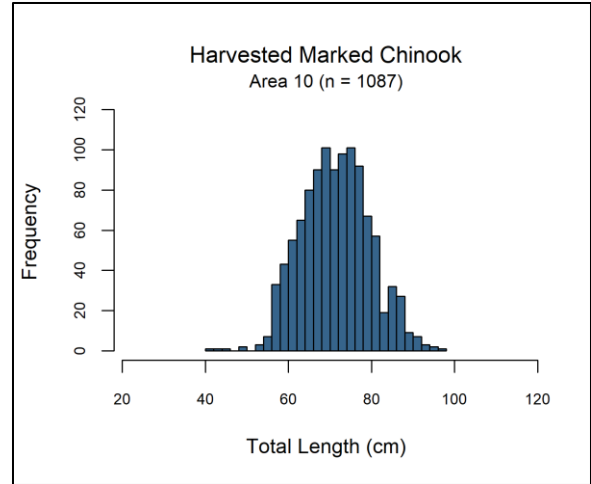
Month	Stat Week	Start Date	End Date	Estimated Effort		Est. Retained Chinook		Est. Released Chinook		Total Est. Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
Jul	29	17-Jul	19-Jul	1,794	3,868	885	3	352	498	1,739
	30	24-Jul	26-Jul	1,671	3,531	698	0	278	396	1,371
	31	31-Jul	2-Aug	1,465	3,350	686	3	273	386	1,349
Aug	32	9-Aug	9-Aug	905	2,098	462	3	184	258	907
	33	16-Aug	16-Aug	499	1,188	161	0	64	92	317
	34	23-Aug	23-Aug	653	1,475	258	0	103	146	507
<b>Season Total</b>				<b>6,987</b>	<b>15,510</b>	<b>3,150</b>	<b>9</b>	<b>1,254</b>	<b>1,776</b>	<b>6,189</b>
<b>Variance:</b>				13,632	155,166	9,732	5	251,817	103,910	310,810
<b>Standard Error:</b>				117	394	99	2	502	322	558
<b>CV (%):</b>				2	3	3	24	40	18	9
<b>95% CI:</b>				6,758 - 7,216	14,738 - 16,282	2,957 - 3,343	5 - 14	270 - 2,237	1,144 - 2,408	5,097 - 7,282

**Table 5.4** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the summer Chinook MSF in Marine Area 10.

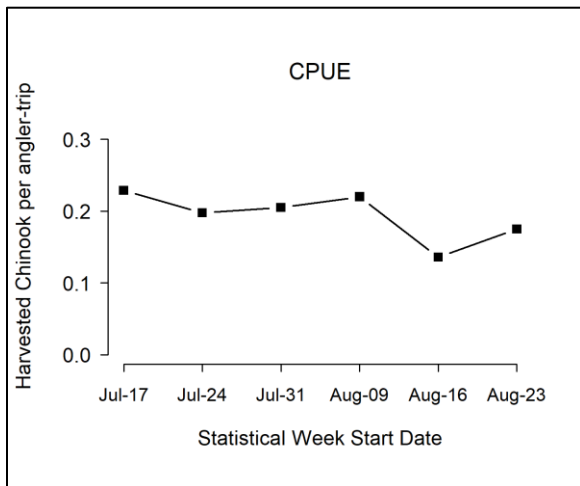
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	1,072	15	1,087
Unmarked	4	3	7
<b>Total</b>	<b>1,076</b>	<b>18</b>	<b>1,094</b>



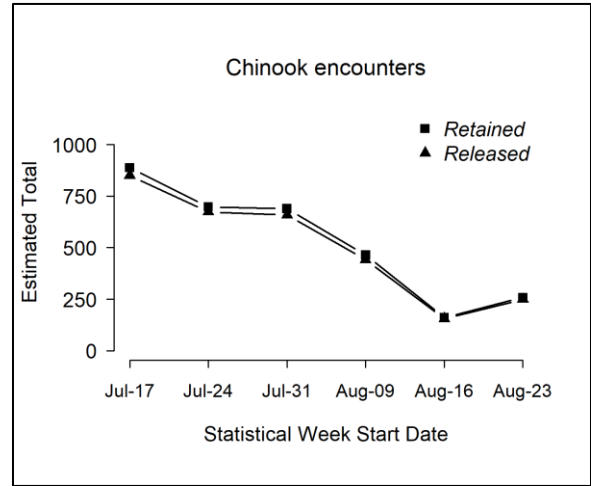
**Figure 5.1** Temporal patterns in fishing effort during the summer Chinook MSF in Marine Area 10.



**Figure 5.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the summer Chinook MSF in Marine Area 10. Note: displayed values are observations where lengths are taken.



**Figure 5.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the summer Chinook MSF in Marine Area 10.



**Figure 5.4** Temporal patterns in Chinook salmon encounters (retained and released) during the summer Chinook MSF in Marine Area 10.

**Table 5.5** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 10. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

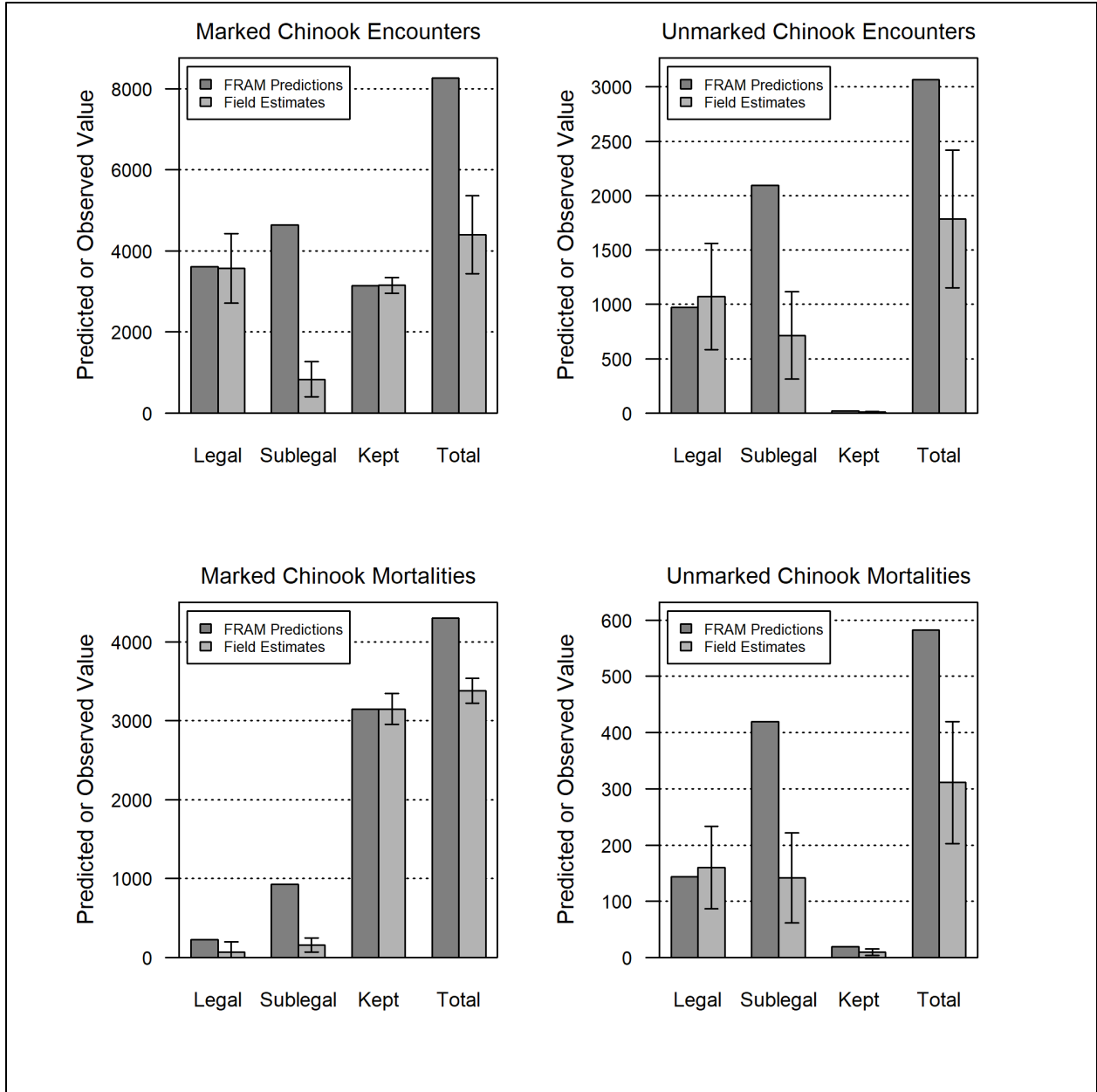
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	3,067	972	2,095	19
	AD	8,264	3,617	4,647	3,147
	Total	11,331	4,589	6,742	3,166
	% Marked	73	79	69	99
Estimated (Creel) Encounters	UM	1,785	1,071	714	9
	AD	4,404	3,571	833	3,150
	Total	6,189	4,642	1,547	3,159
	% Marked	71	77	54	100

**Table 5.6** Summary of season-wide fishery impact estimates for the summer Chinook MSF in Marine Area 10. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	3,571	3,107	464	70	3,176	14,159	119	2,943 - 3,409	4
Legal UM	1,071	5	1,066	160	165	1,403	37	92 - 239	23
Sublegal AD	833	43	790	158	201	2,075	46	112 - 291	23
Sublegal UM	714	4	710	142	146	1,676	41	66 - 226	28
<b>Total</b>	<b>6,189</b>	<b>3,159</b>	<b>3,030</b>	<b>529</b>	<b>3,689</b>	<b>19,313</b>	<b>139</b>	<b>3,416 - 3,961</b>	<b>4</b>

**Table 5.7** Comparison of modeled and estimated total Chinook salmon mortalities for the summer Chinook MSF in Marine Area 10. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	582	4,303	4,885	311	3,378	3,689
Released Legal	144	227	371	160	70	230
Released Sublegal	419	929	1,348	142	158	300
Landed Only	19	3,147	3,166	9	3,150	3,159



**Figure 5.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the summer Chinook MSF in Marine Area 10. Error bars represent approximately 95% confidence intervals for field estimates.

**Table 5.8** Summary of the total number of anglers intercepted during on-the-water surveys conducted for the summer Chinook MSF in Marine Area 10. Sites in bold represent those included in the dockside sample frame.

Site Name	Weekday Anglers	Season Total (unadjusted) Size Measure	Weekend Anglers	Season Total (unadjusted) Size Measure
<b>Armeni Public Ramp</b>	<b>9</b>	<b>0.0249</b>	<b>104</b>	<b>0.0858</b>
Bayside Marina/Drystack	4	0.0111	13	0.0107
Bremerton Yacht Club	5	0.0139	0	0.0000
<b>Brownsville Dock/Ramp</b>	<b>10</b>	<b>0.0277</b>	<b>39</b>	<b>0.0322</b>
<b>Brownsville Marina</b>	<b>5</b>	<b>0.0139</b>	<b>21</b>	<b>0.0173</b>
Driftwood Key Marina	6	0.0166	4	0.0033
Eagle Harbor Waterfront Park	4	0.0111	7	0.0058
Edmonds Boat Basin	10	0.0277	40	0.0330
Edmonds Dry Storage	17	0.0471	28	0.0231
Edmonds Marina	71	0.1967	169	0.1394
Elliott Bay Marina	11	0.0305	54	0.0446
Everett Marina	13	0.0360	19	0.0157
Everett Ramp	19	0.0526	63	0.0520
Gig Harbor Ramp	3	0.0083	0	0.0000
Kingston Marina	16	0.0443	27	0.0223
<b>Kingston Public Ramp</b>	<b>10</b>	<b>0.0277</b>	<b>103</b>	<b>0.0850</b>
<b>Manchester Public Ramp</b>	<b>7</b>	<b>0.0194</b>	<b>23</b>	<b>0.0190</b>
Point Defiance Public Ramp	2	0.0055	8	0.0066
Port Ludlow Marina/Beach Launch	3	0.0083	0	0.0000
Port Orchard Public Ramp	3	0.0083	24	0.0198
Possession Waterfront Beach Park	4	0.0111	2	0.0017
Private	4	0.0111	20	0.0165
Shilshole Marina	52	0.1440	155	0.1279
<b>Shilshole Public Ramp</b>	<b>71</b>	<b>0.1967</b>	<b>218</b>	<b>0.1799</b>
Winslow Marina	2	0.0055	2	0.0017
Alki Point	0	0.0000	1	0.0008
Camano Island Ramp	0	0.0000	3	0.0025
Dagmar's Landing, Forklift Launch	0	0.0000	2	0.0017
Des Moines Marina	0	0.0000	4	0.0033
Duwamish Yacht Club	0	0.0000	2	0.0017
Edmonds Marine Beach	0	0.0000	3	0.0025
Evergreen Park Ramp	0	0.0000	2	0.0017
First Avenue South Public Ramp	0	0.0000	5	0.0041
Keyport Ramp	0	0.0000	2	0.0017
Mukilteo Lighthouse Park	0	0.0000	16	0.0132
Mutiny Bay Resort	0	0.0000	2	0.0017
Narrows Marina	0	0.0000	3	0.0025
Port Orchard Marina	0	0.0000	2	0.0017
Poulsbo Ramp/Marina	0	0.0000	5	0.0041
Redondo Ramp	0	0.0000	7	0.0058
South Park - Duwamish	0	0.0000	5	0.0041
Tyee Marina/Ramp	0	0.0000	2	0.0017
Unknown	0	0.0000	3	0.0025
<b>Total Anglers</b>	<b>361</b>	<b>1</b>	<b>1212</b>	<b>1</b>

**Table 5.9** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the summer Chinook MSF in Marine Area 10. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
July	29 - 30	17 Jul - 26 Jul	1,583	3.2	1,586	480	1	481	30.30%
August	31 - 34	31 Jul - 23 Aug	1,567	6.1	1,573	619	6	625	39.70%
<b>Season Total</b>			<b>3,150</b>	<b>9.3</b>	<b>3,159</b>	<b>1,099</b>	<b>7</b>	<b>1,106</b>	<b>35.00%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the summer Chinook MSF in Marine Area 10 (creel estimates and fish sampled as part of baseline sampling).

**Table 5.10** Dockside encounters (retained and released) by size-mark category during the summer Chinook salmon MSF in Marine Area 10. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	1,131	297	325	135
Bias-corrected size/mark composition	53.32%	15.73%	17.21%	13.74%
Variance	0.000199	9.385E-05	0.0001464	4.951E-05

**Table 5.11** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 summer Chinook salmon MSF in Marine Area 10, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

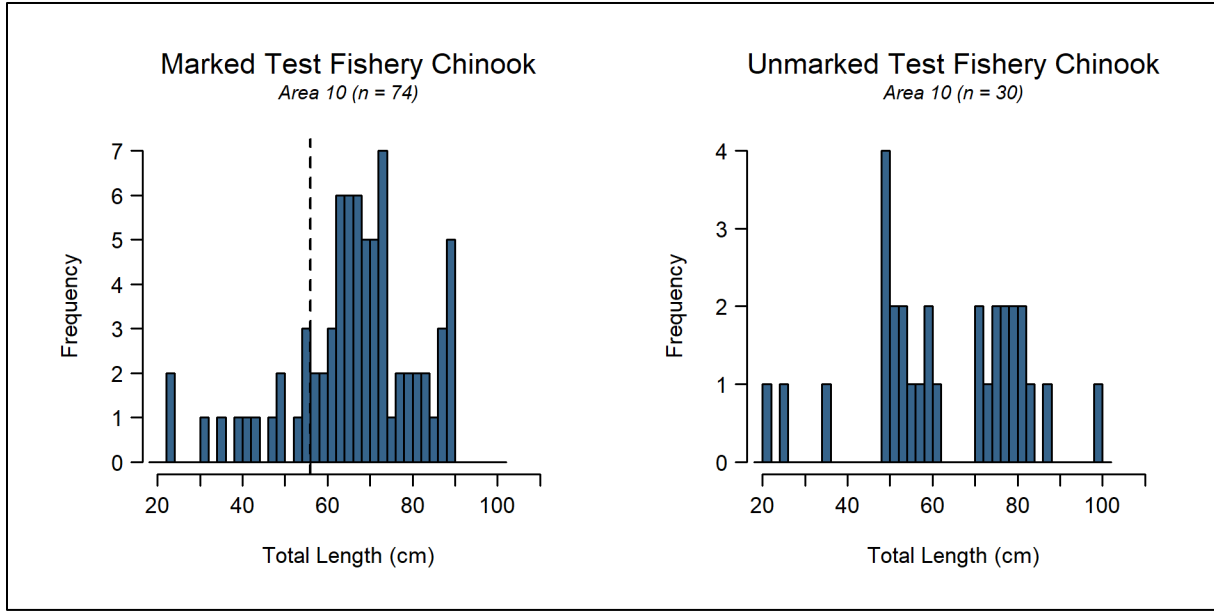
Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	4 1-trip STRs	9	4	2	1	16	0.69	0.69
Charter STR	8 1-trip STRs	32	19	1	2	54	0.61	0.63
Pooled STR	12 1-trip STRs	41	23	3	3	70	0.63	0.64
<b>Size/mark-status composition:</b>		0.59	0.33	0.04	0.04			
<b>Variance:</b>		(0.0035)	(0.0032)	(0.0006)	(0.0006)			

**Table 5.12** Fishery-total estimates of retained and released salmon (other than Chinook) for the summer Chinook MSF in Marine Area 10. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Week	Start Date	End Date	Retained Salmon					Released Salmon						
			Coho AD	Coho UM	Chum	Pink	Unknown	Coho AD	Coho UM	Coho UK	Chum	Pink	Sockeye	Unknown
29	17-Jul	19-Jul	259	206	3	87	27	62	26	193	0	24	0	235
30	24-Jul	26-Jul	132	181	0	259	0	28	39	128	18	90	0	287
31	31-Jul	2-Aug	132	132	0	524	12	57	21	193	3	118	0	374
32	9-Aug	9-Aug	134	81	0	1,724	3	65	20	122	3	346	5	326
33	16-Aug	16-Aug	52	61	0	1,261	0	5	6	12	0	281	0	70
34	23-Aug	23-Aug	173	238	0	1,060	0	9	5	127	0	387	0	318
<b>Season Total:</b>			<b>881</b>	<b>898</b>	<b>3</b>	<b>4,915</b>	<b>42</b>	<b>226</b>	<b>117</b>	<b>774</b>	<b>24</b>	<b>1,246</b>	<b>5</b>	<b>1,611</b>
<b>Variance:</b>			1,583	4,033	2	71,094	68	758	185	2,655	195	12,095	16	15,296
<b>Standard Error:</b>			40	64	1	267	8	28	14	52	14	110	4	124
<b>CV (%):</b>			5	7	44	5	20	12	12	7	58	9	73	8
<b>95% CI:</b>			803 - 959	774 - 1,023	0 - 6	4,392 - 5,437	26 - 58	172 - 280	91 - 144	673 - 875	0 - 52	1,030 - 1,462	0 - 13	1,368 - 1,853

**Table 5.13** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the summer Chinook salmon MSF in Marine Area 10. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
29	2	10.09	4	1	0	0	5
30	2	17.97	8	3	3	2	16
31	4	32.83	13	8	2	1	24
32	9	64.04	22	5	3	5	35
33	5	35.87	12	1	5	3	21
34	1	3.05	1	0	1	1	3
<b>Total</b>	<b>23</b>	<b>163.85</b>	<b>60</b>	<b>18</b>	<b>14</b>	<b>12</b>	<b>104</b>
<b>Size/mark-status composition:</b>			0.577	0.173	0.135	0.115	
<b>Variance:</b>			(0.0024)	(0.0014)	(0.0011)	(0.0010)	
<b>Legal size mark rate:</b>			0.77				
<b>Overall mark rate:</b>			0.71				



**Figure 5.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the summer Chinook salmon MSF in Marine Area 10. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 5.14** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the summer Chinook MSF in Marine Area 10. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Bernie Gobin Hatchery	2021	1	2.9	5.45	2.9	0.3	0.055	0.23
Clear Creek Hatchery	2022	4	11.6	21.81	5.8	0.6	0.055	0.47
George Adams Hatchery	2022	4	11.6	21.81	11.8	1.2	0.226	0.95
Grovers Cr Hatchery	2020	1	2.9	5.45	2.7	0.3	0.047	0.22
Grovers Cr Hatchery	2021	19	49.1	92.68	54.8	10.7	11.829	8.64
Grovers Cr Hatchery	2022	8	23.1	43.62	21.9	2.2	0.391	1.77
Marblemount Hatchery	2021	1	0	0	2.9	2.9	5.452	2.33
Samish Hatchery	2021	1	2.9	5.45	5.6	0.6	0.205	0.45
Soos Creek Hatchery	2020	1	2.9	5.45	2.9	0.3	0.056	0.24
Soos Creek Hatchery	2021	6	14.4	27.26	18.5	4.4	5.769	3.59
Soos Creek Hatchery	2022	1	2.9	5.45	2.9	0.3	0.055	0.24
Wallace R Hatchery	2022	2	5.8	10.9	5.9	0.6	0.113	0.47
<b>Total</b>		<b>49</b>	<b>130.1</b>	<b>245.34</b>	<b>138.5</b>	<b>24.2</b>	<b>24.252</b>	<b>19.6</b>

**Table 5.15** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 summer Chinook MSF in Marine Area 10. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (8.1%)	R-Chilliwack R	H-Chilliwack River H	14 (7.1%)	0
		R-L Campbell R	H-Little Campbell River H	2 (1%)	0
	Georgia Strait (0.5%)	R-Sandy Cv	H-Sandy Cove Seapen	1 (0.5%)	0
WA	Northern Washington (1%)	Friday Cr 03.0017	Samish Hatchery	1 (0.5%)	1
		East Sound Bay (San)	Glenwood Springs	1 (0.5%)	0
	Hood Canal (3.6%)	Purdy Cr 16.0005	George Adams Hatchery	4 (2%)	4
		Finch Cr 16.0222	Hoodsport Hatchery	3 (1.5%)	0
	Northern Puget Sound (3.6%)	Skykomish R 07.0012	Reiter Ponds	1 (0.5%)	0
		Wallace R 07.0940	Wallace R Hatchery	3 (1.5%)	2
		Whitehorse Springs	Whitehorse Pond	1 (0.5%)	0
		Tulalip Cr 07.0001	Bernie Gobin Hatch	2 (1%)	1
	Skagit River (1%)	Co Line Slu 03.1853A	Marblemount Hatchery	1 (0.5%)	0
		Cascade R 03.1411	Marblemount Hatchery	1 (0.5%)	1
	Mid Puget Sound (49.2%)	Issaquah Cr 08.0178	Issaquah Hatchery	8 (4.1%)	0
		Clarks Cr 10.0027	Clarks Crk Hatchery	1 (0.5%)	0
		Big Soos Cr 09.0072	Soos Creek Hatchery	16 (8.1%)	8
		Point Defiance Net Pens	Point Defiance Net Pens	1 (0.5%)	0
		Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	15 (7.6%)	0
		Clarks Crk Hatchery	Clarks Crk Hatchery	5 (2.5%)	0
		Grovers Cr Hatchery	Grovers Cr Hatchery	28 (14.2%)	28
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	15 (7.6%)	0
		Point Defiance Net Pens	Clarks Crk Hatchery	4 (2%)	0
		Voight Cr 10.0414	Voights Cr Hatchery	4 (2%)	0
	Southern Puget Sound (32%)	Deschutes R 13.0028	Tumwater Falls Hatchery	8 (4.1%)	0
		Minter Cr 15.0048	Minter Cr Hatchery	22 (11.2%)	0
		Chambers Cr 12.0007	Garrison Hatchery	21 (10.7%)	0
Minter Cr 15.0048		Hupp Springs Rearing	1 (0.5%)	0	
Clear Cr 11.0013C		Clear Creek Hatchery	11 (5.6%)	4	
Columbia River	Lower Columbia River (Mouth to Bonneville Dam) (0.5%)	Big Cr (Lwr Col R)	Big Cr Hatchery	1 (0.5%)	0
	Snake River (0.5%)	Big Canyon Accl Pond	Lyons Ferry Hatchery	1 (0.5%)	0
<b>Total</b>				<b>197</b>	<b>49</b>

**Table 5.16** Season-total estimates of Chinook salmon encounters by size/mark-status and total estimates of angler effort, summarized for all seasons to date of the Marine Area 10 summer Chinook MSF. Values may not add up exactly due to rounding error.

