

Washington State Sport Catch Report 2020



by **Eric Kraig**
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WASHINGTON STATE SPORT CATCH REPORT 2020

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INTRODUCTION

The Washington State Sport Catch Report was first published in 1967. The report originally provided salmon catch estimates, which were and still are based on data from catch record cards (punch cards). In 1975, marine fish sport harvest estimates were added to the report, followed by shellfish estimates in 1976. Marine fish and intertidal shellfish sport harvest estimates are based on field and creel surveys. In 1994, with the merger of the departments of Fisheries and Wildlife, steelhead sport harvest estimates were added to the report. Now, catch record card data are collected for salmon, sturgeon, steelhead, Dungeness crab and halibut. The card data is supplemented with field or creel survey data or telephone surveys where available to improve recreational harvest estimate accuracy. The sport harvest estimates for salmon, steelhead, sturgeon, marine fish and shellfish are produced at varying times of each year.

The 2020 sport estimates reflect harvest for the “License Year” which ran from April 1, 2020 through March 31, 2021. These April-March license years have been used since 2000. Prior to that, salmon and marine fish estimates were made on a calendar year basis and steelhead estimates were made using a May-April year.

Year 2020 turned out to be a challenging year for fishery managers and anglers alike. The Covid-19 global pandemic began in March 2020, right before the start of the new fishing year. Fishing was closed statewide on March 25. No fisheries were open in April 2020. Some areas reopened on May 5, but other areas remained closed, depending on advisories by local health departments. Even after reopening, some areas were less accessible due to boat ramp closures and other restrictions.

Sport Licenses and Catch Record Cards

In 2020, the following licenses and catch record cards were required to fish in Washington:

- Saltwater license: Required for saltwater fishing, for all anglers aged sixteen and over. Available for residents, resident seniors (70 and older), and non-residents. Catch record cards required for salmon, steelhead, sturgeon and halibut, for anglers of all ages.
- Freshwater license: Required for freshwater fishing, for all anglers aged sixteen and over. Available for residents, resident seniors (70 and older), and non-residents. Catch record cards required for salmon, steelhead and sturgeon, for anglers of all ages.
- Shellfish/seaweed license: Required for harvesters aged sixteen and over. Available for residents, resident seniors (70 and older), and non-residents. Allows the holder to harvest clams, mussels, oysters, shrimp, crab, squid, other shellfish, and seaweed. In addition, a Puget Sound crab endorsement and catch record card was required to harvest Dungeness crab in Marine Areas 5-13.
- Combination license: Allows anglers to fish in both saltwater and freshwater and to harvest shellfish and seaweed. Available for both residents and non-residents aged fifteen and over.
- Fish catch record cards were required for salmon, steelhead, sturgeon and halibut. Each species group could be issued as a separate card, or included together on one card. Separate catch record cards were required for recording Dungeness crab in Puget Sound. Separate crab cards were required for the summer and fall/winter seasons

In 2001 WDFW implemented the Washington Interactive Licensing Data (WILD) system to electronically capture recreational license issuance information at the point of sale. The catch record card remained the same paper document distributed by sport license vendors, but demographic data about persons receiving the cards became available almost immediately.

Table 1 lists license sales for the license year which ran from April 1, 2020 through March 31, 2021. Table 2 provides counts for the numbers of fish and crab catch cards issued going back to 1971. Table 3 shows the return rate, expansion factor, and non-response bias correction factors for the 2020-2021 cards.

METHODS

Catch Record Cards

Card Issuance

Catch cards are required for all anglers fishing for salmon, steelhead, sturgeon, or halibut. Separate crab catch cards are required for Dungeness crab fishing in Puget Sound. The catch card requirement applies to everyone, including anglers under the age of fifteen who are not required to purchase a fishing license. The first catch card issued to an angler is free with the purchase of a license. If an angler fills the initial card with catch, additional cards can be purchased for a fee. Sturgeon and halibut have annual catch limits, so additional cards are not available for these species.

Most catch cards are issued from the Washington Interactive Licensing Database (WILD) system. WILD-issued cards include the angler's name, city of residence, and their WILD ID, a unique identifier assigned to each angler in the system. Each issued card is assigned a unique document number.

Pre-printed catch cards are provided to charter boat operators and fishing guides to be issued along with one-day charter licenses. Anglers write their name/address information on the charter card "stub" which is retained by the operator and sent back to the agency. The same pre-printed cards may also be issued to anglers that purchase "Hot Key" licenses. These are temporary licenses sold through the WILD system, but without the requirement for an angler entry in the database. The angler name and address is entered on the stub, just as with charter licenses. Charter and hot key cards make up about three to five percent of the total card issuance annually.