Season Dates	Effort (Angler-trips)	Retained Chinook				Released Chinook				Total Encounters
		LM	LU	SM	SU	LM	LU	SM	SU	
Jul 16 - Jul 28, 2007	8,374	1,469	30	70	8	209	497	3,101	723	6,107
Jul 16 - Aug 15, 2008	13,808	1,027	3	4	0	128	510	189	385	2,246
Jul 16 - Aug 31, 2009	23,179	1,505	22	116	0	220	82	2,488	1,017	5,450
Jul 16 - Aug 31, 2010	21,636	2,950	33	37	9	432	1,026	1,024	1,665	7,178
Jul 16 - Aug 31, 2011	27,753	2,548	14	94	14	372	1,872	964	694	6,573
Jul 16 - Aug 19, 2012	17,823	2,976	17	88	17	443	377	6,343	1,950	12,212
Jul 16 - Aug 18, 2013	27,317	3,434	6	77	17	512	298	2,149	1,603	8,097
Jul 16 - Aug 7, 2014	11,892	1,063	4	0	4	159	322	1,629	322	3,503
Jul 16 - Aug 15, 2016	9,314	1,032	0	53	0	154	274	1,087	593	3,192
Jul 16 - Aug 15, 2017	13,466	2,072	0	153	0	310	741	4,134	1,112	8,522
Jul 16 - Aug 16, 2018	19,622	4,695	21	155	14	702	1,010	3,733	1,097	11,428
Jul 25 - Aug 16, 2019	16,115	3,202	3	64	14	478	1,032	396	331	5,521
Jul 16 - Aug 31, 2020	28,880	1,375	6	135	28	205	1,123	4,079	2,079	9,029
Jul 16 - Aug 21, 2021	22,900	3,268	25	199	57	488	1,094	9,791	3,220	18,143
Jul 14 - Aug 31, 2022	30,594	4,100	12	140	8	613	1,046	2,938	2,589	11,446
Jul 13 - Aug 20, 2023	24,447	3,153	21	228	14	471	1,462	6,581	2,512	14,442
Jul 18, - Aug 12, 2024	16,701	3,327	16	111	4	497	1,258	3,027	1,957	10,197
Jul 17 - Aug 23, 2025	15,510	3,107	5	43	4	464	1,066	790	710	6,189

## 6) Marine Area 11 June Summer Mark-Selective Chinook Fishery

The Washington Department of Fish and Wildlife (WDFW) implemented the first of two Chinook MSF in Marine Area 11 as a series of short openers in June on June 4-7 and June 11-14. Due to low catch rates during those openers, it reopened at 7 days/week on June 18-30, 2025. WDFW's Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, a Full Murthy design, in Marine Area 11 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included dockside creel sampling and collection of voluntary salmon trip reports (STRs) from the angling public. The fishery controls for the entire summer of Marine Area 11 were total catch (1,423), sublegal encounters (1,601), and unmarked encounters (818). **Table 6.2** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section, we present results from our monitoring activities during the Marine Area 11 summer Chinook MSF.

**Table 6.1** Fishery dates and fishery retention status of salmon in the 2025 June summer Chinook salmon MSF in Marine Area 11.

Start Date	End Date	Fishery Status	Days
4-Jun	7-Jun	Open	4
8-Jun	10-Jun	Closed	3
11-Jun	14-Jun	Open	4
15-Jun	17-Jun	Closed	3
18-Jun	30-Jun	Open	13
Total days open			21

**Table 6.2** Sampling/estimation details on target parameters associated with the overall Marine Area 11 June summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	One week	Within days, estimates were produced by day-type strata (weekday/weekend). Each week we sampled every Friday, Saturday, and Sunday, and we randomly selected n=2 out of N=4 weekdays (Monday-Thursday) for sampling.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 6.10</b> ).
On-the-water Surveys	Proportion of total angler effort that uses sample-frame sites (i.e., site “size measures”) versus out-of-frame sites.	Total on-water boat and angler counts at assumed peak effort time interval (instantaneous count); spatial distribution of recreational fishing boats in the area.	Boats and anglers	Month	A total of 7 boat surveys (3 weekday and 4 weekend) were conducted during the one-month fishery.
Test Fishing	Size (legal/sublegal) and mark-status composition (marked, unmarked) of encountered Chinook salmon	Chinook salmon length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook salmon encounters	Fish encounter	Season	Test fishery data were only used to estimate the size/mark-status proportions (LM = 53.7%; LU% = 17.1%; SM% = 19.5%; SU% = 9.8% <b>Table 6.13</b> ) needed to produce encounter and mortality estimates (CV = 0.15).
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Encounter data for non-Chinook salmon species (e.g., Coho salmon) that the angler may record on the STR form	Fish encounter	Season	11 STRs were returned during this fishery ( <b>Table 6.11</b> ). Because TF data met sample size requirements of CV < 0.20, STRs were not needed to produce encounter and mortality estimates.
Overall Fishery Impacts Estimation	Total Chinook salmon encounters and mortalities by size/mark-status group	Ratios of encounters and mortalities per kept Chinook salmon	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered. Only one tag has been processed for this fishery at the time this report was written.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

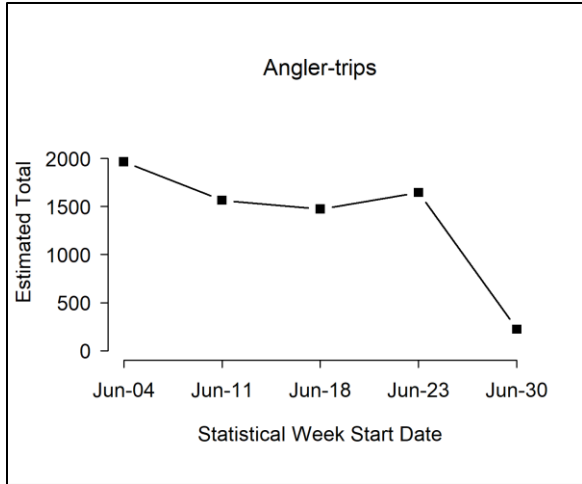
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 6.3** Estimates of total fishing effort and total salmon catch (harvest and releases) during the June summer Chinook MSF in Marine Area 11. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

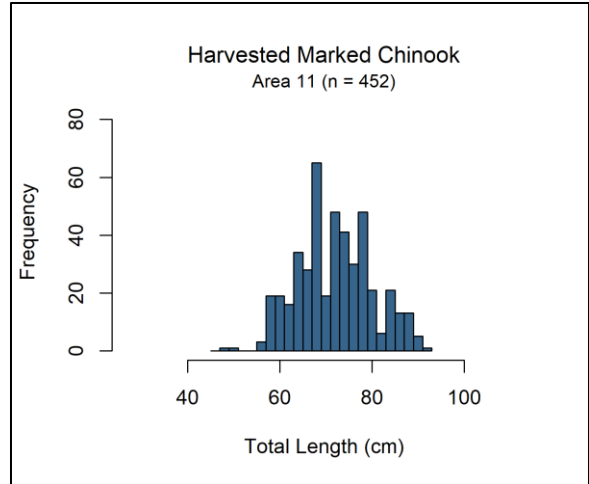
Month	Stat Week	Start Date	End Date	Est. Effort		Est. Retained Chinook		Est. Released Chinook		Est. Total Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
<b>June</b>	23	4-Jun	7-Jun	1,060	1,965	465	0	261	266	992
	24	11-Jun	14-Jun	882	1,564	226	0	127	130	483
	25	18-Jun	22-Jun	827	1,474	144	0	80	82	306
	26	23-Jun	29-Jun	903	1,645	67	0	38	38	143
	27	30-Jun	30-Jun	135	224	11	0	6	7	25
<b>Total:</b>				<b>3,807</b>	<b>6,872</b>	<b>914</b>	<b>0</b>	<b>512</b>	<b>523</b>	<b>1,949</b>
<b>Variance:</b>				6,984	22,138	486	0	65,626	24,575	84,243
<b>SE:</b>				84	149	22	0	256	157	290
<b>CV (%):</b>				2	2	2	0	50	30	15
<b>95% CI:</b>				3,643 - 3,971	6,581 - 7,164	871 - 957	0 - 0	10 - 1,014	216 - 830	1,380 - 2,518

**Table 6.4** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the June summer Chinook MSF in Marine Area 11.

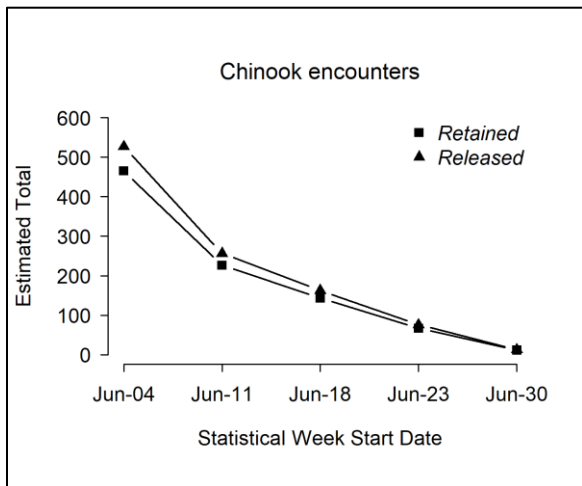
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	450	2	452
Unmarked	0	0	0
<b>Total</b>	<b>450</b>	<b>2</b>	<b>452</b>



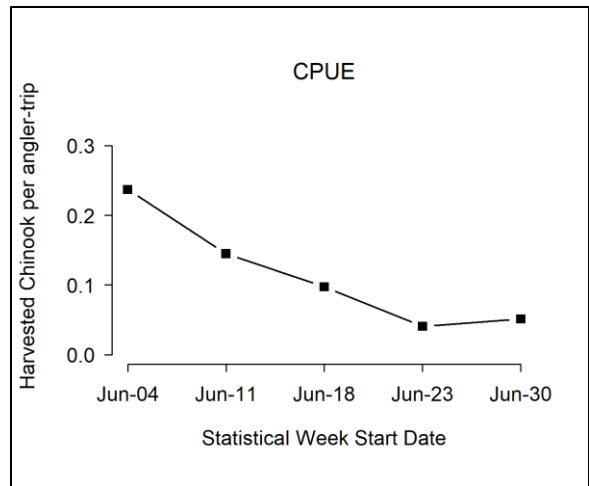
**Figure 6.1** Temporal patterns in fishing effort during the June summer Chinook MSF in Marine Area 11.



**Figure 6.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the June -summer Chinook MSF in Marine Area 11. Note: displayed values are observations where lengths are taken.



**Figure 6.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the June summer Chinook MSF in Marine Area 11.



**Figure 6.4** Temporal patterns in Chinook salmon encounters (retained and released) during the June summer Chinook MSF in Marine Area 11.

**Table 6.5** Comparison of modeled and estimated total Chinook salmon encounters for the summer Chinook MSF in Marine Area 11. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

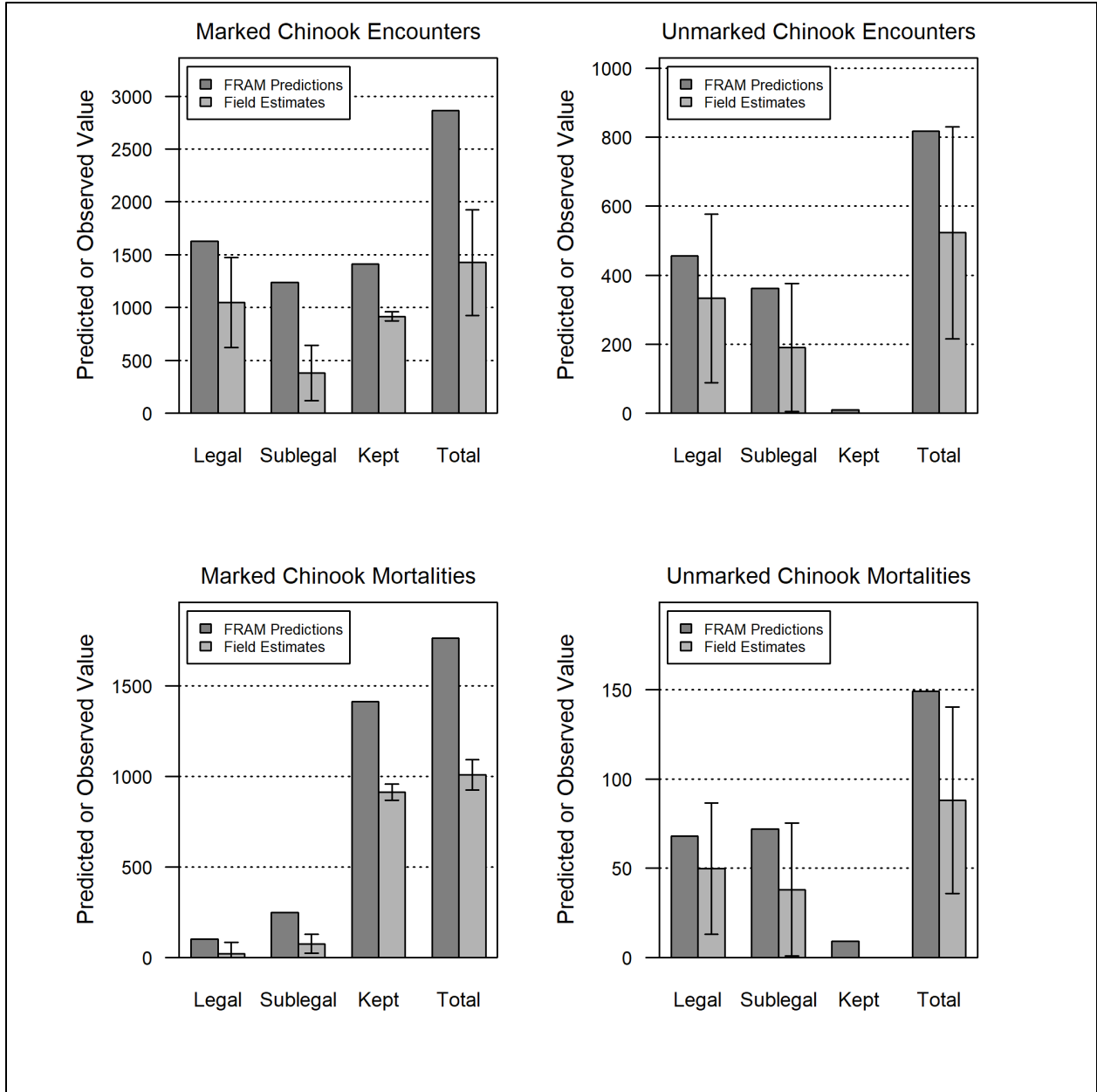
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	818	456	362	9
	AD	2,864	1,625	1,239	1,414
	Total	3,682	2,081	1,601	1,423
	% Marked	78	78	77	99
Estimated (Creel) Encounters	UM	523	333	190	0
	AD	1,426	1,046	380	914
	Total	1,949	1,378	570	914
	% Marked	73	76	67	100

**Table 6.6** Summary of season-wide fishery impact estimates for the summer Chinook MSF in Marine Area 11. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	1,046	910	136	20	930	1,566	40	853 - 1,008	4
Legal UM	333	0	333	50	50	351	19	13 - 87	38
Sublegal AD	380	4	376	75	79	720	27	27 - 132	34
Sublegal UM	190	0	190	38	38	359	19	1 - 75	50
Total	1,949	914	1,035	184	1,097	2,996	55	990 - 1,205	5

**Table 6.7** Comparison of modeled and estimated total Chinook salmon mortalities for the summer Chinook MSF in Marine Area 11. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	149	1,764	1,913	88	1,009	1,097
Released Legal	68	102	170	50	20	70
Released Sublegal	72	248	320	38	75	113
Landed Only	9	1,414	1,423	0	914	914



**Figure 6.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the summer Chinook MSF in Marine Area 11. Error bars represent approximate 95% confidence intervals for field estimates.

**Table 6.8** Summary of the total number of anglers intercepted during on-the-water surveys conducted for the June summer Chinook MSF in Marine Area 11. Sites in bold represent those included in the dockside sample frame.

Site Name	Weekday Anglers	Season Total (unadj.) Size Measure	Weekend Anglers	Season Total (unadj.) Size Measure
Arcadia Ramp	0	0.0000	1	0.0014
<b>Armeni Public Ramp</b>	<b>0</b>	<b>0.0000</b>	<b>4</b>	<b>0.0056</b>
Boston Harbor Ramp/Marina	2	0.0067	3	0.0042
Breakwater Marina	14	0.0470	25	0.0349
Browns Point Ramp	1	0.0034	1	0.0014
Chambers Bay Boat Owners' Assoc	0	0.0000	3	0.0042
Commencement Bay Marina Services	8	0.0268	15	0.0209
Dash Point Shore	0	0.0000	1	0.0014
Day Island Marina	4	0.0134	3	0.0042
Day Island Yacht Club	2	0.0067	1	0.0014
Des Moines Marina	10	0.0336	13	0.0181
Des Moines Marina	4	0.0134	8	0.0112
Dockton Ramp, Vashon Is	0	0.0000	1	0.0014
Eagle Harbor Waterfront Park	0	0.0000	4	0.0056
Edmonds Dry Storage	0	0.0000	3	0.0042
Elliott Bay Marina	0	0.0000	4	0.0056
Everett Ramp (formerly Norton Street Ramp)	0	0.0000	2	0.0028
Foss Tug Dock	0	0.0000	1	0.0014
Fox Island Public Ramp	0	0.0000	3	0.0042
Gate Marina	0	0.0000	2	0.0028
Gig Harbor Marina	11	0.0369	25	0.0349
<b>Gig Harbor Ramp</b>	<b>18</b>	<b>0.0604</b>	<b>38</b>	<b>0.0530</b>
Grapeview Public Ramp	0	0.0000	2	0.0028
Home Public Ramp	2	0.0067	0	0.0000
Longbranch Marina	0	0.0000	1	0.0014
Manchester Public Ramp	0	0.0000	12	0.0167
Narrows Marina	16	0.0537	39	0.0544
Narrows Ramp	0	0.0000	1	0.0014
Olalla Public Ramp	0	0.0000	2	0.0028
Point Defiance Beach	3	0.0101	6	0.0084
<b>Point Defiance Boathouse</b>	<b>38</b>	<b>0.1275</b>	<b>81</b>	<b>0.1130</b>
<b>Point Defiance Public Ramp</b>	<b>124</b>	<b>0.4161</b>	<b>327</b>	<b>0.4561</b>
Private	22	0.0738	27	0.0377
Redondo Ramp	11	0.0369	39	0.0544
Steilacoom Marina	1	0.0034	0	0.0000
Steilacoom Public Ramp	0	0.0000	2	0.0028
Tacoma Yacht Club	0	0.0000	3	0.0042
Tyee Marina/Ramp	7	0.0235	14	0.0195
<b>Total Anglers</b>	<b>298</b>	<b>1</b>	<b>717</b>	<b>1</b>

**Table 6.9** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the June summer Chinook MSF in Marine Area 11. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
June	23 - 27	4 Jun - 30 Jun	914	0	914	452	0	452	49.50%
<b>Season Total</b>			<b>914</b>	<b>0</b>	<b>914</b>	<b>452</b>	<b>0</b>	<b>452</b>	<b>49.50%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the June summer Chinook MSF in Marine Area 11 (creel estimates and fish sampled as part of baseline sampling).

**Table 6.10** Dockside encounters (retained and released) by size-mark category during the June summer Chinook salmon MSF in Marine Area 11. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	457	65	43	37
Bias-corrected size/mark composition	67.56%	10.80%	7.14%	14.50%
Variance	0.0004679	0.0001925	0.0001816	0.0001581

**Table 6.11** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 June summer Chinook salmon MSF in Marine Area 11, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

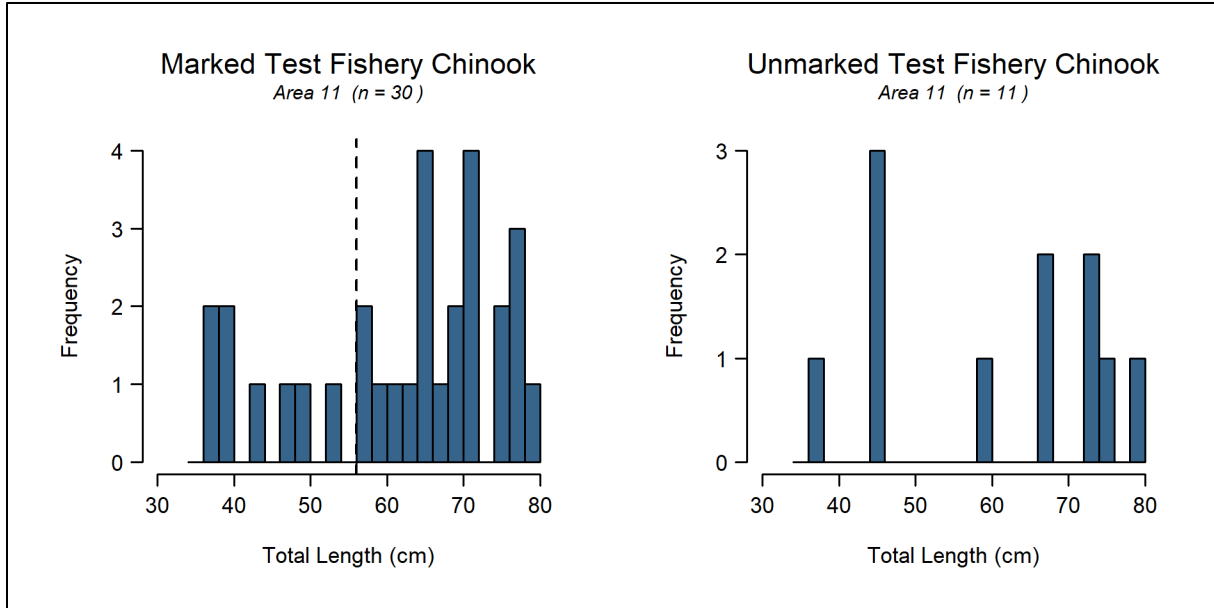
Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	11 1-trip STRs	12	3	2	0	17	0.82	0.8
<b>Size/mark-status composition:</b>		0.71	0.18	0.12	0.00			
<b>Variance:</b>		(0.0130)	(0.0091)	(0.0065)	(0.0000)			

**Table 6.12** Fishery-total estimates of retained and released salmon (other than Chinook) for the June summer Chinook MSF in Marine Area 11. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Start Date	End Date	Retained Salmon		Released Salmon				
			Coho AD	Coho UM	Coho AD	Coho UM	Coho UK	Cutthroat	Unknown
23	4-Jun	7-Jun	5	0	0	0	0	0	2
24	11-Jun	14-Jun	4	2	0	4	0	44	2
25	18-Jun	22-Jun	4	5	0	0	0	0	9
26	23-Jun	29-Jun	4	6	4	0	5	5	13
27	30-Jun	30-Jun	0	0	0	0	0	0	5
<b>Season Total:</b>			<b>16</b>	<b>13</b>	<b>4</b>	<b>4</b>	<b>5</b>	<b>49</b>	<b>31</b>
<b>Variance:</b>			2	11	7	2	7	96	33
<b>Standard Error:</b>			2	3	3	1	3	10	6
<b>CV (%):</b>			10	26	72	36	49	20	19
<b>95% CI:</b>			13 - 19	6 - 20	0 - 9	1 - 7	0 - 11	30 - 69	20 - 42

**Table 6.13** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the June summer Chinook salmon MSF in Marine Area 11. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
23	4	24.33	11	3	0	2	16
24	2	6.82	1	0	1	0	2
25	8	38.72	5	0	3	0	8
26	8	64.30	5	4	1	0	10
27	6	28.18	0	0	3	2	5
<b>Total</b>	<b>28</b>	<b>162.35</b>	<b>22</b>	<b>7</b>	<b>8</b>	<b>4</b>	<b>41</b>
<b>Size/mark-status composition:</b>			0.537	0.171	0.195	0.098	
<b>Variance:</b>			(0.0062)	(0.0035)	(0.0039)	(0.0022)	
<b>Legal size mark rate:</b>			0.76				
<b>Overall mark rate:</b>			0.73				



**Figure 6.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the June summer Chinook salmon MSF in Marine Area 11. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 6.14** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the June summer Chinook MSF in Marine Area 11. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Bernie Gobin Hatch	2021	1	2.1	2.16	2.1	0.2	0.022	0.15
George Adams Hatchery	2021	1	2.1	2.16	2.1	0.2	0.022	0.15
Grovers Cr Hatchery	2022	2	4.1	4.33	3.9	0.4	0.039	0.28
Soos Creek Hatchery	2021	3	6.2	6.49	6.6	0.7	0.075	0.48
Wallace R Hatchery	2022	1	2.1	2.16	2.1	0.2	0.022	0.15
<b>Total</b>		<b>8</b>	<b>16.6</b>	<b>17.31</b>	<b>16.8</b>	<b>1.7</b>	<b>0.18</b>	<b>1.2</b>

**Table 6.15** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 June summer Chinook MSF in Marine Area 11. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (8.8%)	R-Chilliwack R	H-Chilliwack River H	5 (8.8%)	0
WA	Hood Canal (1.8%)	Purdy Cr 16.0005	George Adams Hatchery	1 (1.8%)	1
	Northern Puget Sound (10.5%)	Tulalip Cr 07.0001	Bernie Gobin Hatch	3 (5.3%)	1
		Wallace R 07.0940	Wallace R Hatchery	1 (1.8%)	1
		Whitehorse Springs	Whitehorse Pond	2 (3.5%)	0
		Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	7 (12.3%)	0
	Mid Puget Sound (42.1%)	Clarks Crk Hatchery	Clarks Crk Hatchery	2 (3.5%)	0
		Big Soos Cr 09.0072	Soos Creek Hatchery	3 (5.3%)	3
		Point Defiance Net Pens	Clarks Crk Hatchery	2 (3.5%)	0
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	3 (5.3%)	0
		Grovers Cr Hatchery	Grovers Cr Hatchery	2 (3.5%)	2
		Point Defiance Net Pens	Point Defiance Net Pens	1 (1.8%)	0
		Voight Cr 10.0414	Voights Cr Hatchery	4 (7%)	0
		Southern Puget Sound (36.8%)	Deschutes R 13.0028	Tumwater Falls Hatchery	5 (8.8%)
	Chambers Cr 12.0007		Garrison Hatchery	2 (3.5%)	0
	Clear Cr 11.0013C		Clear Creek Hatchery	1 (1.8%)	0
	Minter Cr 15.0048		Minter Cr Hatchery	13 (22.8%)	0
<b>Total</b>				<b>57</b>	<b>8</b>

## 7) Marine Area 11 July-August Summer Mark-Selective Chinook Fishery

The Washington Department of Fish and Wildlife (WDFW) implemented a second summer Chinook MSF in Marine Area 11 in July on July 17-19. Due to low catch rates during the first three days, it reopened to 7 days/week from July 24 – August 24, 2025. The fishery closed early, on August 24, when the sublegal-size encounters and unmarked encounters exceeded pre-season FRAM predicted values. WDFW’s Puget Sound Sampling Unit (PSSU) implemented an intensive monitoring program, a Full Murthy design, in Marine Area 11 throughout the season to collect the data needed to estimate key parameters characterizing the fishery and its impacts on unmarked salmon. Sampling activities included dockside creel sampling and collection of voluntary salmon trip reports (STRs) from the angling public. The fishery controls for the entire summer of Marine Area 11 were total catch (3,379), sublegal encounters (3,675), and unmarked encounters (1,771). **Table 6.2** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section, we present results from our monitoring activities during the Marine Area 11 summer Chinook MSF.

**Table 7.1** Fishery dates and fishery retention status of salmon in the 2025 July-August Chinook salmon MSF in Marine Area 11.

Start Date	End Date	Fishery Status	Days
17-Jul	19-Jul	Open	3
20-Jul	23-Jul	Closed	4
24-Jul	24-Aug	Open	32
Total days open			35

**Table 7.2** Sampling/estimation details on target parameters associated with the overall Marine Area 11 July-August summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Creel Sampling	Fishing effort (boat & angler trips); kept and released fish	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	One week	Within days, estimates were produced by day-type strata (weekday/weekend). Each week we sampled every Friday, Saturday, and Sunday, and we randomly selected n=2 out of N=4 weekdays (Monday-Thursday) for sampling.
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data were not used for estimation of Chinook encounters for this fishery ( <b>Table 7.10</b> ).
On-the-water Surveys	Proportion of total angler effort that uses sample-frame sites (i.e., site “size measures”) versus out-of-frame sites.	Total on-water boat and angler counts at assumed peak effort time interval (instantaneous count); spatial distribution of recreational fishing boats in the area.	Boats and anglers	Month	A total of 8 boat surveys (4 weekday and 4 weekend) were conducted during the two-month fishery.
Test Fishing	Size (legal/sublegal) and mark-status composition (marked, unmarked) of encountered Chinook salmon	Chinook salmon length, age, and DNA-based <sup>2</sup> stock composition; species composition of non-Chinook salmon encounters	Fish encounter	Season	Test fishery data were only used to estimate the size/mark-status proportions (LM = 29.7%; LU% = 14.1%; SM% = 37.5%; SU% = 18.8% <b>Table 7.13</b> ) needed to produce encounter and mortality estimates (CV = 0.19).
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Encounter data for non-Chinook salmon species (e.g., Coho salmon) that the angler may record on the STR form	Fish encounter	Season	15 STRs were returned during this fishery ( <b>Table 7.11</b> ). Because TF data met sample size requirements of CV < 0.20, STRs were not needed to produce encounter and mortality estimates.
Overall Fishery Impacts Estimation	Total Chinook salmon encounters and mortalities by size/mark-status group	Ratios of encounters and mortalities per kept Chinook salmon	N/A	Season	Estimated on a monthly time step but considered at the season-total level.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	The temporal resolution of DIT impacts is constrained by the total number of tags recovered. Only one tag has been processed for this fishery at the time this report was written.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

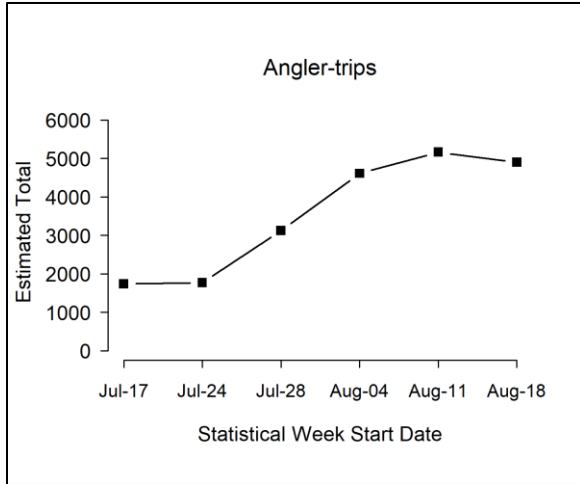
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 7.3** Estimates of total fishing effort and total salmon catch (harvest and releases) during the July-August summer Chinook MSF in Marine Area 11. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

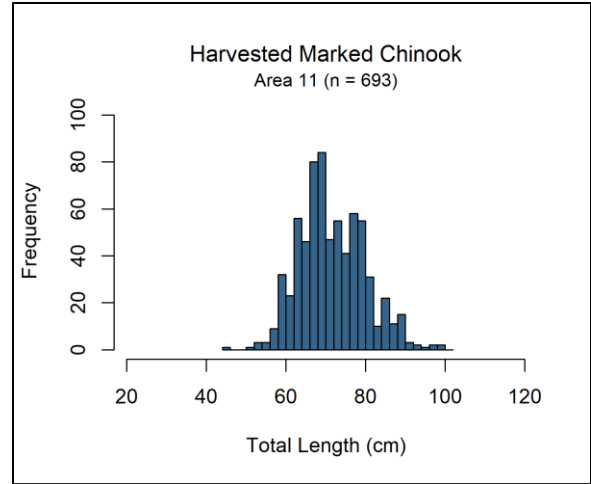
Month	Stat Week	Start Date	End Date	Est. Effort		Est. Retained Chinook		Est. Released Chinook		Est. Total Chinook Encounters
				Boats	Anglers	AD	UM	AD	UM	
July	29	17-Jul	19-Jul	987	1,740	247	0	389	311	947
	30	24-Jul	27-Jul	929	1,768	160	0	251	201	612
	31	28-Jul	3-Aug	1,651	3,128	314	2	493	392	1,201
Aug	32	4-Aug	10-Aug	2,328	4,612	547	0	860	687	2,095
	33	11-Aug	17-Aug	2,391	5,166	382	2	601	477	1,463
	34	18-Aug	24-Aug	2,338	4,902	405	0	637	509	1,551
<b>Subtotal:</b>				<b>10,624</b>	<b>21,317</b>	<b>2,056</b>	<b>4</b>	<b>3,231</b>	<b>2,578</b>	<b>7,869</b>
RCAW Derby				39	70	16	0	25	20	61
South King Co. PSA Derby				61	139	51	0	80	64	195
Gig Harbor Salmon Derby				68	150	40	0	63	50	153
<b>Total</b>				<b>10,792</b>	<b>21,676</b>	<b>2,163</b>	<b>4</b>	<b>3,399</b>	<b>2,712</b>	<b>8,278</b>
<b>Variance:</b>				27,802	151,623	23,866	2	1,154,397	445,252	2,926,795
<b>SE:</b>				167	389	154	1	1,074	667	1,711
<b>CV (%):</b>				2	2	7	28	32	25	21
<b>95% CI:</b>				10,465 - 11,119	20,913 - 22,439	1,860 - 2,466	2 - 7	1,293 - 5,505	1,404 - 4,020	4,925 - 11,631

**Table 7.4** Number of total length samples collected from retained Chinook salmon collected during dockside angler interviews in the July-August summer Chinook MSF in Marine Area 11.

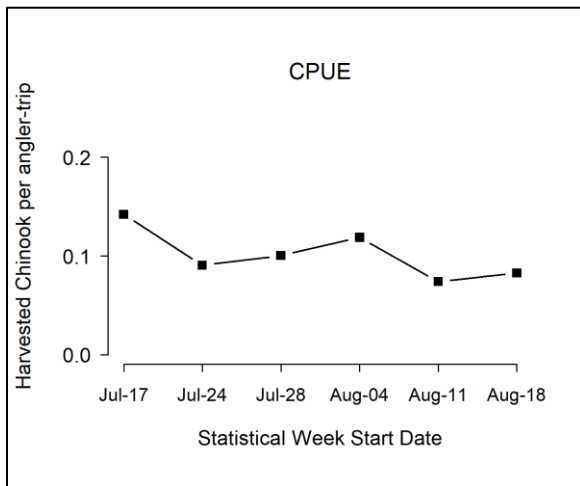
Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	685	8	693
Unmarked	1	1	2
<b>Total</b>	<b>686</b>	<b>9</b>	<b>695</b>



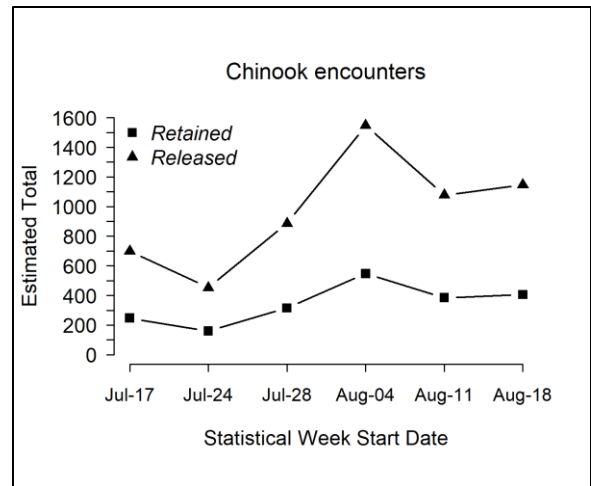
**Figure 7.1** Temporal patterns in fishing effort during the July-August summer Chinook MSF in Marine Area 11.



**Figure 7.3** Length-frequency distribution of retained marked Chinook sampled in dockside angler interviews during the July-August summer Chinook MSF in Marine Area 11. Note: displayed values are observations where lengths are taken.



**Figure 7.2** Temporal patterns in CPUE (landed marked Chinook per angler trip) during the July-August summer Chinook MSF in Marine Area 11.



**Figure 7.4** Temporal patterns in Chinook salmon encounters (retained and released) during the July-August summer Chinook MSF in Marine Area 11.

**Table 7.5** Comparison of modeled and estimated total Chinook salmon encounters for the July-August summer Chinook MSF in Marine Area 11. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

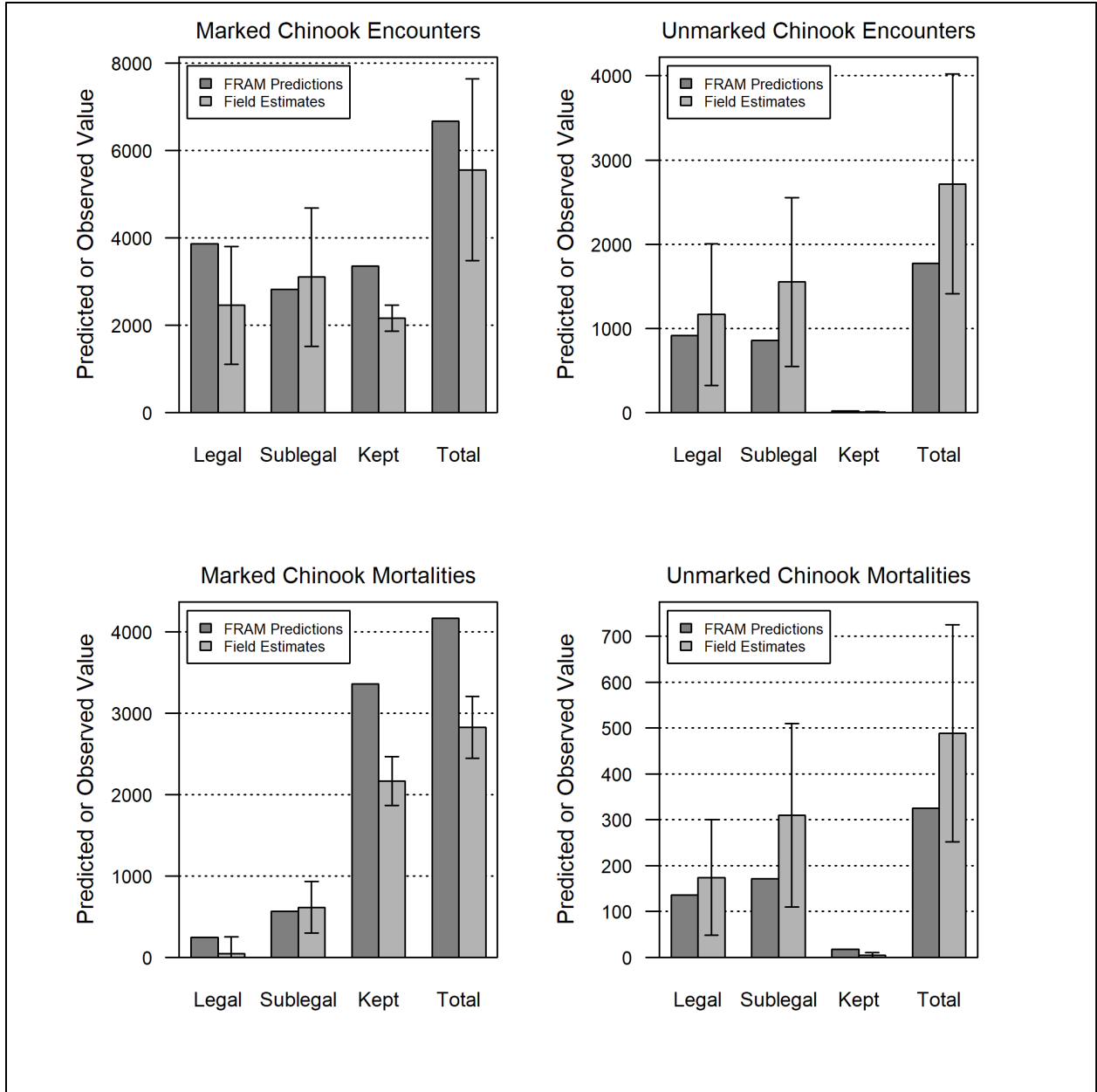
Data Source	Group	Total Encounters	Legal	Sublegal	Landed Only
FRAM Encounters	UM	1,771	914	857	18
	AD	6,681	3,863	2,818	3,361
	Total	8,452	4,777	3,675	3,379
	% Marked	79	81	77	99
Estimated (Creel) Encounters	UM	2,716	1164	1,552	4
	AD	5,562	2,458	3,104	2,163
	Total	8,278	3,622	4,656	2,167
	% Marked	67	68	67	100

**Table 7.6** Summary of season-wide fishery impact estimates for the July-August summer Chinook MSF in Marine Area 11. Release mortality rate = 0.15 for legal fish and 0.20 for sublegal fish. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Size/mark group	Encounters	Retained	Released	Release Mortality	Total Mortality	Var	SE	95% CI	CV (%)
Legal AD	2,458	2,138	319	48	2,186	34,608	186	1,821 - 2,551	9
Legal UM	1,164	2	1,162	174	176	4,138	64	50 - 303	36
Sublegal AD	3,104	25	3,079	616	641	26,301	162	323 - 959	25
Sublegal UM	1,552	2	1,550	310	312	10,466	102	112 - 513	33
Total	8,278	2,167	6,111	1,148	3,315	75,513	275	2,777 - 3,854	8

**Table 7.7** Comparison of modeled and estimated total Chinook salmon mortalities for the July-August summer Chinook MSF in Marine Area 11. Values may not add up perfectly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Mortality Category	FRAM Chinook Mortalities			Estimated Chinook Mortalities		
	UM	AD	Total	UM	AD	Total
Total (Landed + Released)	325	4,168	4,493	489	2,827	3,315
Released Legal	136	243	379	174	48	222
Released Sublegal	171	564	735	310	616	926
Landed Only	18	3,361	3,379	4	2,163	2,167



**Figure 7.5** Comparison of modeled and estimated total Chinook salmon encounters and mortalities for the July-August summer Chinook MSF in Marine Area 11. Error bars represent approximate 95% confidence intervals for field estimates.

**Table 7.8** Summary of the total number of anglers intercepted during on-the-water surveys conducted for the July-August summer Chinook MSF in Marine Area 11. Sites in bold represent those included in the dockside sample frame.

Site Name	Weekday Anglers	Season Total (unadj.) Size Measure	Weekend Anglers	Season Total (unadj.) Size Measure
Anacortes Marina	0	0.0000	2	0.0020
<b>Armeni Public Ramp</b>	<b>3</b>	<b>0.0049</b>	<b>7</b>	<b>0.0068</b>
Bayside Marina/Drystack	0	0.0000	3	0.0029
Boston Harbor Ramp/Marina	0	0.0000	2	0.0020
Breakwater Marina	19	0.0313	45	0.0440
Browns Point Ramp	6	0.0099	2	0.0020
Browns Point Shore	0	0.0000	10	0.0098
Commencement Bay Marina Services	24	0.0395	30	0.0294
Dash Point Shore	21	0.0346	25	0.0245
Day Island Marina	3	0.0049	3	0.0029
Des Moines Marina	13	0.0214	59	0.0577
Des Moines Marina	0	0.0000	4	0.0039
Dockton Ramp, Vashon Is	3	0.0049	5	0.0049
East Bay Marina/Ramp	4	0.0066	8	0.0078
Elliott Bay Marina	2	0.0033	3	0.0029
Fox Island Public Ramp	4	0.0066	8	0.0078
Gig Harbor Marina	12	0.0198	28	0.0274
<b>Gig Harbor Ramp</b>	<b>45</b>	<b>0.0741</b>	<b>48</b>	<b>0.0470</b>
Manchester Public Ramp	2	0.0033	7	0.0068
Narrows Marina	24	0.0395	29	0.0284
Narrows Ramp	0	0.0000	4	0.0039
Olalla Public Ramp	0	0.0000	1	0.0010
Point Defiance Beach	2	0.0033	0	0.0000
<b>Point Defiance Boathouse</b>	<b>74</b>	<b>0.1219</b>	<b>104</b>	<b>0.1018</b>
<b>Point Defiance Public Ramp</b>	<b>229</b>	<b>0.3773</b>	<b>381</b>	<b>0.3728</b>
Point Southworth	2	0.0033	0	0.0000
Port Orchard Marina	2	0.0033	0	0.0000
Port Orchard Public Ramp	2	0.0033	2	0.0020
Private	30	0.0494	43	0.0421
Quartermaster Marina	0	0.0000	9	0.0088
Redondo Ramp	56	0.0923	104	0.1018
Shilshole Public Ramp	0	0.0000	2	0.0020
Steilacoom Marina	0	0.0000	2	0.0020
Steilacoom Public Ramp	1	0.0016	0	0.0000
Tacoma Yacht Club	2	0.0033	9	0.0088
Tyee Marina/Ramp	17	0.0280	20	0.0196
West Bay Marina	0	0.0000	1	0.0010
Wollochet Bay Public Ramp	3	0.0049	6	0.0059
Zittels Dock	0	0.0000	2	0.0020
Zittels Marina	2	0.0033	4	0.0039
<b>Total Anglers</b>	<b>607</b>	<b>1</b>	<b>1022</b>	<b>1</b>

**Table 7.9** Monthly sample rates (Total retained Chinook sampled<sup>1</sup> / Estimated retained Chinook) for the July-August summer Chinook MSF in Marine Area 11. AD = marked (adipose-clipped), UM = unmarked.

Time period			Estimated Retained Chinook			Number of Chinook sampled			Sample Rate
Month	Stat Weeks	Dates	AD	UM	Total	AD	UM	Total	
July	29 - 31	17 Jul - 3 Aug	721	2	723	308	1	309	42.70%
Aug	32 - 34	4 Aug - 24 Aug	1,335	2	1,337	388	1	389	29.10%
<b>Season Total</b>			<b>2,056</b>	<b>4</b>	<b>2,060</b>	<b>696</b>	<b>2</b>	<b>698</b>	<b>33.90%</b>

<sup>1</sup> Number of retained Chinook salmon sampled includes all retained Chinook salmon inspected for CWTs, from all sites sampled during the July-August summer Chinook MSF in Marine Area 11 (creel estimates and fish sampled as part of baseline sampling).