Card Returns

Fish catch cards are due back on April 30, one month after the end of the license year, which runs from April 1 through March 31. Crab catch cards are issued for two separate seasons. Summer season cards are due back by October 1; winter season cards are due back by February 1. Cards can be mailed in or dropped off at WDFW offices. Online reporting is available for crab cards, but not yet for fish cards.

For fish catch cards, the CRC unit randomly selects twenty-five percent of the cards issued each year for use in generating catch estimates. These cards are referred to as the "in-sample" group. Cards are selected based on the last two digits of the document numbers printed on the cards. Two reminder postcards are sent out to anglers with cards in the in-sample range, in an effort to increase return rates. For crab catch cards, all reports are processed, including both returned card and those reported online.

Estimation

Once the cards have been returned, the expansion factor is calculated. This is the ratio of total cards issued to cards returned. For cards issued through the Wild system, calculating the total sold is straightforward; canceled or voided cards are subtracted from the total issuance number to arrive at the number of valid cards that were available for use. For charter cards, the total number of issued cards is estimated. Some, but not all, of the name/address stubs are returned by the charter operators, and some, but not all, of the cards are returned by anglers. Thus, total issuance for charter cards is estimated as follows:

N_T = total charter/hot key cards issued

N_r = in-sample name/address stubs returned

n_v = total in-sample cards voluntarily returned (returned prior to reminder mailings)

n_m = voluntary returns that match returned stubs

It is assumed that:

$$\frac{n_m}{n_v} = \frac{N_r}{N_T}$$

Therefore:

$$N_T = \frac{N_r n_v}{n_m}$$

Charter and hotkey cards make up less than five percent of the total card issuance; thus, we assume that the uncertainty in the numbers does not have a large impact in the overall estimation process.

Catch from the returned in-sample cards is expanded out across all issued cards. The expansion factor is one over the in-sample return rate multiplied by the twenty-five percent sample rate. In-sample return rates in recent years have been in the 30 to 40 percent range. In 2020 the return rate was about 30%, so the expansion factor was:

$$\frac{1}{0.30 (0.25)} = 13.34$$

Estimates are generated for each catch area, species, and time period. The following estimation method was implemented after a five-year intensive study conducted in the late 1980's (Conrad, Alexandersdottir, 1993). Variance is calculated using a random group method (Wolter, 1985) in which the in-sample returned cards are randomly assigned to four subgroups. Estimates are then calculated separately for each subgroup as well as for the entire group, and the variance is calculated using the deviations of the sample estimates from the over-all estimate.

In general, cards that are not returned have a lower mean catch per card than those that are returned. To adjust for this non-response bias, a correction factor is applied. Different correction factors are used for different species.

The in-sample cards are randomly subdivided into four groups, and estimates are calculated using each of those groups as follows:

- N_i = number of cards in subsample i
- N_T = total number of cards issued
- h_i = number of fish for subsample i
- H_i = estimated harvest based on subsample i
- H_i = non-response bias correction factor

Then the total estimate of harvest is generated as follows:

- H_T = total estimate
- V_{H_T} = variance of total estimate

The above process generates estimates for total harvest for each area/species/time period combination. For historical reasons, the time periods differ for each species type. Calendar months are used for steelhead, sturgeon, and crab. For salmon, statistical months or statistical weeks are often used. Statistical weeks (defined as Monday-Sunday) are consecutively numbered weeks beginning on January 1. Statistical months are made up of a set number of statistical weeks, which do not necessarily coincide with calendar month start and end dates.

REVIEW

The CRC catch estimates for each area/time period/species are routed to biologists (both state and tribal) for review. The biologists are asked to list those entries that are questionable, either because the area was closed to fishing during that time period or because the likelihood of encountering that species at that time/place was low. The review comments are compiled and used to draw up a list of those anglers reporting the questionable catch. CRC staff attempt to contact these anglers by phone in order to resolve the issues. If the anglers cannot be reached, the biologists make the decisions on how to handle the reports; generally if the catch is biologically feasible the report is left as is, otherwise it is changed to "unknown". Once the calls are completed to resolve possible errors, and the individual catch records are corrected accordingly, the estimation process is rerun.