**Table 7.10** Dockside encounters (retained and released) by size-mark category during the July-August summer Chinook salmon MSF in Marine Area 11. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	699	142	147	62
Bias-corrected size/mark composition	59.25%	13.52%	14.00%	13.23%
Variance	0.0003226	0.0001905	0.0001747	8.851E-05

**Table 7.11** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 July-August summer Chinook salmon MSF in Marine Area 11, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

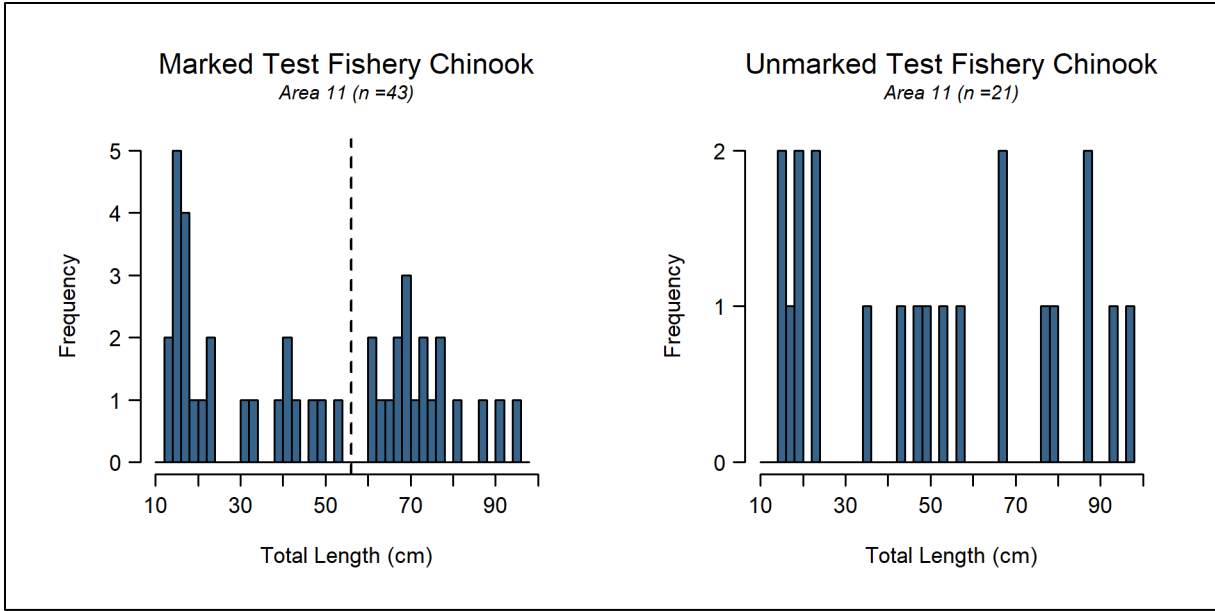
Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	15 1-trip STRs	19	6	3	0	28	0.79	0.76
<b>Size/mark-status composition:</b>		0.68	0.21	0.11	0.00			
<b>Variance:</b>		(0.0081)	(0.0062)	(0.0035)	(0.0000)			

**Table 7.12** Fishery-total estimates of retained and released salmon (other than Chinook) for the July-August summer Chinook MSF in Marine Area 11. Values may not add up exactly due to rounding error. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Start Date	End Date	Retained Salmon					Released Salmon						
			Coho AD	Coho UM	Coho UK	Pink	Sockeye	Coho AD	Coho UM	Coho UK	Chum	Pink	Cutthroat	Unknown
29	17-Jul	19-Jul	43	8	0	50	0	17	4	4	0	8	0	57
30	24-Jul	27-Jul	20	12	0	106	0	4	2	4	0	30	0	92
31	28-Jul	3-Aug	54	26	2	954	4	36	13	12	4	280	16	253
32	4-Aug	10-Aug	29	22	0	1,899	0	30	13	254	0	508	0	334
33	11-Aug	17-Aug	53	10	0	5,915	0	10	15	15	2	1,216	0	300
34	18-Aug	24-Aug	91	43	2	4,926	0	40	26	50	0	1,470	0	330
<b>Season Total:</b>			<b>289</b>	<b>122</b>	<b>4</b>	<b>13,851</b>	<b>4</b>	<b>137</b>	<b>73</b>	<b>339</b>	<b>6</b>	<b>3,512</b>	<b>16</b>	<b>1,366</b>
<b>Variance:</b>			171	138	0	242,107	8	377	72	17,930	1	47,656	136	6,638
<b>Standard Error:</b>			13	12	1	492	3	19	8	134	1	218	12	81
<b>CV (%):</b>			5	10	14	4	73	14	12	40	15	6	73	6
<b>95% CI:</b>			264 - 315	99 - 145	3 - 5	12,887 - 14,815	0 - 10	99 - 175	56 - 90	76 - 601	4 - 8	3,084 - 3,940	0 - 39	1,206 - 1,525

**Table 7.13** Composition of test fishery Chinook salmon encounters and associated mark-rate and size/mark-status proportion estimates for the July-August summer Chinook salmon MSF in Marine Area 11. AD = marked (adipose-clipped), UM = unmarked.

Stat Week	Fishing Effort		Legal		Sublegal		Total
	Trips	Hours Fished	AD	UM	AD	UM	
29	6	43.14	6	2	5	0	13
30	2	31.21	8	2	2	1	13
31	7	38.12	1	2	3	2	8
32	11	21.91	3	0	8	1	12
33	2	23.91	0	0	3	3	6
34	4	25.16	1	3	3	5	12
<b>Total</b>	<b>32</b>	<b>183.45</b>	<b>19</b>	<b>9</b>	<b>24</b>	<b>12</b>	<b>64</b>
<b>Size/mark-status composition:</b>			0.297	0.141	0.375	0.188	
<b>Variance:</b>			(0.0033)	(0.0019)	(0.0037)	(0.0024)	
<b>Legal size mark rate:</b>			0.68				
<b>Overall mark rate:</b>			0.67				



**Figure 7.6** Length-frequency distributions of marked (*left panel*) and unmarked (*right panel*) Chinook salmon encountered by test fishers during the July-August summer Chinook salmon MSF in Marine Area 11. The vertical dashed line in the left panel corresponds to the legal-size limit (22 in or 56 cm).

**Table 7.14** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the July-August summer Chinook MSF in Marine Area 11. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Clear Creek Hatchery	2021	1	3	5.89	3	0.3	0.061	0.25
George Adams Hatchery	2022	1	3	5.89	3	0.3	0.061	0.25
Grovers Cr Hatchery	2022	2	6	11.78	5.6	0.6	0.106	0.46
Wallace R Hatchery	2022	1	3	5.89	3	0.3	0.061	0.25
<b>Total</b>		<b>5</b>	<b>15</b>	<b>29.45</b>	<b>14.6</b>	<b>1.5</b>	<b>0.289</b>	<b>1.21</b>

**Table 7.15** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 July-August summer Chinook MSF in Marine Area 11. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (2.2%)	R-Chilliwack R	H-Chilliwack River H	1 (2.2%)	0
	Western Vancouver Island (2.2%)	R-Sooke Hb	H-Sooke Harbour Seapen	1 (2.2%)	0
	Georgia Strait (2.2%)	R-Sandy Cv	H-Sandy Cove Seapen	1 (2.2%)	0
WA	Hood Canal (2.2%)	Purdy Cr 16.0005	George Adams Hatchery	1 (2.2%)	1
	Northern Puget Sound (13%)	Tulalip Cr 07.0001	Bernie Gobin Hatch	1 (2.2%)	0
		Wallace R 07.0940	Wallace R Hatchery	5 (10.9%)	1
	Mid Puget Sound (52.2%)	Clarks Crk Hatchery	Clarks Crk Hatchery	3 (6.5%)	0
		Grovers Cr Hatchery	Grovers Cr Hatchery	2 (4.3%)	2
		Issaquah Cr 08.0178	Issaquah Hatchery	1 (2.2%)	0
		Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	1 (2.2%)	0
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	5 (10.9%)	0
		Point Defiance Net Pens	Clarks Crk Hatchery	10 (21.7%)	0
		Voight Cr 10.0414	Voights Cr Hatchery	2 (4.3%)	0
	Southern Puget Sound (26.1%)	Deschutes R 13.0028	Tumwater Falls Hatchery	1 (2.2%)	0
		Minter Cr 15.0048	Minter Cr Hatchery	9 (19.6%)	0
		Clear Cr 11.0013C	Clear Creek Hatchery	1 (2.2%)	1
		Kalama Cr 11.0017	Kalama Cr Hatchery	1 (2.2%)	0
<b>Total</b>				<b>46</b>	<b>5</b>

**Table 7.16** Season-total estimates of Chinook salmon encounters by size/mark-status and total estimates of angler effort, summarized for all seasons to date of the Area 11 June-September summer Chinook MSF. Values may not add up exactly due to rounding error.

Season Dates	Effort (Angler-trips)	Retained Chinook				Released Chinook				Total Encounters
		LM	LU	SM	SU	LM	LU	SM	SU	
Jun 1 - Sept 30, 2007	78,958	10,192	74	354	21	1,511	3,015	8,033	2,357	25,558
Jun 1 - Sept 30, 2008	65,728	7,277	18	100	5	1,087	1,999	1,969	248	12,703
Jun 1 - Sept 30, 2009	80,157	3,149	20	117	17	470	1,269	3,820	3,302	12,164
Jun 1 - Sept 30, 2010	54,594	3,883	64	27	0	580	1,105	900	405	6,965
Jun 1 - Sept 30, 2011	69,919	2,559	9	77	12	382	2,120	1,932	1,579	8,670
Jun 1 - Sept 30, 2012	56,065	4,894	57	72	14	731	2,665	2,649	1,157	12,240
Jun 1 - Sept 30, 2013	64,509	3,056	35	55	0	457	1,289	1,214	669	6,774
Jun 1 - Sept 30, 2014	39,426	2,912	20	11	0	435	1,585	2,142	861	7,966
Jun 1 - Sept 30, 2015	40,858	1,447	10	41	3	216	748	2,491	1,599	6,556
Jun 24 - Aug 19, 2016	13,766	1,437	4	40	0	215	443	1,359	298	3,794
Jun 1 - Sept 30, 2017	35,899	3,276	20	265	36	489	1,056	2,962	1,685	9,789
Jun 1 - Aug 25, 2018	32,041	5,476	26	164	7	818	2,222	7,929	2,690	19,333
Jul 1 - Aug 25, 2019	22,935	2,574	12	32	0	385	1,174	1,266	520	5,963
Jul 1 - Sep 30, 2020	40,866	2,002	25	100	0	299	677	1,851	234	5,189
Jun 16 - Aug 24, 2021	29,977	3,165	12	104	9	473	1,136	2,576	948	8,424
Jun 1 - Aug 13, 2022	12,697	3,329	11	53	3	497	1,264	1,516	1,076	7,750
Jun 1 - Jul 14, 2023	11,567	1,755	11	40	2	262	1,558	2,985	1,006	7,619
Jun 5 - Sep 30, 2024	37,995	2,954	13	41	7	441	666	2,525	1,578	8,225
Jun 4 - Aug 24, 2025	28,189	2,942	2	28	2	440	1,437	3,303	1,663	9,817

## **8) Marine Area 12 Summer Mark-Selective Chinook Fishery**

The Washington Department of Fish and Wildlife (WDFW) implemented a summer Chinook MSF in the sub-area of Marine Area 12 south of Ayock from July 1 through September 30, 2025. WDFW's Puget Sound Sampling Unit (PSSU) implemented a "Baseline Sampling" program (see WDFW 2012a for details) consisting of dockside angler interviews with catch sampling along with efforts to distribute and collect voluntary salmon trip reports (STRs) from the angling public.

Unlike the other survey designs, Baseline Sampling does not provide a means for generating in-season or immediate post-season estimates of fishery total catch and effort. These estimates will be available approximately one year after the closure of the fishery through the WDFW Catch Record Card (CRC) program. CRC and STR data will be used to estimate total Chinook salmon encounters and mortalities by size and mark-status using the methods provided in Conrad, R., T. Garber, and G. Rose (2020). Draft memo to the co-managers "Assessment of Two Methods for Estimating the Composition of Chinook Encounters Early in the Fishing Season." While these descriptors of MSF impacts are not presented in this document, they will be available at a future time.

**Table 8-1** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section we present results from our monitoring activities during the Marine Area 12 summer Chinook MSF, including relative catch and effort patterns over the course of the season based on the assumption that baseline-sampling observations of these parameters are good indicators of associated fishery-wide trends.

**Table 8.1** Sampling/estimation details on target parameters associated with the overall Marine Area 12 summer mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Angler Interviews (Baseline Sampling)	Observed (in-sample) fishing effort (boat & angler trips); kept and released fish.	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	Week	Observed catch per angler trip and species composition data obtained from baseline sampling will ultimately be combined with Catch Record Card (CRC) data to produce fishery-total estimates at a later time (approximately one year following the fishery).
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data will not be used for estimation of Chinook encounters for this fishery ( <b>Table 8.6</b> ).
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status composition (marked, unmarked) of encountered Chinook	Encounter data for non-Chinook species (e.g., Coho) that the angler may record on the STR form	Fish encounter	Season	38 STRs were turned in during the fishery ( <b>Table 8.7</b> ). With adequate sample size, STR data will be used to estimate encounters and mortalities at a later date.
Overall Fishery Impacts Estimation	Total Chinook encounters and mortalities, by size/mark-status group	Ratios of encounters and mortalities per kept Chinook	N/A	Season	Will be estimated at a later date using the CRC-based retained Chinook estimate, when it becomes available.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	Will be estimated at a later date using the CRC-based retained Chinook estimate, when it becomes available. The temporal resolution of DIT impacts is constrained by the total number of tags recovered. No CWTs have been processed for this area at the time this report was written.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

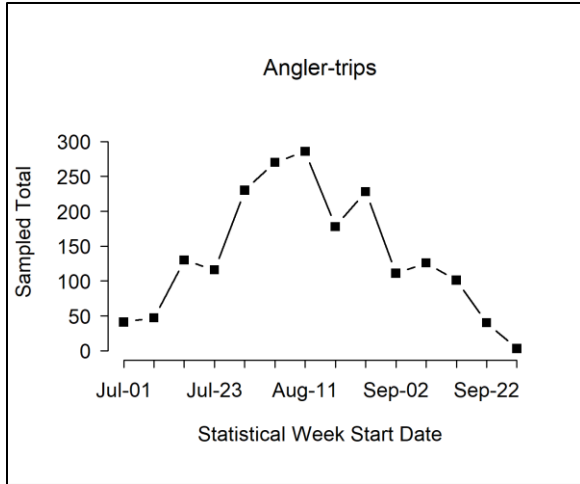
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 8.2** Observations of fishing effort, salmon harvest, and reported salmon releases, by week, for the summer Chinook MSF in Marine Area 12. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total estimates. AD = marked (adipose-clipped), UM = unmarked, UK = unknown mark status.

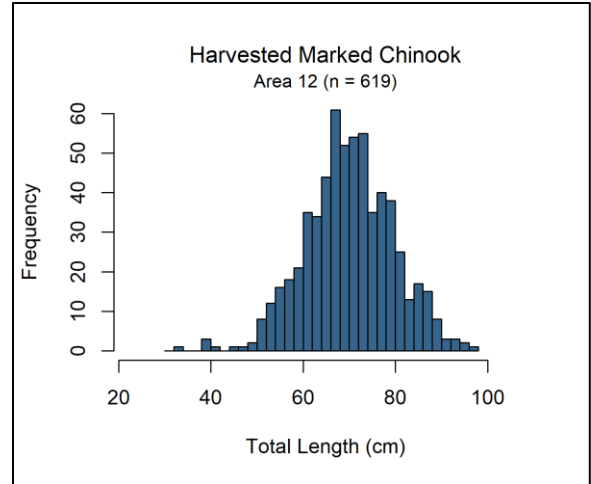
Stat Week	Start Date	End Date	Effort		Retained Fish			Released Fish		
			Boats	Anglers	Chin AD	Chin UM	Chin UK	Chin AD	Chin UM	Chin UK
27	1-Jul	6-Jul	20	41	2	0	0	3	10	0
28	7-Jul	13-Jul	25	47	2	0	0	7	7	2
29	14-Jul	20-Jul	62	130	32	0	0	5	2	12
30	21-Jul	27-Jul	56	116	52	0	0	16	5	1
31	28-Jul	3-Aug	99	230	120	1	0	28	14	3
32	4-Aug	10-Aug	138	270	92	0	10	16	9	8
33	11-Aug	17-Aug	145	286	88	0	12	44	21	6
34	18-Aug	24-Aug	94	178	62	0	0	14	24	13
35	25-Aug	31-Aug	121	228	118	0	2	46	27	12
36	1-Sep	7-Sep	62	111	19	0	0	16	12	23
37	8-Sep	14-Sep	74	126	68	2	0	13	8	33
38	15-Sep	21-Sep	62	101	5	0	0	2	0	0
39	22-Sep	28-Sep	21	40	1	0	0	4	0	1
40	29-Sep	30-Sep	2	3	0	0	0	0	0	0
<b>Season Total</b>			<b>981</b>	<b>1,907</b>	<b>661</b>	<b>3</b>	<b>24</b>	<b>214</b>	<b>139</b>	<b>114</b>

**Table 8.3** Observations of fishing effort, harvest and reported releases of salmon other than Chinook, by week, for the summer Chinook salmon MSF in Marine Area 12. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total estimates. AD = marked (adipose-clipped), UM = unmarked, UK = unknown mark-status, UD = undetermined mark-status.

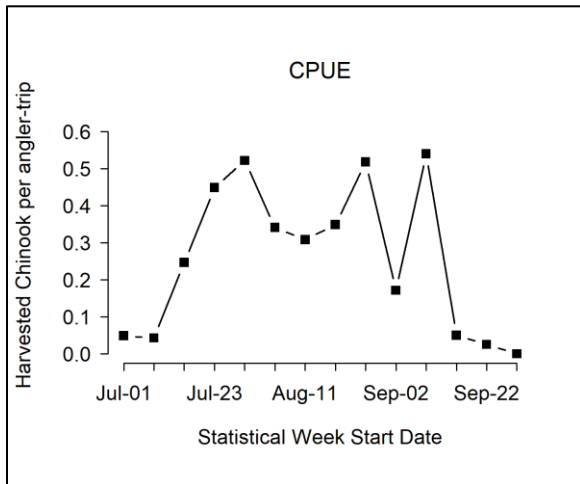
Stat Week	Start Date	End Date	Effort		Retained Fish				Released Fish					
			Boats	Anglers	Coho AD	Coho UM	Coho UK	Pink	Coho AD	Coho UM	Coho UK	Pink	Chum	Sockeye
27	1-Jul	6-Jul	20	41	0	0	0	0	0	2	0	0	0	0
28	7-Jul	13-Jul	25	47	1	1	0	1	0	2	0	1	0	0
29	14-Jul	20-Jul	62	130	0	0	0	0	3	3	0	0	0	0
30	21-Jul	27-Jul	56	116	1	0	0	1	1	2	0	11	0	0
31	28-Jul	3-Aug	99	230	4	0	0	8	0	6	3	4	1	0
32	4-Aug	10-Aug	138	270	1	0	0	36	3	6	2	55	0	1
33	11-Aug	17-Aug	145	286	79	15	1	22	6	26	3	12	4	1
34	18-Aug	24-Aug	94	178	48	3	0	7	6	14	3	15	0	0
35	25-Aug	31-Aug	121	228	27	2	1	8	0	14	2	16	11	0
36	1-Sep	7-Sep	62	111	111	0	0	5	7	35	1	20	17	0
37	8-Sep	14-Sep	74	126	51	5	1	6	5	12	8	6	29	0
38	15-Sep	21-Sep	62	101	59	0	3	0	0	44	0	0	40	0
39	22-Sep	28-Sep	21	40	0	0	0	0	0	2	3	0	0	0
40	29-Sep	30-Sep	2	3	0	0	0	0	0	0	0	0	0	0
<b>Season Total</b>			<b>981</b>	<b>1,907</b>	<b>382</b>	<b>26</b>	<b>6</b>	<b>94</b>	<b>31</b>	<b>168</b>	<b>25</b>	<b>140</b>	<b>102</b>	<b>2</b>



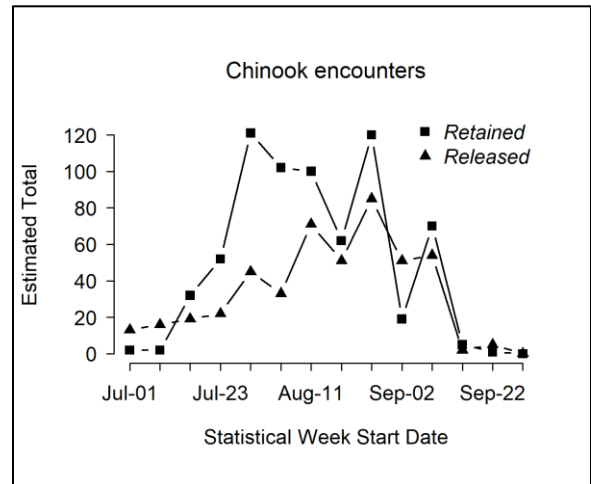
**Figure 8.1** Temporal patterns in fishing effort during the 2025 summer Chinook salmon MSF in Marine Area 12. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total.



**Figure 8.3** Length-frequency distributions of retained marked Chinook salmon sampled in dockside angler interviews during the 2025 summer Chinook salmon MSF in Marine Area 12.



**Figure 8.2** Temporal patterns in CPUE (number of marked Chinook salmon landed per angler trip) during the 2025 summer Chinook salmon MSF in Marine Area 12. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total estimates.



**Figure 8.4** Temporal patterns in Chinook salmon encounters (number retained and released) during the 2025 summer Chinook salmon MSF in Marine Area 12

**Table 8.4** List of sites sampled with the number of sampling events (site-days) during the 2025 summer Chinook salmon MSF in Marine Area 12.

Location Name	Number of Site Days Sampled Per Month			Total Site-Days	% of Total
	July	August	September		
Big Beef Beach	2	0	2	4	1.32%
Dewatto Creek Watch	1	0	2	3	0.99%
Hoodsport Shore	4	13	14	31	10.23%
Misery Point Ramp	1	0	5	6	1.98%
Pleasant Harbor Boat Ramp	2	3	6	11	3.63%
Point Whitney Ramp	2	1	5	8	2.64%
Quilcene Bay Ramp	6	2	5	13	4.29%
Quilcene Tide Flats	2	10	17	29	9.57%
Saltwater Park Ramp	27	49	33	109	35.97%
Tahuya Ramp	1	0	4	5	1.65%
Triton Cove State Park	2	5	6	13	4.29%
Twanoh State Park	5	8	12	25	8.25%
Union Ramp	13	11	18	42	13.86%
Summertide Resort	0	1	1	2	0.66%
Pleasant Harbor Marina	0	0	2	2	0.66%
<b>Total</b>	<b>68</b>	<b>103</b>	<b>132</b>	<b>303</b>	<b>100.00%</b>

**Table 8.5** Summary of total lengths from retained Chinook salmon collected during dockside angler interviews in the 2025 summer Chinook salmon MSF in Marine Area 12.

Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	606	13	619
Unmarked	2	1	3
<b>Total</b>	<b>608</b>	<b>14</b>	<b>622</b>

**Table 8.6** Dockside encounters (retained and released) by size-mark category during the 2025 summer Chinook salmon MSF in Marine Area 12. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	627	80	206	62
Bias-corrected size/mark composition	57.23%	8.21%	21.13%	13.43%
Variance	0.0007442	0.0001485	0.0006887	0.0001162

**Table 8.7** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 summer Chinook salmon MSF in Marine Area 12, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	38 1-trip STRs	62	6	21	6	95	0.87	0.91
<b>Size/mark-status composition:</b>		0.65	0.06	0.22	0.06			
<b>Variance:</b>		(0.0024)	(0.0006)	(0.0018)	(0.0006)			

**Table 8.8** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the July-August summer Chinook MSF in Marine Area 12. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
Clear Creek Hatchery	2022	1	0	0	0	0	0	0
George Adams Hatchery	2021	2	0	0	0	0	0	0
George Adams Hatchery	2022	6	0	0	0	0	0	0
George Adams Hatchery	2023	3	0	0	0	0	0	0
Marblemount Hatchery	2022	1	0	0	0	0	0	0
<b>Total</b>		<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 8.9** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 July-August summer Chinook MSF in Marine Area 12. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
BC	Fraser River & Thompson River (6.9%)	R-Chilliwack R	H-Chilliwack River H	2 (6.9%)	0
WA	Hood Canal (72.4%)	Purdy Cr 16.0005	George Adams Hatchery	11 (37.9%)	11
		Finch Cr 16.0222	Hoodsport Hatchery	10 (34.5%)	0
	Northern Puget Sound (3.4%)	Wallace R 07.0940	Wallace R Hatchery	1 (3.4%)	0
	Skagit River (3.4%)	Cascade R 03.1411	Marblemount Hatchery	1 (3.4%)	1
	Southern Puget Sound (6.9%)	Clear Cr 11.0013C	Clear Creek Hatchery	1 (3.4%)	1
		Minter Cr 15.0048	Minter Cr Hatchery	1 (3.4%)	0
Columbia River	Columbia River General Region (3.4%)	Columbia R - General	Wells Hatchery	1 (3.4%)	0
	SNAKE RIVER (3.4%)	Lyons Ferry Rel.Site	Lyons Ferry Hatchery	1 (3.4%)	0
<b>Total</b>				<b>29</b>	<b>13</b>

## **9) Marine Area 13 Summer Mark-Selective Chinook Fishery**

The Washington Department of Fish and Wildlife (WDFW) implemented a summer Chinook MSF in Marine Area 13 from May 1 through September 30, 2025. WDFW’s Puget Sound Sampling Unit (PSSU) implemented a “Baseline Sampling” program (see WDFW 2012a for details) consisting of dockside angler interviews with catch sampling along with efforts to distribute and collect voluntary salmon trip reports (STRs) from the angling public whenever possible.

Unlike the other survey designs, Baseline Sampling does not provide a means for generating in-season or immediate post-season estimates of fishery total catch and effort. These estimates will be available approximately one year after the closure of the fishery through the WDFW Catch Record Card (CRC) program. CRC and STR data will be used to estimate total Chinook salmon encounters and mortalities by size and mark-status using the methods provided in Conrad, R., T. Garber, and G. Rose (2020). While these descriptors of MSF impacts are not presented in this document, they will be available at a future time.

**Table 9-1** summarizes the parameters estimated and the sampling activities associated with each parameter. Specific procedures used for collecting these data and estimating critical data parameters are presented in detail in our separate Methods Report (WDFW 2012a). In this section we present results from our monitoring activities during the Marine Area 13 summer Chinook MSF, including relative catch and effort patterns over the course of the season based on the assumption that baseline-sampling observations of these parameters are good indicators of associated fishery-wide trends.

**Table 9.1** Sampling/estimation details on target parameters associated with the overall Marine Area 13 mark-selective fishery monitoring program.

Activity	Focal Parameter(s)	Secondary Parameter(s)	Sample Unit(s)	Finest Estimation Time Step	Comments
Dockside Angler Interviews (Baseline Sampling)	Observed (in-sample) fishing effort (boat & angler trips); kept and released fish.	Catch rates (CPUE); length, age, and CWT composition of harvest <sup>1</sup> ; collection of angler fishing methods.	Angler trip; kept fish; reported fish release	Week	Observed catch per angler trip and species composition data obtained from baseline sampling will ultimately be combined with Catch Record Card (CRC) data to produce fishery-total estimates at a later time (approximately one year following the fishery).
		Size (legal/sublegal) and mark-status (marked/unmarked) composition of encountered Chinook salmon	Boat trip	Season	Dockside encounter data will not be used for estimation of Chinook encounters for this fishery ( <b>Table 9.6</b> ).
Voluntary Salmon Trip Reports (STRs)	Size (legal/sublegal) and mark-status composition (marked, unmarked) of encountered Chinook salmon	Encounter data for non-Chinook salmon species (e.g., Coho salmon) that the angler may record on the STR form	Fish encounter	Season	35 STRs were turned in during the fishery ( <b>Table 9.7</b> ). With adequate sample size, STR data will be used to estimate encounters and mortalities at a later date.
Overall Fishery Impacts Estimation	Total Chinook salmon encounters and mortalities by size/mark-status group	Ratios of encounters and mortalities per kept Chinook salmon	N/A	Season	Will be estimated at a later date using the CRC-based retained Chinook salmon estimate, when it becomes available.
Coded-wire tag (CWT) Impacts Estimation	Marked/unmarked double-index tag (DIT) encounters and mortalities	N/A	N/A	Season	Will be estimated at a later date using the CRC-based retained Chinook salmon estimate when it becomes available. The temporal resolution of DIT impacts is constrained by the total number of tags recovered. No CWTs have been processed for this area at the time this report was written.

<sup>1</sup> The length and CWT composition of landed catch was assessed on a season-wide basis for impact estimation.

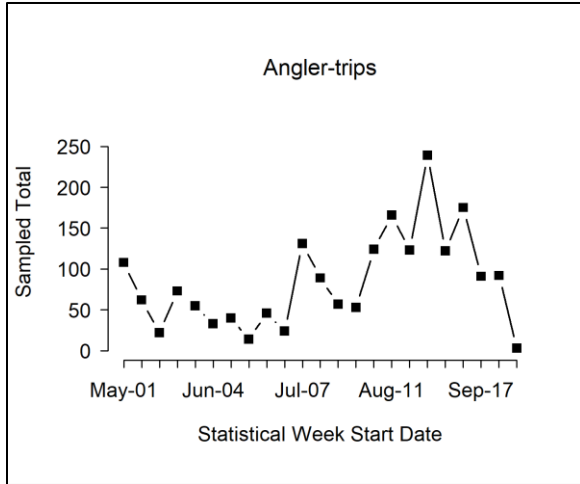
<sup>2</sup> Though samples were collected, DNA-based estimates of stock composition are not yet available for this fishery.

**Table 9.2** Observations of fishing effort, salmon harvest, and reported salmon releases, by week, for the summer Chinook MSF in Marine Area 13. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total estimates. AD = marked (adipose-clipped), UM = unmarked, UK = unknown mark status.

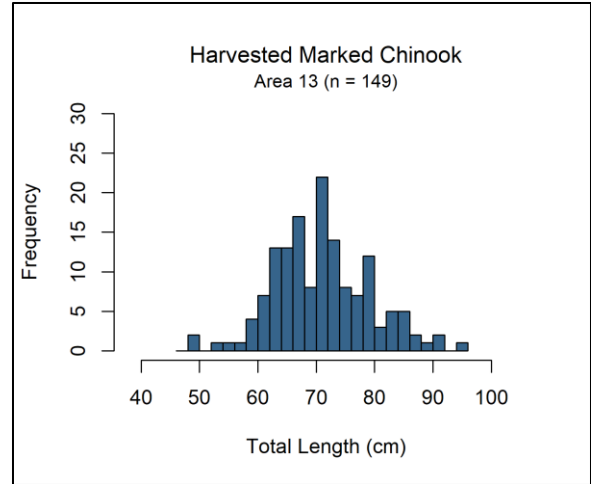
Stat Week	Start Date	End Date	Effort		Retained Fish			Released Fish		
			Boats	Anglers	Chin AD	Chin UM	Chin UK	Chin AD	Chin UM	Chin UK
18	1-May	4-May	58	108	2	0	0	0	3	1
19	5-May	11-May	34	62	5	0	0	1	2	0
20	12-May	18-May	10	22	0	0	0	0	0	0
21	19-May	25-May	43	73	8	0	0	1	2	2
22	26-May	1-Jun	33	55	8	0	0	1	0	0
23	2-Jun	8-Jun	18	33	11	0	0	0	0	0
24	9-Jun	15-Jun	21	40	6	0	0	0	0	0
25	16-Jun	22-Jun	8	14	1	0	0	2	1	0
26	23-Jun	29-Jun	22	46	1	0	0	11	0	0
27	30-Jun	6-Jul	18	24	5	0	0	1	1	0
28	7-Jul	13-Jul	71	131	3	0	0	1	3	2
29	14-Jul	20-Jul	50	89	3	0	1	0	1	1
30	21-Jul	27-Jul	23	57	3	0	0	2	0	2
31	28-Jul	3-Aug	28	53	3	0	0	0	1	4
32	4-Aug	10-Aug	71	124	8	0	0	5	0	2
33	11-Aug	17-Aug	93	166	21	1	2	10	4	6
34	18-Aug	24-Aug	66	123	30	0	0	4	4	6
35	25-Aug	31-Aug	123	239	28	2	0	11	9	20
36	1-Sep	7-Sep	61	122	2	0	0	2	0	1
37	8-Sep	14-Sep	91	175	0	0	0	5	4	0
38	17-Sep	21-Sep	47	91	0	0	0	0	3	1
39	22-Sep	28-Sep	54	92	0	0	0	1	0	0
40	29-Sep	30-Sep	2	3	1	0	0	0	0	0
<b>Season Total</b>			<b>1,045</b>	<b>1,942</b>	<b>149</b>	<b>3</b>	<b>3</b>	<b>58</b>	<b>38</b>	<b>48</b>

**Table 9.3** Observations of fishing effort, harvest and reported releases of salmon other than Chinook, by week, for the summer Chinook salmon MSF in Marine Area 13. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total estimates. AD = marked (adipose-clipped), UM = unmarked, UK = unknown mark-status, UD = undetermined mark-status.

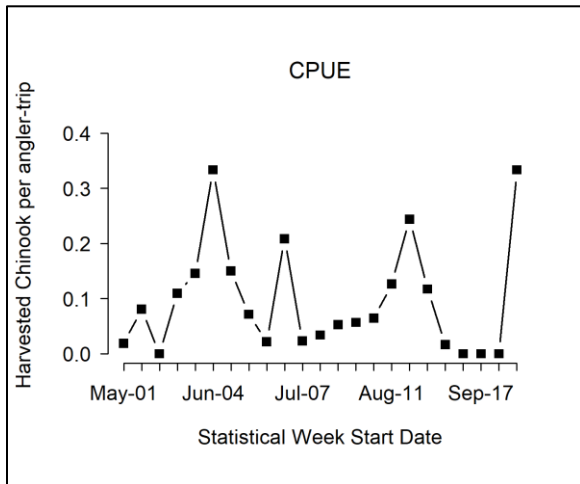
Stat Week	Start Date	End Date	Effort		Retained Fish		Released Fish			
			Boats	Anglers	Coho AD	Pink	Coho AD	Coho UM	Coho UK	Pink
18	1-May	4-May	58	108	0	0	1	0	0	0
19	5-May	11-May	34	62	0	0	0	0	0	0
20	12-May	18-May	10	22	0	0	0	0	0	0
21	19-May	25-May	43	73	0	0	0	0	0	0
22	26-May	1-Jun	33	55	0	0	0	0	0	0
23	2-Jun	8-Jun	18	33	0	0	0	0	0	0
24	9-Jun	15-Jun	21	40	0	0	0	0	0	0
25	16-Jun	22-Jun	8	14	0	0	0	0	0	0
26	23-Jun	29-Jun	22	46	0	0	0	1	0	0
27	30-Jun	6-Jul	18	24	0	0	0	0	0	0
28	7-Jul	13-Jul	71	131	0	0	0	0	0	0
29	14-Jul	20-Jul	50	89	0	0	0	0	0	0
30	21-Jul	27-Jul	23	57	0	1	0	0	0	0
31	28-Jul	3-Aug	28	53	1	2	0	0	0	1
32	4-Aug	10-Aug	71	124	0	0	2	1	1	6
33	11-Aug	17-Aug	93	166	0	0	0	0	0	0
34	18-Aug	24-Aug	66	123	1	3	0	0	0	0
35	25-Aug	31-Aug	123	239	7	10	7	2	0	12
36	1-Sep	7-Sep	61	122	3	4	3	0	1	0
37	8-Sep	14-Sep	91	175	13	21	2	4	3	8
38	17-Sep	21-Sep	47	91	10	2	4	0	1	0
39	22-Sep	28-Sep	54	92	4	0	2	2	20	1
40	29-Sep	30-Sep	2	3	0	0	0	0	2	0
<b>Season Total</b>			<b>1,045</b>	<b>1,942</b>	<b>39</b>	<b>43</b>	<b>21</b>	<b>10</b>	<b>28</b>	<b>28</b>



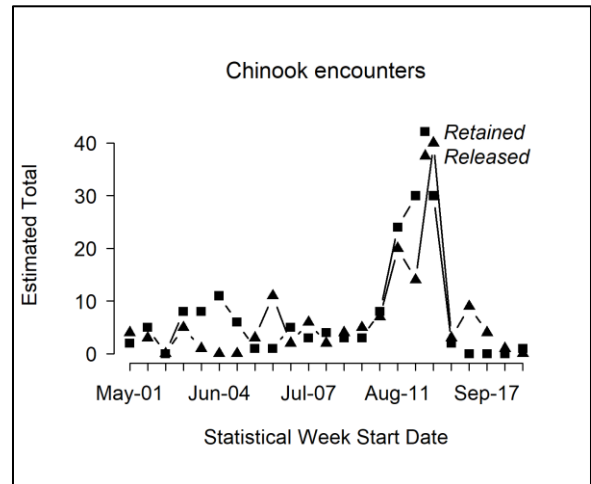
**Figure 9.1** Temporal patterns in fishing effort during the 2025 summer Chinook salmon MSF in Marine Area 13. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total.



**Figure 9.3** Length-frequency distributions of retained marked Chinook salmon sampled in dockside angler interviews during the 2025 summer Chinook salmon MSF in Marine Area 13.



**Figure 9.2** Temporal patterns in CPUE (number of marked Chinook salmon landed per angler trip) during the 2025 summer Chinook salmon MSF in Marine Area 13. Note: displayed values are sample observations (summed across sampled sites) and not fishery-total estimates.



**Figure 9.4** Temporal patterns in Chinook salmon encounters (number retained and released) during the 2025 summer Chinook salmon MSF in Marine Area 13.

**Table 9.4** List of sites sampled with the number of sampling events (site-days) during the 2025 summer Chinook salmon MSF in Marine Area 13.

Location Ome	Number of Site Days Sampled Per Month					Total Site-Days	% of Total
	May	June	July	August	September		
Allyn Public Ramp	9	1	0	1	2	13	3.03%
Boston Harbor Ramp/Marina	14	9	12	16	16	67	15.62%
East Bay Marina/Ramp	21	13	4	13	7	58	13.52%
Grapeview Public Ramp	7	1	0	0	2	10	2.33%
Hartstine Is. Ramp	17	3	5	6	17	48	11.19%
Luhr Beach Ramp	21	17	15	24	18	95	22.14%
Steilacoom Public Ramp	4	1	0	0	0	5	1.17%
Vaughn Public Ramp	6	1	0	0	0	7	1.63%
Zittels Marina	23	14	14	17	19	87	20.28%
Concrete Dock	0	1	1	4	0	6	1.40%
Fox Island Public Ramp	0	1	1	3	1	6	1.40%
Home Public Ramp	0	1	2	1	0	4	0.93%
Horsehead Bay Ramp	0	1	0	0	0	1	0.23%
Longbranch Public Ramp	0	1	1	3	0	5	1.17%
Narrows Park	0	1	0	0	0	1	0.23%
Wollochet Bay Public Ramp	0	1	0	0	0	1	0.23%
Arcadia Ramp	0	0	1	5	6	12	2.80%
Joemma Beach Ramp	0	0	0	1	0	1	0.23%
Squaxin Park	0	0	0	0	1	1	0.23%
Steamboat Island Bridge	0	0	0	0	1	1	0.23%
<b>Total</b>	<b>122</b>	<b>67</b>	<b>56</b>	<b>94</b>	<b>90</b>	<b>429</b>	<b>100.00%</b>

**Table 9.5** Summary of total lengths from retained Chinook salmon collected during dockside angler interviews in the 2025 summer Chinook salmon MSF in Marine Area 13.

Mark Type	Number Sampled		
	Legal-size	Sublegal-size	Total
Marked	147	2	149
Unmarked	3	0	3
<b>Total</b>	<b>150</b>	<b>2</b>	<b>152</b>

**Table 9.6** Dockside encounters (retained and released) by size-mark category during the 2025 summer Chinook salmon MSF in Marine Area 13. Retained fish were sampled for mark-status and length, released fish by size-mark status were reported by the angler.

Dockside Encounters				
Metric	Legal		Sublegal	
	LM	LU	SM	SU
Encounters	157	30	50	11
Bias-corrected size/mark composition	56.34%	12.10%	20.16%	11.40%
Variance	0.0020802	0.0006618	0.0021368	0.0001998

**Table 9.7** Total Chinook salmon encountered (retained and released) by private-boat anglers logging their trips on STRs during the 2025 summer Chinook salmon MSF in Marine Area 13, with estimates of legal-size and overall (legal and sublegal) mark rates. AD = marked (adipose-clipped), UM = unmarked. Variances associated with size/mark-status proportions and mark rates are provided in parentheses.

Data Source	Effort and Sample Size	Legal		Sublegal		Totals	Mark Rate	
		AD	UM	AD	UM		Overall	Legal
Private STR	35 1-trip STRs	14	8	11	14	47	0.53	0.64
<b>Size/mark-status composition:</b>		0.30	0.17	0.23	0.30			
<b>Variance:</b>		(0.0045)	(0.0031)	(0.0039)	(0.0045)			

**Table 9.8** Summary of double-index tagged (DIT) Chinook salmon kept by anglers and estimated total mortality of unmarked DIT Chinook salmon due to hook-and-release impacts resulting from the July-August summer Chinook MSF in Marine Area 13. AD = marked (adipose-clipped), UM = unmarked.

Hatchery	Brood Year	DITs Obs	Est.AD	var(Est.AD)	UM DIT Enc	Est.UM	var(Est.UM)	SE(Est.UM)
George Adams Hatchery	2022	1	0	0	0	0	0	0
Soos Creek Hatchery	2021	1	0	0	0	0	0	0
<b>Total</b>		<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table 9.9** Summary of coded-wire tags recovered from Chinook salmon harvested during the 2025 July-August summer Chinook MSF in Marine Area 13. The field “Number DITs” corresponds to the number of tags that belonged to double-index tag groups. Note: Not all tags have been processed before the writing of this report.

Release Domain	Release Region	Release Site	Rearing Location	CWTs Recovered	No. DITs
WA	Hood Canal (10%)	Purdy Cr 16.0005	George Adams Hatchery	1 (10%)	1
	Northern Puget Sound (10%)	Wallace R 07.0940	Wallace R Hatchery	1 (10%)	0
	Mid Puget Sound (30%)	Big Soos Cr 09.0072	Soos Creek Hatchery	1 (10%)	1
		Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	2 (20%)	0
	Southern Puget Sound (50%)	Chambers Cr 12.0007	Garrison Hatchery	1 (10%)	0
		Deschutes R 13.0028	Tumwater Falls Hatchery	2 (20%)	0
		Minter Cr 15.0048	Minter Cr Hatchery	2 (20%)	0
			Total	10	2

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## APPENDICES

### 1) SITE WEIGHTS

**Appendix 1** Size measures by sample date, for sites sampled during dockside creel surveys for the summer Chinook MSF in Marine Area 5.

Sample Date	Week	Location #1	Site Size	Location #2	Site Size
7/1/2025	26	Mason's Ramp & Docks	0.2687	Van Riper's South	0.2592
7/5/2025	26	Mason's Ramp & Docks	0.3328	Mason's West Docks	0.0726
7/6/2025	26	Mason's East Docks	0.2524	Mason's West Docks	0.0726
7/7/2025	27	Mason's Ramp & Docks	0.2687	Mason's East Docks	0.2845
7/8/2025	27	Mason's East Docks	0.2845	Van Riper's North	0.0936
7/11/2025	27	Mason's East Docks	0.2524	Van Riper's South	0.1946
7/12/2025	27	Van Riper's South	0.1946	Van Riper's North	0.1001
7/12/2025	27	Mason's Ramp & Docks	0.3328	Mason's East Docks	0.2524
7/13/2025	27	Mason's Ramp & Docks	0.2687	Mason's East Docks	0.2845
7/16/2025	28	Mason's Ramp & Docks	0.2687	Van Riper's North	0.0936
7/17/2025	28	Mason's Ramp & Docks	0.3328	Van Riper's North	0.1001
7/18/2025	28	Mason's Ramp & Docks	0.3328	Van Riper's North	0.1001
7/19/2025	28	Mason's West Docks	0.0726	Van Riper's South	0.1946
7/20/2025	28	Mason's East Docks	0.2845	Van Riper's North	0.0936
7/23/2025	29	Mason's Ramp & Docks	0.2687	Van Riper's South	0.2592
7/24/2025	29	Mason's Ramp & Docks	0.3328	Mason's East Docks	0.2524
7/25/2025	29	Mason's East Docks	0.2524	Van Riper's South	0.1946
7/26/2025	29	Mason's Ramp & Docks	0.3328	Van Riper's South	0.1946
7/27/2025	29	Mason's Ramp & Docks	0.2687	Mason's East Docks	0.2845
7/29/2025	30	Mason's Ramp & Docks	0.2687	Van Riper's South	0.2592
7/31/2025	30	Mason's Ramp & Docks	0.2687	Van Riper's South	0.2592
8/1/2025	30	Mason's Ramp & Docks	0.2531	Mason's West Docks	0.0525
8/2/2025	30	Mason's West Docks	0.0525	Curley's/Straitside	0.0289
8/3/2025	30	Mason's East Docks	0.3468	Mason's West Docks	0.0344
8/5/2025	31	Mason's Ramp & Docks	0.2992	Mason's West Docks	0.0380
8/7/2025	31	Mason's East Docks	0.3300	Van Riper's North	0.1336
8/8/2025	31	Mason's East Docks	0.3468	Van Riper's North	0.1299
8/9/2025	31	Mason's East Docks	0.3468	Van Riper's South	0.1809
8/10/2025	31	Mason's East Docks	0.3468	Mason's West Docks	0.0525
8/12/2025	32	Mason's Ramp & Docks	0.2992	Van Riper's South	0.1402
8/13/2025	32	Mason's Ramp & Docks	0.2800	Mason's East Docks	0.2866
8/15/2025	32	Mason's Ramp & Docks	0.2516	Mason's East Docks	0.3406

*Draft; February 1, 2026*

**Appendix 2** Size measures by sample date, for sites sampled during dockside creel surveys for the summer Chinook MSF in Marine Area 9.

Sample Date	Week	Location #1	Site Size	Location #2	Site Size
7/17/2025	28	Everett Ramp	0.3800	Port Townsend Boat Haven Ramp	0.2006
7/18/2025	28	Everett Ramp	0.4577	Port Townsend Boat Haven Ramp	0.1977
7/19/2025	28	Everett Ramp	0.4577	Port Townsend Boat Haven Ramp	0.1977
7/25/2025	29	Everett Ramp	0.4580	Fort Casey/Keystone Ramp	0.1891

Draft; February 1, 2026

**Appendix 3** Size measures by sample date, for sites sampled during dockside creel surveys for the summer Chinook MSF in Marine Area 10.

Sample Date	Week	Location #1	Site Size	Location #2	Site Size
7/18/2025	28	Shilshole Public Ramp	0.4983	Armeni Ramp	0.1554
7/19/2025	28	Shilshole Public Ramp	0.4983	Kingston Ramp	0.1995
7/24/2025	29	Shilshole Public Ramp	0.5100	Kingston Ramp	0.1960
7/25/2025	29	Shilshole Public Ramp	0.4983	Armeni Ramp	0.1554
7/26/2025	29	Shilshole Public Ramp	0.4983	Kingston Ramp	0.1995
7/31/2025	30	Shilshole Public Ramp	0.5100	Brownsville Ramp	0.1047
8/1/2025	20	Shilshole Public Ramp	0.5402	Armeni Ramp	0.1667
8/2/2025	20	Shilshole Public Ramp	0.5402	Armeni Ramp	0.1667
8/9/2025	31	Shilshole Public Ramp	0.5402	Armeni Ramp	0.1667
8/16/2025	32	Shilshole Public Ramp	0.5402	Kingston Ramp	0.1762
8/23/2025	33	Shilshole Public Ramp	0.5402	Kingston Ramp	0.1762

**Appendix 4** Size measures by sample date, for sites sampled during dockside creel surveys for the summer Chinook MSF in Marine Area 11.