Salmon

Catch record card estimates are generated for both marine and freshwater areas. In areas where regular long-standing creel surveys are conducted, the catch card numbers are replaced with the estimates generated from the creel surveys. In marine areas, creel estimates were used in Areas 1-4 (not including Willapa Bay or Grays Harbor) and for some Puget Sound fisheries, primarily mark-selective chinook fisheries in the summer and winter months. In freshwater, creel estimates are used for catch in the Columbia River below Bonneville Dam.

Steelhead

Steelhead estimates are generated from catch card returns, as described above. Since steelhead harvest numbers are quite small for many streams, the estimates are first generated for entire river systems. The estimates are then broken out across the individual streams by using catch reported from all returned cards, both those that are in the sample group, and those that are out of sample.

Steelhead are categorized as “summer-run” or “winter-run” based on the month of harvest. In general, fish caught from May through October are considered summer-run and fish caught from November through April are considered winter-run. For most areas in the Columbia system above Bonneville Dam, all fish are considered summer-run.

Sturgeon

Sturgeon estimates are generated from catch card returns, as described above. Retention of Green Sturgeon is now prohibited statewide, so most reported fish are White Sturgeon. Creel estimates are used for the lower Columbia River, up to McNary Dam.

Marine Fish

Marine fish are those species that live their entire lives in salt water. There are four general groups of marine fish for management purposes: 1) bottomfish, which are species such as rockfish, lingcod and flounder; 2) forage fish, which are small schooling fish such as herring and smelt; 3) pelagic fish such as tuna and mackerel; 4) Pacific halibut.

The recreational catch of bottomfish, halibut, and tuna in ocean waters (Catch Area 1-4) is estimated from port-based creel and effort surveys. The estimates are made for each of the four main coastal fishing areas: Ilwaco, Westport, La Push, and Neah Bay.

The Puget Sound (Catch Areas 5-13) catch of bottomfish is estimated using a combination of two surveys: a creel survey of anglers to determine the catch rate and species composition and a phone survey of licensed anglers to determine total fishing effort. Halibut catch is estimated by combining creel data with on-the-water effort surveys. Catch record card estimates are also generated for halibut, but these numbers are not used for the published estimates.

Recreational catch of forage fish is not routinely monitored and no harvest estimates are available.

Crab

Catch record card returns are used to estimate Dungeness crab harvest in Puget Sound. Estimates are generated for two seasons: summer, which generally runs from June through Labor Day, and winter, which runs from the day after Labor Day through December 31. A ten-dollar penalty is assessed for failure to report, so all returned cards and online reports are processed and used for estimation. Non-response bias varies depending on return rate.

Estimates are not available for recreational catch of Dungeness crab from the coast or the Columbia River mouth, or for other crab species such as Red Rock or Tanner Crab.

Shrimp

Puget Sound spot shrimp estimates are calculated from boat ramp creel surveys combined with effort estimates generated by aerial boat counts or on-the-water buoy counts.

Clams and Oysters

Coastal razor clam harvest estimates are generated by combining effort estimates (digger trips) with catch per trip numbers from creel surveys.

Puget Sound clam and oyster harvest estimates are generated for actively managed beaches. Aerial surveys are used to estimate effort, and creel checks are used to determine catch per trip. For beaches that are passively managed, only effort estimates are generated.

Ocean Catch Data

Sport catch data from coastal areas 1 – 4 were reported using “port sampling” (creel survey) catch estimates. Such estimates were derived by monitoring daily landings at four coastal ports: Ilwaco, Westport, La Push, and Neah Bay. Catch is reported in the area where the fish was caught and not the area where it was landed.

Statistical Months and Statistical Weeks

Some catch data (i.e. salmon and bottomfish) are reported using statistical months or statistical weeks. Statistical weeks (defined as Monday-Sunday) are consecutively numbered weeks beginning on January 1 and continuing through week 53 or 54, ending on December 31. The first and last weeks of any year usually contain less than 7 days. Statistical months are made up of a set number of statistical weeks, which approximate calendar months but do not coincide with calendar month start and end dates. For example, in 2020, the statistical month of January begins January 1 and ends February 2 and the statistical month of February starts on February 3 and ends March 2. Due to the differences between calendar and statistical months, some catch may be reported during what appears to be a closed period.

Salmon

Annual sport salmon catch estimates for 1971 through 2020 are shown in Table 4. Between April 1, 2020, and March 31, 2021 a total of 150,834 salmon were caught in marine areas, and 221,450 salmon were caught in freshwater. The marine totals by species, as shown in Table 5, are: 28,082 chinook; 120,497 coho; 2,043 chum; 25 pink; 0 sockeye; and 185 jacks (all species combined). Freshwater species breakdowns are: 80,827 chinook; 52,822 coho; 4,368 chum; 0 pink; 60,969 sockeye; 22,664 jacks (all species combined).