Sample Date	Week	Location #1	Site Size	Location #2	Site Size
6/4/2025	22	Point Defiance Public Ramp	0.6145	Point Defiance Boathouse	0.2980
6/5/2025	22	Point Defiance Public Ramp	0.6145	Point Defiance Boathouse	0.2980
6/6/2025	22	Point Defiance Public Ramp	0.6797	Gig Harbor Ramp	0.1016
6/7/2025	22	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/12/2025	23	Point Defiance Public Ramp	0.6145	Point Defiance Boathouse	0.2980
6/12/2025	23	Point Defiance Public Ramp	0.6145	Gig Harbor Ramp	0.0770
6/13/2025	23	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/14/2025	23	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/18/2025	24	Point Defiance Public Ramp	0.6145	Gig Harbor Ramp	0.0770
6/20/2025	24	Point Defiance Public Ramp	0.6797	Gig Harbor Ramp	0.1016
6/21/2025	24	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/22/2025	24	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/24/2025	25	Point Defiance Public Ramp	0.6145	Point Defiance Boathouse	0.2980
6/26/2025	25	Point Defiance Public Ramp	0.6145	Point Defiance Boathouse	0.2980
6/27/2025	25	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/28/2025	25	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/29/2025	25	Point Defiance Public Ramp	0.6797	Point Defiance Boathouse	0.1993
6/30/2025	25	Point Defiance Public Ramp	0.6145	Point Defiance Boathouse	0.2980
7/17/2025	28	Point Defiance Public Ramp	0.6022	Point Defiance Boathouse	0.2651
7/18/2025	28	Point Defiance Public Ramp	0.6669	Point Defiance Boathouse	0.2287
7/19/2025	28	Point Defiance Public Ramp	0.6669	Point Defiance Boathouse	0.2287
7/24/2025	29	Point Defiance Public Ramp	0.6022	Point Defiance Boathouse	0.2651
7/25/2025	29	Point Defiance Public Ramp	0.6669	Point Defiance Boathouse	0.2287

Draft; February 1, 2026

Sample Date	Week	Location #1	Site Size	Location #2	Site Size
7/26/2025	29	Point Defiance Public Ramp	0.6669	Point Defiance Boathouse	0.2287
7/27/2025	29	Point Defiance Public Ramp	0.6669	Point Defiance Boathouse	0.2287
7/29/2025	30	Point Defiance Public Ramp	0.6022	Gig Harbor Ramp	0.1148
7/31/2025	30	Point Defiance Public Ramp	0.6022	Point Defiance Boathouse	0.2651
8/1/2025	30	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/2/2025	30	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/3/2025	30	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/5/2025	31	Point Defiance Public Ramp	0.6635	Point Defiance Boathouse	0.2157
8/7/2025	31	Point Defiance Public Ramp	0.6635	Gig Harbor Ramp	0.1148
8/8/2025	31	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/9/2025	31	Point Defiance Public Ramp	0.6822	Armeni Ramp	0.0182
8/10/2025	31	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/12/2025	32	Point Defiance Public Ramp	0.6635	Gig Harbor Ramp	0.1148
8/13/2025	32	Point Defiance Public Ramp	0.6635	Point Defiance Boathouse	0.2157
8/15/2025	32	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/16/2025	32	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/17/2025	32	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/19/2025	33	Point Defiance Public Ramp	0.6635	Point Defiance Boathouse	0.2157
8/21/2025	33	Point Defiance Public Ramp	0.6635	Point Defiance Boathouse	0.2157
8/22/2025	33	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/23/2025	33	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/24/2025	33	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/25/2025	34	Point Defiance Public Ramp	0.6635	Gig Harbor Ramp	0.1148
8/28/2025	34	Point Defiance Public Ramp	0.6635	Point Defiance Boathouse	0.2157
8/29/2025	34	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/30/2025	34	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
8/31/2025	34	Point Defiance Public Ramp	0.6822	Point Defiance Boathouse	0.2287
9/4/2025	35	Point Defiance Public Ramp	0.6740	Point Defiance Boathouse	0.2574
9/5/2025	35	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/6/2025	35	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/7/2025	35	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/8/2025	36	Point Defiance Public Ramp	0.6740	Point Defiance Boathouse	0.2574
9/10/2025	36	Point Defiance Public Ramp	0.6740	Point Defiance Boathouse	0.2574
9/12/2025	36	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/13/2025	36	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/14/2025	36	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/16/2025	37	Point Defiance Public Ramp	0.6740	Point Defiance Boathouse	0.2574
9/17/2025	37	Point Defiance Public Ramp	0.6740	Gig Harbor Ramp	0.0686
9/19/2025	37	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/20/2025	37	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907

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Sample Date	Week	Location #1	Site Size	Location #2	Site Size
9/21/2025	37	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/24/2025	38	Point Defiance Public Ramp	0.6740	Point Defiance Boathouse	0.2574
9/25/2025	38	Point Defiance Public Ramp	0.6740	Gig Harbor Ramp	0.0686
9/26/2025	38	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/27/2025	38	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/28/2025	38	Point Defiance Public Ramp	0.7434	Point Defiance Boathouse	0.1907
9/30/2025 <sup>4</sup>	39	Point Defiance Public Ramp	0.6740	Point Defiance Boathouse	0.2574

## 2) CWT RECOVERIES

**Appendix 5** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 5. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT codes	FL(cm)	Label	Recovery Mark
5	1-Jul-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	84	CWT00086895	AD
5	1-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	62	CWT00090385	AD
5	1-Jul-25	211590	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	77	CWT00090386	AD
5	1-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	63	CWT00090387	AD
5	1-Jul-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	83	CWT00090388	AD
5	1-Jul-25	638027	2020	Wenatchee R 45.0030	Na	WDFW	NA	62	CWT00090389	AD
5	1-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00152107	AD
5	1-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	81	CWT00152121	AD
5	1-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	56	CWT00154013	AD
5	1-Jul-25	211542	2021	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	65	CWT00154014	AD
5	1-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	63	CWT00154015	AD
5	5-Jul-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	73	CWT00088321	AD
5	5-Jul-25	211528	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	82	CWT00088349	AD
5	5-Jul-25	638533	2022	Point Defiance Net Pens	Point Defiance Net Pens	PUYA	NA	63	CWT00090390	AD
5	5-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	68	CWT00090391	AD
5	5-Jul-25	92075	2021	Yakima @ Prosser Hat	Prosser Hatchery	YAKA	NA	68	CWT00090392	AD
5	5-Jul-25	91971	2021	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	72	CWT00090393	AD
5	5-Jul-25	186555	2020	R-Chilko R	H-Inch Creek H	CDFO	NA	85	CWT00154016	AD
5	6-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	67	CWT00086862	AD
5	6-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	59	CWT00086863	AD
5	6-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	54	CWT00088339	AD
5	6-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	59	CWT00088350	AD
5	6-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	72	CWT00090397	AD
5	6-Jul-25	638411	2021	Columbia R - General	Wells Hatchery	DCPUD	NA	55	CWT00090398	AD

5	6-Jul-25	211491	2020	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	211490; 637628; 637811	88	CWT00090399	AD
5	6-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00154017	AD
5	6-Jul-25	638546	2022	Cascade R 03.1411	Marblemount Hatchery	WDFW	NA	61	CWT00154018	AD
5	6-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	67	CWT00154019	AD
5	6-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	66	CWT00154020	AD
5	6-Jul-25	638346	2021	Cowlitz R 26.0002	Cowlitz Salmon Hatchery	WDFW	NA	58	CWT00154021	AD
5	6-Jul-25	186864	2022	R-Capilano R	H-Capilano River H	CDFO	NA	63	CWT00154022	AD
5	7-Jul-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	60	CWT00088351	AD
5	7-Jul-25	91595	2020	Santiam R & N Fk-1	Minto Ponds (N Santiam R)	ODFW	NA	87	CWT00088352	AD
5	7-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	58	CWT00089570	AD
5	7-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	57	CWT00089571	AD
5	7-Jul-25	184490	2021	R-Cheakamus R	H-Tenderfoot Creek H	CDFO	NA	83	CWT00090400	AD
5	7-Jul-25	211439	2022	Skookum Cr 01.0273	Skookum Cr Hatchery	LUMMI	NA	54	CWT00154036	AD
5	8-Jul-25	211578	2021	Sol Duc R 20.0096	Solduc Hatchery	WDFW	NA	74	CWT00086864	AD
5	8-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	68	CWT00088353	AD
5	8-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	73	CWT00088354	AD
5	8-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	63	CWT00150101	AD
5	11-Jul-25	91565	2020	Clackamas R	Clackamas Hatchery	ODFW	NA	80	CWT00081976	AD
5	11-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	60	CWT00046530	AD
5	11-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	56	CWT00086865	AD
5	11-Jul-25	187093	2021	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	76	CWT00086894	AD
5	11-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	55	CWT00089573	AD
5	11-Jul-25	186806	2021	R-Chilko R	H-Inch Creek H	CDFO	NA	77	CWT00150102	AD
5	11-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	57	CWT00150103	AD
5	11-Jul-25	638040	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	55	CWT00150104	AD
5	12-Jul-25	211458	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	55	CWT00086868	AD

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5	12-Jul-25	211459	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	211460	54	CWT00150134	AD
5	12-Jul-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	58	CWT00150135	AD
5	12-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	50	CWT00154033	AD
5	13-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	54	CWT00088328	AD
5	16-Jul-25	637788	2019	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	62	CWT00088375	AD
5	16-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	64	CWT00152111	AD
5	16-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	55	CWT00152118	AD
5	16-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	59	CWT00152120	AD
5	16-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00154027	AD
5	17-Jul-25	638045	2022	Naselle R 24.0543	Naselle Hatchery	WDFW	NA	57	CWT00086869	AD
5	17-Jul-25	90015	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	65	CWT00088322	AD
5	17-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	70	CWT00150133	AD
5	17-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	76	CWT00150157	AD
5	17-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	71	CWT00150158	AD
5	18-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	61	CWT00086870	AD
5	18-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	61	CWT00150132	AD
5	18-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	72	CWT00150137	AD
5	18-Jul-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	76	CWT00150138	AD
5	18-Jul-25	638318	2021	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	85	CWT00154028	AD
5	18-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	76	CWT00154029	AD
5	19-Jul-25	638567	2022	Col R @ Priest Rapids	Priest Rapids Hatchery	WDFW	638561	70	CWT00150127	AD
5	19-Jul-25	637791	2020	East Sound Bay (San)	Glenwood Springs	COOP	NA	88	CWT00150130	AD
5	19-Jul-25	210015	2022	Sol Duc R 20.0096	Solduc Hatchery	WDFW	NA	59	CWT00150131	AD
5	19-Jul-25	63004	2022	San Joaq Shrm Isl Net Pen	Mok R Fish Ins	CDFW	NA	59	CWT00152110	AD
5	19-Jul-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	87	CWT00152119	AD
5	19-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	58	CWT00154080	AD
5	20-Jul-25	186711	2021	R-Robertson Cr	H-Robertson Creek H	CDFO	NA	81	CWT00086872	AD
5	20-Jul-25	186806	2021	R-Chilko R	H-Inch Creek H	CDFO	NA	77	CWT00150136	AD
5	20-Jul-25	220038	2022	Snake R @Pittsburg L	Lyons Ferry Hatchery	NPT	NA	67	CWT00152123	AD
5	23-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	60	CWT00152129	AD

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5	25-Jul-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	58	CWT00150117	AD
5	25-Jul-25	211507	2020	Stillaguamish R -Sf	Brenner Hatchery	STIL	NA	84	CWT00150122	AD
5	26-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	68	CWT00086874	AD
5	26-Jul-25	56592	2022	Spring Cr 29.0159	Spring Cr Nfh	USFWS	056593; 056668; 056669	57	CWT00094004	AD
5	26-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	87	CWT00150116	AD
5	26-Jul-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	86	CWT00150118	AD
5	26-Jul-25	90015	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	61	CWT00150123	AD
5	26-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	59	CWT00152127	AD
5	26-Jul-25	210015	2022	Sol Duc R 20.0096	Solduc Hatchery	WDFW	NA	61	CWT00154031	AD
5	26-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	75	CWT00154037	AD
5	26-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	61	CWT00154081	AD
5	27-Jul-25	210015	2022	Sol Duc R 20.0096	Solduc Hatchery	WDFW	NA	52	CWT00088323	AD
5	27-Jul-25	638574	2022	Klickitat R 30.0002	Klickitat Hatchery	YAKA	NA	64	CWT00088337	AD
5	27-Jul-25	211467	2023	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	35	CWT00094007	AD
5	27-Jul-25	211385	2019	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	78	CWT00094008	AD
5	27-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	75	CWT00150129	AD
5	27-Jul-25	186806	2021	R-Chilko R	H-Inch Creek H	CDFO	NA	71	CWT00152124	AD
5	27-Jul-25	638279	2021	Wilkeson Cr 10.0432	Clarks Crk Hatchery	PUYA	NA	80	CWT00152125	AD
5	27-Jul-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	74	CWT00152126	AD
5	27-Jul-25	638039	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	60	CWT00152128	AD
5	27-Jul-25	638350	2021	Cowlitz R 26.0002	Cowlitz Salmon Hatchery	WDFW	NA	58	CWT00154082	AD
5	27-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	55	CWT00154083	AD
5	27-Jul-25	638353	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	65	CWT00154084	AD
5	29-Jul-25	56480	2021	Spring Cr 29.0159	Spring Cr Nfh	USFWS	56481	87	CWT00152117	AD
5	29-Jul-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	69	CWT00154085	AD
5	31-Jul-25	220287	2021	Magrudor Corridor	Npt Hatchery	NPT	NA	74	CWT00154089	AD

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5	2-Aug-25	638275	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	62	CWT00150159	AD
5	3-Aug-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	70	CWT00086879	AD
5	3-Aug-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	71	CWT00090401	AD
5	3-Aug-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	60	CWT00090402	AD
5	3-Aug-25	638508	2023	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638510	44	CWT00097119	Unmarked
5	3-Aug-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	83	CWT00150121	AD
5	3-Aug-25	638056	2021	Lyons Ferry Rel.Site	Lyons Ferry Hatchery	WDFW	NA	68	CWT00150139	AD
5	3-Aug-25	638558	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	67	CWT00150156	AD
5	3-Aug-25	56519	2021	Tsoo-Yess R 20.0015	Makah Nfh On Tsoo-Yess R	USFWS	NA	76	CWT00150582	AD
5	3-Aug-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	73	CWT00150583	AD
5	3-Aug-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	76	CWT00152116	AD
5	3-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00152133	AD
5	3-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	61	CWT00152134	AD
5	3-Aug-25	220405	2021	Captain Johns Pd	Lyons Ferry Hatchery	NPT	NA	75	CWT00152170	AD
5	3-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	55	CWT00152171	AD
5	5-Aug-25	211586	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	72	CWT00086887	AD
5	7-Aug-25	638474	2022	Cowlitz R 26.0002	Cowlitz Salmon Hatchery	WDFW	NA	58	CWT00086880	AD
5	7-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	69	CWT00086882	AD
5	7-Aug-25	211542	2021	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	67	CWT00150143	AD
5	7-Aug-25	220036	2022	Big Canyon Acel Pond	Lyons Ferry Hatchery	NPT	NA	56	CWT00150581	AD
5	7-Aug-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	63	CWT00152132	AD
5	7-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	59	CWT00152168	AD
5	7-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	71	CWT00154092	AD
5	8-Aug-25	638459	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	54	CWT00088335	AD
5	8-Aug-25	90011	2022	Snake R-1 (Hells Can	Irrigon Hatchery	ODFW	NA	54	CWT00090406	AD
5	8-Aug-25	186884	2021	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	73	CWT00090407	AD
5	8-Aug-25	56592	2022	Spring Cr 29.0159	Spring Cr Nfh	USFWS	056593; 056668; 056669	70	CWT00150141	AD

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5	8-Aug-25	211542	2021	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	66	CWT00150148	AD
5	8-Aug-25	638045	2022	Naselle R 24.0543	Naselle Hatchery	WDFW	NA	62	CWT00152162	AD
5	8-Aug-25	187093	2021	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	77	CWT00152163	AD
5	9-Aug-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	84	CWT00086883	AD
5	9-Aug-25	92064	2021	Snake R-1 (Hells Can	Irrigon Hatchery	ODFW	NA	72	CWT00150160	AD
5	9-Aug-25	638389	2021	Lewis R -Nf 27.0168	Na	WDFW	NA	65	CWT00150497	AD
5	9-Aug-25	638333	2021	East Sound Bay (San)	Glenwood Springs	COOP	NA	60	CWT00150579	AD
5	9-Aug-25	220035	2022	Captain Johns Pd	Lyons Ferry Hatchery	NPT	NA	55	CWT00153201	AD
5	9-Aug-25	220404	2021	Snake R @Pittsburg L	Lyons Ferry Hatchery	NPT	NA	78	CWT00153202	AD
5	9-Aug-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	56	CWT00154093	AD
5	9-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	60	CWT00154094	AD
5	9-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	59	CWT00154097	AD
5	9-Aug-25	56592	2022	Spring Cr 29.0159	Spring Cr Nfh	USFWS	056593; 056668; 056669	69	CWT00154098	AD
5	10-Aug-25	186884	2021	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	79	CWT00090410	AD
5	10-Aug-25	211542	2021	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	56	CWT00150495	AD
5	10-Aug-25	638040	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	56	CWT00152135	AD
5	10-Aug-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	63	CWT00152156	AD
5	10-Aug-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	66	CWT00152901	AD
5	10-Aug-25	211439	2022	Skookum Cr 01.0273	Skookum Cr Hatchery	LUMMI	NA	59	CWT00152902	AD
5	10-Aug-25	220291	2020	Big Canyon Accl Pond	Lyons Ferry Hatchery	NPT	NA	77	CWT00152905	AD
5	10-Aug-25	187093	2021	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	60	CWT00152906	AD
5	10-Aug-25	638065	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638068	68	CWT00153204	AD
5	12-Aug-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	58	CWT00090359	AD
5	12-Aug-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	83	CWT00090412	AD
5	12-Aug-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	63	CWT00152154	AD

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5	12-Aug-25	211502	2020	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	76	CWT00152907	AD
5	12-Aug-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	45	CWT00153205	AD
5	12-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	63	CWT00154079	AD

**Appendix 6** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 6. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT Codes	FL(cm)	Label	Recovery Mark
6	1-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00090306	AD
6	1-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00090307	AD
6	1-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	53	CWT00090308	AD
6	1-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	87	CWT00090309	AD
6	1-Jul-25	220288	2021	Luke's Gulch A F	Npt Hatchery	NPT	NA	71	CWT00095107	AD
6	1-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	72	CWT00095108	AD
6	1-Jul-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	56	CWT00095109	AD
6	1-Jul-25	638267	2021	Finch Cr 16.0222	Hoodspport Hatchery	WDFW	NA	66	CWT00095117	AD
6	1-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	57	CWT00153643	AD
6	1-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	72	CWT00153644	AD
6	1-Jul-25	637924	2020	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	82	CWT00153661	AD
6	1-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	74	CWT00153904	AD
6	1-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	69	CWT00153958	AD
6	5-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	62	CWT00088260	AD
6	5-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	68	CWT00088261	AD
6	5-Jul-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	54	CWT00089575	AD
6	5-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	69	CWT00089579	AD

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6	5-Jul-25	637924	2020	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	91	CWT00090310	AD
6	5-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	65	CWT00095110	AD
6	5-Jul-25	637810	2020	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	66	CWT00095158	AD
6	5-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	71	CWT00095159	AD
6	5-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00095160	AD
6	5-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	56	CWT00095161	AD
6	5-Jul-25	637867	2020	Fork Cr 24.0356	Forks Creek Hatchery	WDFW	NA	81	CWT00095162	AD
6	5-Jul-25	211521	2021	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	58	CWT00095163	AD
6	5-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	78	CWT00153902	AD
6	6-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	73	CWT00089513	AD
6	6-Jul-25	637921	2020	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	77	CWT00089514	AD
6	6-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	83	CWT00089515	AD
6	6-Jul-25	637920	2020	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	75	CWT00089516	NA
6	6-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	87	CWT00089525	AD
6	6-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	76	CWT00089526	AD
6	6-Jul-25	637852	2020	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	62	CWT00089576	AD
6	6-Jul-25	637924	2020	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	75	CWT00089578	AD
6	6-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	70	CWT00089581	AD
6	6-Jul-25	638315	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	638314	77	CWT00090311	AD
6	6-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	62	CWT00090312	AD
6	6-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	69	CWT00095164	AD
6	6-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	70	CWT00095166	AD
6	6-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	90	CWT00095407	AD
6	6-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	55	CWT00095408	AD
6	6-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	84	CWT00152884	AD
6	6-Jul-25	638350	2021	Cowlitz R 26.0002	Cowlitz Salmon Hatchery	WDFW	NA	58	CWT00153903	AD
6	6-Jul-25	211596	2021	Stillaguamish R -Sf	Brenner Hatchery	STIL	NA	68	CWT00153905	AD
6	6-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	59	CWT00153906	AD

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6	6-Jul-25	638275	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	81	CWT00153908	AD
6	7-Jul-25	638075	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	211551	54	CWT00089283	Unmarked
6	7-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	76	CWT00089284	AD
6	7-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	58	CWT00090314	AD
6	7-Jul-25	638275	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	72	CWT00090315	AD
6	7-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	63	CWT00090316	AD
6	7-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	71	CWT00090317	AD
6	7-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	62	CWT00095167	AD
6	7-Jul-25	638558	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00152882	AD
6	7-Jul-25	638061	2022	Friday Cr 03.0017	Samish Hatchery	WDFW	638060	57	CWT00152893	AD
6	7-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	69	CWT00153001	AD
6	7-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	71	CWT00153002	AD
6	7-Jul-25	186808	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	62	CWT00153046	AD
6	7-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	60	CWT00153929	AD
6	8-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	60	CWT00089285	AD
6	8-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	86	CWT00089286	AD
6	8-Jul-25	638277	2021	Skykomish R 07.0012	Reiter Ponds	WDFW	NA	69	CWT00089287	AD
6	8-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	58	CWT00089572	AD
6	11-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00090318	AD
6	11-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	76	CWT00090319	AD
6	11-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	71	CWT00090320	AD
6	11-Jul-25	187093	2021	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	87	CWT00090321	AD
6	11-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	74	CWT00090322	AD
6	11-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	59	CWT00090323	AD
6	11-Jul-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	61	CWT00090324	AD
6	11-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	75	CWT00090325	AD
6	11-Jul-25	186805	2021	R-Cowichan R	H-Cowichan River H	CDFO	NA	60	CWT00090326	AD
6	11-Jul-25	638022	2021	Cascade R 03.1411	Marblemount Hatchery	WDFW	NA	NA	CWT00090327	AD
6	11-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	57	CWT00090328	AD
6	11-Jul-25	638039	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	62	CWT00090329	AD

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6	11-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	74	CWT00095169	AD
6	11-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	66	CWT00095170	AD
6	11-Jul-25	638309	2021	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	56	CWT00095171	AD
6	11-Jul-25	186605	2022	R-Robertson Cr	H-Robertson Creek H	CDFO	NA	68	CWT00095172	AD
6	11-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	63	CWT00095173	AD
6	11-Jul-25	638460	2022	East Sound Bay (San)	Glenwood Springs	COOP	NA	60	CWT00095174	AD
6	11-Jul-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	68	CWT00153003	AD
6	11-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	66	CWT00153004	AD
6	11-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	75	CWT00153005	AD
6	11-Jul-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	69	CWT00153006	AD
6	11-Jul-25	638546	2022	Cascade R 03.1411	Marblemount Hatchery	WDFW	NA	67	CWT00153007	AD
6	11-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	68	CWT00153008	AD
6	11-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	65	CWT00153009	AD
6	11-Jul-25	211459	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	211460	65	CWT00153010	AD
6	11-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	81	CWT00153045	AD
6	11-Jul-25	638293	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	77	CWT00153728	AD
6	11-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	60	CWT00153729	AD
6	11-Jul-25	638533	2022	Point Defiance Net Pens	Point Defiance Net Pens	PUYA	NA	57	CWT00153730	AD
6	11-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	68	CWT00153731	AD
6	11-Jul-25	186810	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	58	CWT00153734	AD
6	12-Jul-25	637964	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	60	CWT00089512	AD
6	12-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	68	CWT00089564	AD
6	12-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	79	CWT00089565	AD
6	12-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	70	CWT00089569	AD
6	12-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	73	CWT00089582	AD
6	12-Jul-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	67	CWT00090331	AD
6	12-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	66	CWT00095152	AD
6	12-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	72	CWT00095154	AD

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6	12-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	62	CWT00153724	AD
6	12-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	60	CWT00153733	AD
6	12-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	67	CWT00153907	AD
6	12-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	87	CWT00153930	AD
6	13-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	72	CWT00089506	AD
6	13-Jul-25	638315	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	638314	62	CWT00089509	AD
6	13-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	72	CWT00089510	AD
6	13-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	67	CWT00089511	AD
6	13-Jul-25	637964	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	70	CWT00089563	AD
6	13-Jul-25	211575	2021	Sol Duc R 20.0096	Solduc Hatchery	WDFW	NA	75	CWT00089566	AD
6	13-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	61	CWT00089568	AD
6	13-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	79	CWT00090332	AD
6	13-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	80	CWT00090333	AD
6	13-Jul-25	637810	2020	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	83	CWT00090334	AD
6	13-Jul-25	638309	2021	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	67	CWT00090335	AD
6	13-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	84	CWT00090336	AD
6	13-Jul-25	56592	2022	Spring Cr 29.0159	Spring Cr Nfh	USFWS	056593; 056668; 056669	60	CWT00090337	AD
6	13-Jul-25	186078	2021	R-Alberni In	H-Alberni Inlet Seapen	CDFO	NA	70	CWT00095144	AD
6	13-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	68	CWT00095146	AD
6	13-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	68	CWT00095147	AD
6	13-Jul-25	638061	2022	Friday Cr 03.0017	Samish Hatchery	WDFW	638060	68	CWT00095148	AD
6	13-Jul-25	638279	2021	Wilkeson Cr 10.0432	Clarks Crk Hatchery	PUYA	NA	69	CWT00095150	AD

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6	13-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	75	CWT00095151	AD
6	13-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	75	CWT00095153	AD
6	13-Jul-25	637924	2020	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	79	CWT00095157	AD
6	13-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	60	CWT00152894	AD
6	13-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	62	CWT00152895	AD
6	13-Jul-25	638040	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	64	CWT00153725	AD
6	13-Jul-25	186864	2022	R-Capilano R	H-Capilano River H	CDFO	NA	68	CWT00153727	AD
6	13-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	67	CWT00153732	AD
6	13-Jul-25	186810	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	65	CWT00153763	AD
6	13-Jul-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	72	CWT00153791	AD
6	13-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	73	CWT00153792	AD
6	13-Jul-25	183076	2022	R-L Campbell R	H-Little Campbell River H	CDFO	NA	55	CWT00153793	AD
6	13-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00153797	AD
6	16-Jul-25	637924	2020	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	85	CWT00089527	AD
6	16-Jul-25	638546	2022	Cascade R 03.1411	Marblemount Hatchery	WDFW	NA	NA	CWT00089529	AD
6	16-Jul-25	638030	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	62	CWT00089531	AD
6	16-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	77	CWT00090339	AD
6	16-Jul-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	60	CWT00090340	AD
6	16-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	63	CWT00095140	AD
6	16-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	62	CWT00095141	AD
6	16-Jul-25	638040	2022	Tanner Cr (Bnville)	Bonneville Hatchery	ODFW	NA	61	CWT00095142	AD
6	16-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	74	CWT00095143	AD
6	16-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	60	CWT00152896	AD
6	16-Jul-25	186810	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	62	CWT00153011	AD
6	16-Jul-25	638533	2022	Point Defiance Net Pens	Point Defiance Net Pens	PUYA	NA	59	CWT00153788	AD
6	16-Jul-25	211491	2020	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	211490; 637628; 637811	79	CWT00153796	AD

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6	17-Jul-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	92	CWT00089507	AD
6	17-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	74	CWT00090341	AD
6	17-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	54	CWT00090342	AD
6	17-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	74	CWT00095134	AD
6	17-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00095136	AD
6	17-Jul-25	638266	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	73	CWT00095137	AD
6	17-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	66	CWT00095138	AD
6	17-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	61	CWT00095139	AD
6	18-Jul-25	638537	2022	Lower Elwha Hatch - House	Lower Elwha Hatch - House	ELWHA	NA	55	CWT00089299	AD
6	18-Jul-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	88	CWT00089300	AD
6	18-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	74	CWT00089532	AD
6	18-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	63	CWT00089533	AD
6	18-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	58	CWT00089534	AD
6	18-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	83	CWT00090344	AD
6	18-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	56	CWT00095132	AD
6	18-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	59	CWT00095133	AD
6	19-Jul-25	630050	2023	Friday Cr 03.0017	Samish Hatchery	WDFW	630049	38	CWT00043247	AD
6	19-Jul-25	91965	2021	Salmon R	Salmon R Hatchery	ODFW	NA	74	CWT00089296	AD
6	19-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	76	CWT00089297	AD
6	19-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	73	CWT00089298	AD
6	19-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	70	CWT00090345	AD
6	19-Jul-25	637922	2020	Purdy Cr 16.0005	George Adams Hatchery	WDFW	637923	75	CWT00090346	AD
6	19-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	78	CWT00090347	AD
6	19-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	59	CWT00090348	AD
6	19-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	62	CWT00090349	AD
6	19-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	65	CWT00090350	AD
6	19-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00095130	AD
6	19-Jul-25	638275	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00095131	AD

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6	19-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	78	CWT00152897	AD
6	19-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	66	CWT00153066	AD
6	19-Jul-25	91966	2021	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	65	CWT00153994	AD
6	19-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	77	CWT00153995	AD
6	20-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00089288	AD
6	20-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	66	CWT00089289	AD
6	20-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	72	CWT00089539	AD
6	20-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	70	CWT00089540	AD
6	20-Jul-25	638268	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	68	CWT00089541	AD
6	20-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	71	CWT00095129	AD
6	20-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	63	CWT00153790	AD
6	20-Jul-25	637857	2020	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	76	CWT00153795	AD
6	20-Jul-25	638328	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	NA	CWT00153957	AD
6	20-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	65	CWT00153996	AD
6	23-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	70	CWT00089535	AD
6	23-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	76	CWT00089537	AD
6	23-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	62	CWT00090529	AD
6	23-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	62	CWT00090531	AD
6	23-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	69	CWT00090532	AD
6	23-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	69	CWT00095128	AD
6	23-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	75	CWT00153726	AD
6	23-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	59	CWT00153798	AD
6	24-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	70	CWT00090533	AD
6	24-Jul-25	186810	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	69	CWT00090534	AD
6	24-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	72	CWT00095121	AD
6	24-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00095122	AD

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6	24-Jul-25	211521	2021	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	70	CWT00095123	AD
6	24-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	75	CWT00153781	AD
6	25-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	85	CWT00089290	AD
6	25-Jul-25	638316	2021	Cascade R 03.1411	Marblemount Hatchery	WDFW	638311	60	CWT00089291	AD
6	25-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	75	CWT00089538	AD
6	25-Jul-25	637921	2020	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	73	CWT00089542	AD
6	25-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	64	CWT00095126	AD
6	26-Jul-25	637890	2020	Kendall Cr 01.0406	Kendall Cr Hatchery	WDFW	NA	80	CWT00089292	AD
6	26-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	70	CWT00089293	AD
6	26-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	82	CWT00089294	AD
6	26-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	68	CWT00089543	AD
6	26-Jul-25	638537	2022	Lower Elwha Hatch - House	Lower Elwha Hatch - House	ELWHA	NA	66	CWT00089544	AD
6	26-Jul-25	638032	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	50	CWT00089545	AD
6	26-Jul-25	211493	2020	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	89	CWT00090537	AD
6	26-Jul-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	73	CWT00090538	AD
6	26-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	92	CWT00090539	AD
6	26-Jul-25	56668	2022	Spring Cr 29.0159	Spring Cr Nfh	USFWS	056592; 056593; 056669	64	CWT00095119	AD
6	26-Jul-25	638353	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	65	CWT00095120	AD
6	26-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	78	CWT00095125	AD
6	26-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	68	CWT00153780	AD
6	26-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	67	CWT00153782	AD
6	26-Jul-25	638268	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	70	CWT00153783	AD
6	26-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	54	CWT00153784	AD
6	27-Jul-25	638558	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	56	CWT00089295	AD
6	27-Jul-25	637924	2020	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	83	CWT00089536	AD
6	27-Jul-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	70	CWT00090540	AD

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6	27-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	67	CWT00095105	AD
6	27-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	72	CWT00095118	AD
6	27-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	70	CWT00095409	AD
6	27-Jul-25	638460	2022	East Sound Bay (San)	Glenwood Springs	COOP	NA	63	CWT00153019	AD
6	27-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	63	CWT00153785	AD
6	29-Jul-25	638423	2022	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	54	CWT00090352	AD
6	29-Jul-25	637921	2020	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	73	CWT00152883	AD
6	29-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	63	CWT00152899	AD
6	29-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	72	CWT00152900	AD
6	29-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00153036	AD
6	29-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	78	CWT00153037	AD
6	31-Jul-25	638552	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	73	CWT00090353	AD
6	1-Aug-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	77	CWT00095106	AD
6	1-Aug-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	82	CWT00095116	AD
6	2-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	62	91350	AD
6	2-Aug-25	638316	2021	Cascade R 03.1411	Marblemount Hatchery	WDFW	638311	72	CWT00089550	AD
6	2-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	60	CWT00090354	AD
6	2-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	71	CWT00095115	AD
6	2-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	66	CWT00153786	AD
6	3-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	82	CWT00089339	AD
6	3-Aug-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	70	CWT00089342	AD
6	3-Aug-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	73	CWT00089547	AD
6	3-Aug-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	64	CWT00090355	AD
6	5-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	57	CWT00049811	AD
6	5-Aug-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	73	CWT00049812	AD
6	5-Aug-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	68	CWT00089336	AD

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6	5-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	65	CWT00152321	AD
6	5-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	60	CWT00152322	AD
6	5-Aug-25	186390	2022	R-Alberni In	H-Alberni Inlet Seapen	CDFO	NA	58	CWT00152323	AD
6	5-Aug-25	211587	2021	Mcallister Springs Hatch	Kalama Cr Hatchery	NISQ	NA	77	CWT00152541	AD
6	5-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	76	CWT00152543	AD
6	7-Aug-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	59	CWT00095114	AD
6	8-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	NA	CWT00090356	AD
6	8-Aug-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	62	CWT00095111	AD
6	8-Aug-25	637625	2019	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	66	CWT00095113	AD
6	8-Aug-25	211542	2021	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	70	CWT00095410	AD
6	8-Aug-25	211542	2021	Hoko R 19.0148	Hoko Falls Hatchery	MAKAH	NA	70	CWT00095411	AD
6	8-Aug-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	66	CWT00153069	AD
6	9-Aug-25	638049	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	64	CWT00089333	AD
6	9-Aug-25	211587	2021	Mcallister Springs Hatch	Kalama Cr Hatchery	NISQ	NA	72	CWT00089335	AD
6	9-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	60	CWT00089337	AD
6	9-Aug-25	637964	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	71	CWT00089340	AD
6	9-Aug-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00089341	AD
6	9-Aug-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	76	CWT00089546	AD
6	9-Aug-25	187095	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	68	CWT00089548	AD
6	9-Aug-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	71	CWT00089549	AD
6	9-Aug-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00090357	AD
6	9-Aug-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	80	CWT00095412	AD
6	9-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	55	CWT00095413	AD
6	9-Aug-25	638552	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	48	CWT00152401	AD
6	9-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	71	CWT00152566	AD
6	10-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	62	CWT00089329	AD
6	10-Aug-25	56519	2021	Tsoo-Yess R 20.0015	Makah Nfh On Tsoo-Yess R	USFWS	NA	72	CWT00089332	AD
6	10-Aug-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	80	CWT00089334	AD
6	10-Aug-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	69	CWT00089338	AD
6	10-Aug-25	638327	2021	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	75	CWT00089530	AD

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6	10-Aug-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	78	CWT00089560	AD
6	10-Aug-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	55	CWT00089583	AD
6	10-Aug-25	638423	2022	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	54	CWT00152301	AD
6	10-Aug-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	60	CWT00152565	AD

**Appendix 7** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 7. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT Codes	FL(cm)	Label	Recovery Mark
7	17-Jul-25	186816	2021	R-Shuswap R Low	H-Shuswap River, Middle,	CDFO	NA	81	CWT00040129	AD
7	17-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	71	CWT00040130	AD
7	17-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	69	CWT00040784	AD
7	17-Jul-25	186603	2021	R-Nicola R	H-Spius Creek H	CDFO	NA	63	CWT00044086	AD
7	17-Jul-25	187093	2021	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00044234	AD
7	17-Jul-25	630050	2023	Friday Cr 03.0017	Samish Hatchery	WDFW	630049	53	CWT00044253	AD
7	17-Jul-25	638061	2022	Friday Cr 03.0017	Samish Hatchery	WDFW	638060	71	CWT00044274	AD
7	17-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	68	CWT00044276	AD
7	17-Jul-25	187090	2021	R-Shuswap R Low	H-Shuswap River, Middle	CDFO	NA	78	CWT00044940	AD
7	17-Jul-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	64	CWT00044941	AD
7	17-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	63	CWT00044970	AD
7	17-Jul-25	638061	2022	Friday Cr 03.0017	Samish Hatchery	WDFW	638060	72	CWT00085789	AD
7	17-Jul-25	638551	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	68	CWT00149870	AD
7	17-Jul-25	638061	2022	Friday Cr 03.0017	Samish Hatchery	WDFW	638060	63	CWT00149927	AD
7	18-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	64	CWT00040149	AD
7	18-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	68	CWT00040787	AD
7	18-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	68	CWT00044037	AD
7	18-Jul-25	637869	2021	Cascade R 03.1411	Marblemount Hatchery	WDFW	638021	77	CWT00044038	AD
7	18-Jul-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	54	CWT00044214	AD
7	18-Jul-25	180015	2022	R-Big Qualicum R	H-Big Qualicum River H	CDFO	NA	62	CWT00044281	AD
7	18-Jul-25	187094	2022	R-Shuswap R Low	H-Shuswap River, Middle,	CDFO	NA	72	CWT00044972	AD
7	18-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	76	CWT00044973	AD

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7	18-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	64	CWT00044974	AD
7	18-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	59	CWT00044975	AD
7	19-Jul-25	638077	2022	Elwha R 18.0272	Elwha Hatchery	WDFW	NA	66	CWT00043658	AD
7	19-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	73	CWT00044036	AD
7	19-Jul-25	56668	2022	Spring Cr 29.0159	Spring Cr Nfh	USFWS	056592; 056593; 056669	72	CWT00045000	AD
7	19-Jul-25	183075	2022	R-L Campbell R	H-Little Campbell River H	CDFO	NA	70	CWT00085720	AD
7	19-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	79	CWT00149829	AD
7	19-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	75	CWT00149843	AD
7	19-Jul-25	638333	2021	East Sound Bay (San)	Glenwood Springs	COOP	NA	75	CWT00149936	AD
7	19-Jul-25	211771	2022	Whatcom Cr 01.0566	Whatcom Cr Hatchery	COOP	NA	72	CWT00149938	AD
7	19-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	73	CWT00151349	AD
7	25-Jul-25	185868	2022	R-Nahmint R	H-Robertson Creek H	CDFO	NA	61	CWT00044273	AD
7	25-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	90	CWT00149931	AD
7	25-Jul-25	638552	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	64	CWT00149941	AD
7	25-Jul-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	65	CWT00150003	AD
7	25-Jul-25	638063	2022	Kendall Cr 01.0406	Kendall Cr Hatchery	WDFW	NA	60	CWT00150004	AD
7	1-Aug-25	186809	2022	R-Shuswap R Middle	H-Shuswap River, Middle,	CDFO	NA	66	CWT00040467	AD
7	1-Aug-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	71	CWT00044034	AD
7	1-Aug-25	186813	2022	R-Shuswap R Low	H-Shuswap River, Middle,	CDFO	NA	69	CWT00044233	AD
7	1-Aug-25	638460	2022	East Sound Bay (San)	Glenwood Springs	COOP	NA	51	CWT00085721	AD
7	1-Aug-25	638546	2022	Cascade R 03.1411	Marblemount Hatchery	WDFW	NA	63	CWT00085722	AD
7	1-Aug-25	638061	2022	Friday Cr 03.0017	Samish Hatchery	WDFW	638060	72	CWT00149942	AD

**Appendix 8** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 9. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT Codes	FL(cm)	Label	Recovery Mark
9	17-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00038636	AD
9	17-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	68	CWT00038638	AD
9	17-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	67	CWT00038639	AD
9	17-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00039349	AD
9	17-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	61	CWT00039350	AD
9	17-Jul-25	638036	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	52	CWT00039377	AD
9	17-Jul-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	67	CWT00044971	AD
9	17-Jul-25	211557	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	65	CWT00049476	AD
9	17-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	76	CWT00049478	AD
9	17-Jul-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	66	CWT00049500	AD
9	17-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	64	CWT00049530	AD
9	17-Jul-25	211527	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	61	CWT00049531	AD
9	17-Jul-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	62	CWT00090622	AD
9	17-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	69	CWT00092579	AD
9	17-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	75	CWT00094146	AD
9	17-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	67	CWT00148123	AD
9	17-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	60	CWT00148415	AD
9	17-Jul-25	638277	2021	Skykomish R 07.0012	Reiter Ponds	WDFW	NA	78	CWT00150865	AD
9	17-Jul-25	638309	2021	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	72	CWT00151071	AD
9	17-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	72	CWT00151080	AD
9	17-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00151310	AD
9	17-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	59	CWT00151311	AD
9	17-Jul-25	637921	2020	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	83	CWT00151312	AD
9	17-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	54	CWT00151313	AD
9	17-Jul-25	638558	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	71	CWT00151322	AD
9	17-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	58	CWT00151323	AD
9	17-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	86	CWT00151324	AD

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9	17-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00151325	AD
9	17-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	80	CWT00151326	AD
9	17-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00151333	AD
9	17-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	76	CWT00151480	AD
9	17-Jul-25	637870	2021	Skykomish R 07.0012	Reiter Ponds	WDFW	NA	72	CWT00151481	AD
9	17-Jul-25	638309	2021	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	66	CWT00151482	AD
9	17-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	69	CWT00151664	AD
9	17-Jul-25	638030	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	67	CWT00151674	Unmarked
9	17-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	66	CWT00151776	AD
9	17-Jul-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	71	CWT00151958	AD
9	17-Jul-25	638037	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	55	CWT00151959	AD
9	17-Jul-25	637895	2020	Friday Cr 03.0017	Samish Hatchery	WDFW	637896	70	CWT00151960	AD
9	17-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	70	CWT00151961	AD
9	17-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00151963	AD
9	17-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	54	CWT00153012	AD
9	17-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00153013	AD
9	17-Jul-25	211586	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	79	CWT00153014	AD
9	17-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	65	CWT00153042	AD
9	17-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	74	CWT00153043	AD
9	17-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	54	CWT00153773	AD
9	17-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	60	CWT00153789	AD
9	17-Jul-25	186812	2021	R-Cowichan R	H-Cowichan River H	CDFO	NA	62	CWT00153794	AD
9	17-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	60	CWT00154196	AD
9	17-Jul-25	638544	2022	Cascade R 03.1411	Marblemount Hatchery	WDFW	638545	55	CWT00154262	AD
9	17-Jul-25	638036	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	56	CWT00154650	AD
9	17-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	54	CWT00154654	AD
9	17-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	58	CWT00154655	AD
9	18-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	73	CWT00039348	AD
9	18-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	80	CWT00039375	AD
9	18-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00039376	AD

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9	18-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	61	CWT00090624	AD
9	18-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	NA	CWT00090642	AD
9	18-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	77	CWT00090643	AD
9	18-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	83	CWT00090644	AD
9	18-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	84	CWT00094151	AD
9	18-Jul-25	211527	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	65	CWT00095977	AD
9	18-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	54	CWT00095979	AD
9	18-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	62	CWT00148116	AD
9	18-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	75	CWT00148406	AD
9	18-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	62	CWT00148407	AD
9	18-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	73	CWT00150873	AD
9	18-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	62	CWT00150874	AD
9	18-Jul-25	638553	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	56	CWT00151083	AD
9	18-Jul-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	67	CWT00151084	AD
9	18-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	52	CWT00151085	AD
9	18-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	62	CWT00151086	AD
9	18-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	66	CWT00151087	AD
9	18-Jul-25	637963	2021	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	59	CWT00151314	AD
9	18-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00151317	AD
9	18-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	70	CWT00151335	AD
9	18-Jul-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	70	CWT00151337	AD
9	18-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00151338	AD
9	18-Jul-25	211586	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	78	CWT00151494	AD
9	18-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	71	CWT00151495	AD
9	18-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	70	CWT00151971	AD
9	18-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	54	CWT00151998	AD
9	18-Jul-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	68	CWT00153775	AD
9	18-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	83	CWT00153776	AD
9	18-Jul-25	211550	2022	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	65	CWT00153777	AD
9	18-Jul-25	638065	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638068	70	CWT00154153	AD

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9	18-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	73	CWT00154166	AD
9	18-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	81	CWT00154303	AD
9	19-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	75	CWT00039351	AD
9	19-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	57	CWT00039373	AD
9	19-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	54	CWT00084591	AD
9	19-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	68	CWT00089528	AD
9	19-Jul-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	73	CWT00089567	AD
9	19-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	59	CWT00090625	AD
9	19-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	64	CWT00148102	AD
9	19-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	65	CWT00148115	AD
9	19-Jul-25	187367	2023	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	43	CWT00149001	AD
9	19-Jul-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	59	CWT00149002	AD
9	19-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	79	CWT00149006	AD
9	19-Jul-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	75	CWT00150875	AD
9	19-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	70	CWT00151089	AD
9	19-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	74	CWT00151090	AD
9	19-Jul-25	638553	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	58	CWT00151091	AD
9	19-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	69	CWT00151345	AD
9	19-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	82	CWT00151346	AD
9	19-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	62	CWT00151347	AD
9	19-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	91	CWT00151348	AD
9	19-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	82	CWT00151350	AD
9	19-Jul-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	55	CWT00151351	AD
9	19-Jul-25	638397	2022	Vance Cr 16.0013	McKernan Hatchery	WDFW	NA	53	CWT00151352	Unmarked
9	19-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	72	CWT00151484	AD
9	19-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	74	CWT00151485	AD
9	19-Jul-25	638065	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638068	77	CWT00151488	AD
9	19-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00151655	AD
9	19-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	72	CWT00151656	AD
9	19-Jul-25	638031	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	61	CWT00151955	AD

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9	19-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	62	CWT00151964	AD
9	19-Jul-25	186808	2022	R-Cowichan R	H-Cowichan River H	CDFO	NA	64	CWT00152002	AD
9	19-Jul-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	71	CWT00153038	AD
9	19-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	77	CWT00153040	AD
9	19-Jul-25	638423	2022	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	71	CWT00153041	AD
9	19-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	64	CWT00153774	AD
9	19-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	71	CWT00154184	AD
9	19-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	70	CWT00154269	AD
9	19-Jul-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	76	CWT00154270	AD
9	19-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00154282	AD
9	25-Jul-25	210026	2022	Stillaguamish R -Sf	Brenner Hatchery	STIL	NA	73	CWT00044028	AD
9	25-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00044035	AD
9	25-Jul-25	186823	2021	R-Harrison R	H-Chehalis River H	CDFO	NA	70	CWT00090641	AD
9	25-Jul-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	70	CWT00094644	AD
9	25-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	85	CWT00148113	AD
9	25-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	76	CWT00148455	AD
9	25-Jul-25	210013	2022	Wilkeson Creek Hatchery	Clarks Crk Hatchery	PUYA	NA	71	CWT00148456	AD
9	25-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	73	CWT00148457	AD
9	25-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	70	CWT00149925	AD
9	25-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	72	CWT00149929	AD
9	25-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	81	CWT00149939	AD
9	25-Jul-25	638278	2021	Skykomish R 07.0012	Reiter Ponds	WDFW	NA	76	CWT00151095	AD
9	25-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	57	CWT00151357	AD
9	25-Jul-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	82	CWT00151358	AD
9	25-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	81	CWT00151359	AD
9	25-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	84	CWT00152003	AD
9	25-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00152542	AD

**Appendix 9** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 10. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT Codes	FL(cm)	Label	Recovery Mark
10	17-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	71	CWT00049474	AD
10	17-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	69	CWT00049477	AD
10	17-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00094144	AD
10	17-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	63	CWT00094145	AD
10	17-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	68	CWT00148401	AD
10	17-Jul-25	211491	2020	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	211490; 637628; 637811	70	CWT00148403	AD
10	17-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	65	CWT00148416	AD
10	17-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	73	CWT00148418	AD
10	17-Jul-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00148419	AD
10	17-Jul-25	638558	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00148423	AD
10	17-Jul-25	638049	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	59	CWT00151479	AD
10	17-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	62	CWT00151496	AD
10	17-Jul-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	54	CWT00151499	AD
10	17-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	73	CWT00151670	AD
10	17-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	55	CWT00151671	AD
10	17-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	74	CWT00151777	AD
10	17-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	61	CWT00154172	AD
10	17-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	59	CWT00154301	AD
10	18-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	69	CWT00095972	AD
10	18-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	77	CWT00095978	AD
10	18-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	78	CWT00095993	AD
10	18-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	70	CWT00095994	AD
10	18-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	57	CWT00148412	AD
10	18-Jul-25	638308	2021	Friday Cr 03.0017	Samish Hatchery	WDFW	638026	85	CWT00148413	AD
10	18-Jul-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	72	CWT00148414	AD

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10	18-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	78	CWT00148422	AD
10	18-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	72	CWT00151491	AD
10	18-Jul-25	637872	2020	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00151493	AD
10	18-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	66	CWT00151778	AD
10	18-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	63	CWT00151782	AD
10	18-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	60	CWT00154165	AD
10	18-Jul-25	183076	2022	R-L Campbell R	H-Little Campbell River H	CDFO	NA	72	CWT00154167	AD
10	18-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	55	CWT00154173	AD
10	18-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	69	CWT00154174	AD
10	19-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	76	CWT00084590	AD
10	19-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	70	CWT00148408	AD
10	19-Jul-25	637870	2021	Skykomish R 07.0012	Reiter Ponds	WDFW	NA	57	CWT00151489	AD
10	19-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	72	CWT00151490	AD
10	19-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	63	CWT00151673	AD
10	19-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00153861	AD
10	19-Jul-25	638423	2022	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	60	CWT00154156	AD
10	19-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00154157	AD
10	19-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	54	CWT00154183	AD
10	19-Jul-25	211764	2022	Whitehorse Springs	Whitehorse Pond	STIL	NA	57	CWT00154185	AD
10	19-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	83	CWT00154213	AD
10	24-Jul-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	60	CWT00084592	AD
10	24-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	76	CWT00084593	AD
10	24-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	65	CWT00090627	AD
10	24-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	58	CWT00094150	AD
10	24-Jul-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	80	CWT00095917	AD
10	24-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	72	CWT00148409	AD
10	24-Jul-25	211521	2021	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	73	CWT00148424	AD
10	24-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	72	CWT00148458	AD

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10	24-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	70	CWT00148490	AD
10	24-Jul-25	638551	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	61	CWT00151783	AD
10	24-Jul-25	211521	2021	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	67	CWT00151784	AD
10	24-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	74	CWT00154159	AD
10	25-Jul-25	638031	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	66	CWT00084513	AD
10	25-Jul-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	84	CWT00084516	AD
10	25-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	66	CWT00084555	AD
10	25-Jul-25	220039	2022	Big Canyon Acel Pond	Lyons Ferry Hatchery	NPT	NA	64	CWT00094149	AD
10	25-Jul-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	55	CWT00095980	AD
10	25-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	66	CWT00095991	AD
10	25-Jul-25	637856	2020	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	81	CWT00095992	AD
10	25-Jul-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00148429	AD
10	25-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	65	CWT00148449	AD
10	25-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	62	CWT00148450	AD
10	25-Jul-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	76	CWT00148454	AD
10	25-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	62	CWT00151780	AD
10	25-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	82	CWT00151785	AD
10	25-Jul-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00154305	AD
10	26-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	72	CWT00094148	AD
10	26-Jul-25	638460	2022	East Sound Bay (San)	Glenwood Springs	COOP	NA	75	CWT00094681	AD
10	26-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	72	CWT00094792	AD
10	26-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	74	CWT00148430	AD
10	26-Jul-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00148431	AD
10	26-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	72	CWT00148445	AD
10	26-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	70	CWT00148446	AD
10	26-Jul-25	183075	2022	R-L Campbell R	H-Little Campbell River H	CDFO	NA	71	CWT00148447	AD
10	26-Jul-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	77	CWT00148448	AD
10	26-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	74	CWT00152004	AD
10	26-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	64	CWT00154265	AD

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10	26-Jul-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	72	CWT00154306	AD
10	31-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00084585	AD
10	31-Jul-25	637810	2020	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	67	CWT00084586	AD
10	31-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	71	CWT00084587	AD
10	31-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	76	CWT00148432	AD
10	31-Jul-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	74	CWT00148435	AD
10	31-Jul-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	69	CWT00148436	AD
10	31-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	77	CWT00148437	AD
10	31-Jul-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	76	CWT00150993	AD
10	31-Jul-25	186866	2022	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	68	CWT00151625	AD
10	31-Jul-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00151657	AD
10	31-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00151965	AD
10	1-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	67	CWT00090637	AD
10	1-Aug-25	211521	2021	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	72	CWT00095983	AD
10	1-Aug-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	70	CWT00148434	AD
10	1-Aug-25	637960	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	70	CWT00148438	Unmarked
10	1-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	77	CWT00148439	AD
10	1-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00148440	AD
10	1-Aug-25	638266	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	63	CWT00148441	AD
10	1-Aug-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	75	CWT00148442	AD
10	1-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	75	CWT00148443	AD
10	1-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	63	CWT00148488	AD
10	1-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	65	CWT00149011	AD
10	1-Aug-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	74	CWT00150994	AD
10	1-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	72	CWT00151374	AD
10	1-Aug-25	637960	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	56	CWT00151448	Unmarked
10	1-Aug-25	211459	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	211460	78	CWT00151449	AD
10	1-Aug-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	57	CWT00151450	AD
10	1-Aug-25	638412	2021	Minter Cr 15.0048	Hupp Springs Rearing	WDFW	NA	70	CWT00151452	Unmarked

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10	1-Aug-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	77	CWT00151966	AD
10	1-Aug-25	638485	2023	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	58	CWT00152006	AD
10	1-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	73	CWT00154176	Unmarked
10	1-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	58	CWT00154177	AD
10	1-Aug-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	60	CWT00154178	AD
10	1-Aug-25	638577	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	60	CWT00154179	Unmarked
10	1-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	63	CWT00154395	AD
10	1-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	54	CWT00154653	AD
10	1-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	61	CWT00156901	AD
10	1-Aug-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	58	CWT00156902	AD
10	1-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	57	CWT00156904	AD
10	2-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00090630	AD
10	2-Aug-25	638328	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	71	CWT00090631	Unmarked
10	2-Aug-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	80	CWT00090635	AD
10	2-Aug-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	67	CWT00090636	AD
10	2-Aug-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	66	CWT00094639	AD
10	2-Aug-25	638288	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	211538; 638287	70	CWT00148477	Unmarked
10	2-Aug-25	638287	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	211538; 638288	68	CWT00148481	Unmarked
10	2-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	58	CWT00148483	AD
10	2-Aug-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	75	CWT00148485	AD
10	2-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00148486	AD
10	2-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	72	CWT00150996	AD
10	2-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	59	CWT00151446	AD
10	2-Aug-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	73	CWT00151451	AD
10	2-Aug-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	57	CWT00152007	AD
10	2-Aug-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	74	CWT00154163	AD
10	2-Aug-25	638276	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	84	CWT00154164	AD
10	3-Aug-25	637783	2020	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	87	CWT00094147	Unmarked
10	3-Aug-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	51	CWT00151444	AD

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10	3-Aug-25	638311	2021	Cascade R 03.1411	Marblemount Hatchery	WDFW	638316	72	CWT00151447	Unmarked
10	3-Aug-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	72	CWT00154160	AD
10	3-Aug-25	638533	2022	Point Defiance Net Pens	Point Defiance Net Pens	PUYA	NA	57	CWT00154161	AD
10	9-Aug-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	58	CWT00039354	AD
10	9-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	68	CWT00090632	AD
10	9-Aug-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	60	CWT00090633	AD
10	9-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	72	CWT00148460	AD
10	9-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	65	CWT00148471	AD
10	9-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00148484	AD
10	9-Aug-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	72	CWT00148487	AD
10	9-Aug-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	57	CWT00149014	AD
10	9-Aug-25	638065	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638068	69	CWT00150880	AD
10	9-Aug-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	65	CWT00150998	AD
10	9-Aug-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	64	CWT00150999	AD
10	9-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	60	CWT00151000	AD
10	9-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	53	CWT00151463	AD
10	9-Aug-25	638049	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	54	CWT00151465	AD
10	9-Aug-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	64	CWT00151994	AD
10	9-Aug-25	638281	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00152010	AD
10	9-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00153849	AD
10	9-Aug-25	638032	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	64	CWT00154121	AD
10	9-Aug-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	68	CWT00154186	AD
10	9-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	76	CWT00155045	AD
10	9-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	71	CWT00155046	AD
10	9-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	63	CWT00155047	AD
10	9-Aug-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	62	CWT00155048	AD
10	9-Aug-25	638603	2023	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	45	CWT00156601	Unmarked
10	9-Aug-25	211538	2021	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638287; 638288	68	CWT00156603	AD
10	9-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	65	CWT00156604	AD

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10	9-Aug-25	211463	2023	Clarks Cr 10.0027	Clarks Crk Hatchery	PUYA	NA	53	CWT00156605	AD
10	9-Aug-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	72	CWT00156701	AD
10	10-Aug-25	638577	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	56	CWT00156606	Unmarked
10	16-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	67	CWT00148118	AD
10	16-Aug-25	90014	2022	Big Cr (Lwr Col R)	Big Cr Hatchery	ODFW	NA	72	CWT00148119	AD
10	16-Aug-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	71	CWT00148459	AD
10	16-Aug-25	638049	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	66	CWT00148470	AD
10	16-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00148472	AD
10	16-Aug-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	61	CWT00148478	AD
10	16-Aug-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	66	CWT00148479	AD
10	16-Aug-25	638049	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	73	CWT00152015	AD
10	16-Aug-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	58	CWT00156704	AD
10	16-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	65	CWT00156705	AD
10	16-Aug-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	64	CWT00156708	AD
10	23-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	63	CWT00084556	AD
10	23-Aug-25	638035	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	61	CWT00084557	AD
10	23-Aug-25	638032	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	59	CWT00150884	AD
10	23-Aug-25	211543	2021	Co Line Slu 03.1853A	Marblemount Hatchery	WDFW	NA	88	CWT00151386	AD
10	23-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	76	CWT00151659	AD
10	23-Aug-25	638494	2023	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	49	CWT00151663	AD
10	23-Aug-25	638577	2022	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	NA	55	CWT00151677	AD
10	23-Aug-25	638050	2022	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	61	CWT00151980	AD
10	23-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	58	CWT00152025	AD
10	23-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00156626	AD
10	23-Aug-25	637898	2020	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	637899	75	CWT00156711	AD
10	23-Aug-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	78	CWT00156805	AD
10	23-Aug-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	82	CWT00156806	AD
10	23-Aug-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	72	CWT00156807	AD

**Appendix 10** Coded-wire tag (CWT) recoveries from the June Chinook MSF in Marine Area 11. Note: Not all tags have been processed before the writing of this report.

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Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT codes	FL(cm)	Label	Recovery Mark
11	4-Jun-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00046812	AD
11	4-Jun-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	63	CWT00046813	AD
11	4-Jun-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	60	CWT00046814	AD
11	4-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	62	CWT00050339	AD
11	4-Jun-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	77	CWT00083802	AD
11	4-Jun-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	70	CWT00083812	AD
11	4-Jun-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	70	CWT00083813	AD
11	4-Jun-25	211521	2021	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	75	CWT00083814	AD
11	4-Jun-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	66	CWT00083815	AD
11	4-Jun-25	638270	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	76	CWT00086228	AD
11	4-Jun-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	84	CWT00093717	AD
11	4-Jun-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	77	CWT00093778	AD
11	4-Jun-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00093779	AD
11	4-Jun-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	64	CWT00093786	AD
11	4-Jun-25	211764	2022	Whitehorse Springs	Whitehorse Pond	STIL	NA	61	CWT00149649	AD
11	4-Jun-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	77	CWT00149650	AD
11	5-Jun-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	65	CWT00046815	AD
11	5-Jun-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	70	CWT00083882	AD
11	5-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	67	CWT00085526	AD
11	5-Jun-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	78	CWT00086226	AD
11	5-Jun-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	63	CWT00149618	AD
11	6-Jun-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	65	CWT00046816	AD
11	6-Jun-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	70	CWT00050133	AD
11	6-Jun-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	74	CWT00082917	AD
11	6-Jun-25	211764	2022	Whitehorse Springs	Whitehorse Pond	STIL	NA	64	CWT00083881	AD
11	6-Jun-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	NA	CWT00093777	NA
11	7-Jun-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	68	CWT00082918	AD
11	7-Jun-25	638032	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	65	CWT00093776	AD

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11	7-Jun-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	64	CWT00149652	AD
11	11-Jun-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	66	CWT00046900	AD
11	11-Jun-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	68	CWT00082919	AD
11	11-Jun-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	55	CWT00082920	AD
11	11-Jun-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	72	CWT00082921	AD
11	12-Jun-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	68	CWT00048080	AD
11	12-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	74	CWT00082916	AD
11	12-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	65	CWT00082922	AD
11	12-Jun-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	55	CWT00082924	AD
11	12-Jun-25	211459	2021	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	211460	69	CWT00093001	AD
11	12-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	70	CWT00149653	AD
11	13-Jun-25	638032	2022	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	56	CWT00082923	AD
11	13-Jun-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00090006	AD
11	13-Jun-25	638533	2022	Point Defiance Net Pens	Point Defiance Net Pens	PUYA	NA	67	CWT00093055	AD
11	13-Jun-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	69	CWT00093056	AD
11	13-Jun-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	74	CWT00093072	AD
11	13-Jun-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	63	CWT00093100	AD
11	13-Jun-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	63	CWT00051662	AD
11	14-Jun-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	74	CWT00083880	AD
11	14-Jun-25	638042	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	67	CWT00093057	AD
11	14-Jun-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	82	CWT00093070	AD
11	14-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	69	CWT00149654	AD
11	18-Jun-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	67	CWT00149655	AD
11	20-Jun-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	58	CWT00083879	AD
11	21-Jun-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	58	CWT00090086	AD
11	21-Jun-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	66	CWT00090087	AD
11	24-Jun-25	638072	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	NA	56	CWT00083878	AD
11	30-Jun-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	82	CWT00046979	AD
11	30-Jun-25	638044	2022	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	74	CWT00083877	AD

**Appendix 11** Coded-wire tag (CWT) recoveries from the July-August Chinook MSF in Marine Area 11. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT Codes	FL(cm)	Label	Recovery Mark
11	17-Jul-25	638499	2023	Issaquah Cr 08.0178	Issaquah Hatchery	WDFW	NA	55	CWT00083875	AD
11	17-Jul-25	186427	2020	R-Sooke Hb	H-Sooke Harbour Seapen	CDFO	NA	80	CWT00083876	AD
11	17-Jul-25	638423	2022	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	60	CWT00149657	AD
11	18-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	74	CWT00083866	AD
11	18-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	86	CWT00083867	AD
11	18-Jul-25	638423	2022	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	65	CWT00083868	AD
11	18-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	66	CWT00149658	AD
11	19-Jul-25	638246	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	78	CWT00046909	AD
11	19-Jul-25	638459	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	62	CWT00083869	AD
11	19-Jul-25	211457	2022	Tulalip Cr 07.0001	Bernie Gobin Hatch	TULA	NA	64	CWT00090098	AD
11	19-Jul-25	638037	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	58	CWT00090099	AD
11	24-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	75	CWT00083871	AD
11	24-Jul-25	638066	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	638058	53	CWT00149660	AD
11	25-Jul-25	637687	2020	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	62	CWT00083872	AD
11	26-Jul-25	638324	2021	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	78	CWT00090096	AD
11	27-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	59	CWT00094795	AD
11	27-Jul-25	638274	2021	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	78	CWT00149661	AD
11	29-Jul-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	69	CWT00083873	AD
11	29-Jul-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	70	CWT00090095	AD
11	29-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	61	CWT00094797	AD
11	1-Aug-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	70	CWT00083803	AD
11	1-Aug-25	187367	2023	R-Sandy Cv	H-Sandy Cove Seapen	CDFO	NA	55	CWT00083863	AD
11	1-Aug-25	638076	2022	Voight Cr 10.0414	Voights Cr Hatchery	WDFW	NA	64	CWT00083864	AD
11	1-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	73	CWT00083874	AD
11	2-Aug-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	74	CWT00085520	AD
11	2-Aug-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	78	CWT00086577	AD

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11	2-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	75	CWT00086578	AD
11	2-Aug-25	638284	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	74	CWT00086579	AD
11	2-Aug-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	74	CWT00086580	AD
11	2-Aug-25	638031	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	51	CWT00093058	AD
11	3-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	77	CWT00084582	AD
11	3-Aug-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	63	CWT00092743	AD
11	5-Aug-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	84	CWT00086575	AD
11	5-Aug-25	211537	2021	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638313	75	CWT00086576	AD
11	5-Aug-25	211465	2022	Clarks Crk Hatchery	Clarks Crk Hatchery	PUYA	NA	71	CWT00149663	AD
11	7-Aug-25	211505	2020	Kalama Cr 11.0017	Kalama Cr Hatchery	NISQ	NA	84	CWT00047000	AD
11	7-Aug-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	81	CWT00083862	AD
11	7-Aug-25	638030	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	55	CWT00086574	AD
11	8-Aug-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	61	CWT00151443	AD
11	9-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	64	CWT00151464	AD
11	10-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	68	CWT00151461	AD
11	12-Aug-25	638243	2021	Point Defiance Net Pens	Clarks Crk Hatchery	PUYA	NA	68	CWT00151460	AD
11	13-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	63	CWT00151457	AD
11	13-Aug-25	638043	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	57	CWT00151458	AD
11	13-Aug-25	211551	2022	Grovers Cr Hatchery	Grovers Cr Hatchery	SUQ	638075	69	CWT00151459	AD
11	24-Aug-25	638282	2021	Gorst Cr Rear.Pond-1	Gorst Cr Rearing Pnd	SUQ	NA	71	CWT00046993	AD

**Appendix 12** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 12. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT codes	FL(cm)	Label	Recovery Mark
12	6-Jul-25	180021	2022	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	78	CWT00093775	AD
12	6-Jul-25	638079	2022	Columbia R - General	Wells Hatchery	DCPUD	NA	56	CWT00093784	AD
12	18-Jul-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	75	CWT00092838	AD
12	19-Jul-25	180018	2023	R-Chilliwack R	H-Chilliwack River H	CDFO	NA	47	CWT00092839	AD
12	19-Jul-25	638510	2023	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638508	51	CWT00092840	AD
12	20-Jul-25	211549	2022	Clear Cr 11.0013C	Clear Creek Hatchery	NISQ	638062	60	CWT00086151	AD

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12	20-Jul-25	638459	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	69	CWT00092801	AD
12	26-Jul-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	69	CWT00092841	AD
12	28-Jul-25	638510	2023	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638508	56	CWT00086199	AD
12	29-Jul-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	59	CWT00086187	AD
12	1-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	58	CWT00047005	AD
12	1-Aug-25	638544	2022	Cascade R 03.1411	Marblemount Hatchery	WDFW	638545	51	CWT00047006	AD
12	1-Aug-25	638268	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	66	CWT00086448	AD
12	2-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	66	CWT00092875	AD
12	3-Aug-25	638056	2021	Lyons Ferry Rel.Site	Lyons Ferry Hatchery	WDFW	NA	74	CWT00082603	AD
12	4-Aug-25	638490	2023	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	36	CWT00082604	AD
12	4-Aug-25	638551	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	75	CWT00092742	AD
12	5-Aug-25	638552	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	69	CWT00086188	AD
12	9-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	65	CWT00082605	AD
12	9-Aug-25	638510	2023	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638508	55	CWT00092741	AD
12	10-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	62	CWT00092787	AD
12	11-Aug-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	65	CWT00083970	AD
12	11-Aug-25	638551	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	56	CWT00083971	AD
12	11-Aug-25	638326	2021	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638325	62	CWT00092740	AD
12	13-Aug-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	72	CWT00092876	AD
12	13-Aug-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	73	CWT00092877	AD
12	14-Aug-25	638552	2022	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	58	CWT00082606	AD
12	16-Aug-25	637857	2020	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	74	CWT00050753	AD
12	20-Aug-25	638267	2021	Finch Cr 16.0222	Hoodsport Hatchery	WDFW	NA	72	CWT00092805	AD

**Appendix 13** Coded-wire tag (CWT) recoveries from the Chinook MSF in Marine Area 13. Note: Not all tags have been processed before the writing of this report.

Area	Recovery Date	Tag Code	Brood Year	Release Site	Rearing Hatchery	Release Agency	DIT codes	FL(cm)	Label	Recovery Mark
13	21-May-25	638312	2021	Big Soos Cr 09.0072	Soos Creek Hatchery	WDFW	638317	75	CWT00083817	AD
13	23-May-25	638572	2022	Purdy Cr 16.0005	George Adams Hatchery	WDFW	638571	72	CWT00083816	AD
13	5-Jun-25	638041	2022	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	67	CWT00086227	AD
13	13-Jun-25	638273	2021	Chambers Cr 12.0007	Garrison Hatchery	WDFW	NA	91	CWT00093071	AD
13	15-Jun-25	638459	2022	Wallace R 07.0940	Wallace R Hatchery	WDFW	NA	67	CWT00093002	AD
13	15-Jun-25	638033	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	64	CWT00093785	AD
13	12-Jul-25	638323	2021	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	67	CWT00149651	AD
13	19-Jul-25	638556	2022	Minter Cr 15.0048	Minter Cr Hatchery	WDFW	NA	55	CWT00090090	UNK
13	24-Jul-25	638074	2022	Deschutes R 13.0028	Tumwater Falls Hatchery	WDFW	NA	46	CWT00149659	AD
13	28-Aug-25	638283	2021	Gorst Cr Rear.Pond-2	Gorst Cr Rearing Pnd	SUQ	NA	79	CWT00046977	AD