Catch record card returns are used to estimate sport salmon catch in marine and freshwater areas. For some areas, the catch cards numbers are replaced with estimates based on creel surveys. In marine areas, creel estimates were used in Areas 1-4 (not including Willapa bay or Grays Harbor), and for many of the Puget Sound fisheries including the summer months in Area 5, 9, 10 and 11.

Sturgeon

On the new combined sport catch record card, sturgeon fishers were required to record their catch statewide. The total sport harvest for 2020, based on creel surveys and catch record card returns, was 1,329 fish. Sturgeon retention was only allowed in the Columbia and Snake River systems.

Steelhead

Harvest estimates for sport-caught summer and winter steelhead are based on catch record card returns. Steelhead caught during the months of May through October are considered “summer-runs,” designated S. Steelhead caught from November through April are considered “winter-runs,” designated W, with the exception of steelhead caught above Bonneville Dam on the Columbia River, where all steelhead are considered “summer-runs,” because of run and spawn timing.

Table 31 presents steelhead sport harvest estimates for the 2020-2021 season geographically by stream and river system. Monthly estimate totals are given for marked and unmarked steelhead.

Marine Fish

Marine fish are those species of fish which live their entire lives in salt water. There are four general groups of marine fish for management purposes: 1) bottomfish, which are species such as rockfish, lingcod and most species of sole and flounder; 2) forage fish, which are small, schooling fish such as herring and smelt; 3) tunas and mackerels; 4) Pacific halibut.

The recreational catch of bottomfish and halibut in ocean waters (Catch Areas 1-4) is estimated from marine surveys (Table 35 and 36). The estimates are made for each of the four main coastal fishing areas: Ilwaco, Westport, La Push and Neah Bay.

The Puget Sound (Catch Areas 5-13) catch of bottomfish, excluding halibut, is estimated using a combination of two surveys: a creel survey of anglers to determine the catch rate and species composition and a phone survey of licensed anglers to determine total fishing effort. These estimates are shown in Table 37. The recreational catch of forage fish is not routinely monitored and no harvest estimate is available.

Shellfish

Razor clam harvest on the coastal beaches is summarized in Table 38. During the fall of 2020 and the spring of 2020 81,508 digging trips resulted in a harvest of 1,222,732 clams, for an average of 15 clams per trip.

Puget Sound recreational clam and oyster harvest estimates are shown in Table 39. Harvest totals for Manila and native littleneck clams, butter clams, cockles, softshell clams, horse clams, geoducks and oysters are shown for public access beaches. Estimates show 100,289 sport harvester trips gathered 240,912 total pounds of clams and 760,613 oysters in 2020 on the monitored beaches.

The Puget Sound and Hood Canal shrimp fishery harvest is reported in Table 40. Shrimpers caught 201,983 pounds of shrimp between May and September. The sport crab fishery in the Puget Sound areas is summarized in Table 41. Crabbers harvested an estimated 1,649,095 pounds of Dungeness crab.

REFERENCES

Conrad, R. and M. Alexandersdottir. 1993. Estimating the Harvest of Salmon by the Puget Sound Sport Fishery in Puget Sound: Evaluation and Recommendations. Northwest Fishery Resource Bulletin, Manuscript Series Report No. 1. 82 p.

Wolter, K.M. 1985. Introduction to Variance Estimation. In: Springer Series in Statistics. Springer-Verlag. New York. 427 p.

SPORT LICENSES

Table 1. Number and Value of Sport Fishing Licenses Sold in Washington.

April 1, 2020 - March 31, 2021 - License Year			
Type of License	Price	Number Sold	Value
Saltwater			
Resident	\$30.05	33,210	\$830,250
Non-Resident	\$59.75	2,299	\$119,548
Senior	\$8.05	4,928	\$24,640
Freshwater			
Resident	\$29.50	379,361	\$9,484,025
Non-Resident	\$84.50	12,467	\$935,025
Senior	\$7.50	32,466	\$162,330
Shellfish/Seaweed			
Resident	\$17.40	96,819	\$968,190
Non-Resident	\$36.10	4,937	\$133,299
Senior	\$7.50	10,862	\$54,310
Combination (Saltwater/Freshwater/Shellfish)			
Resident	\$55.35	126,039	\$5,671,755
Fish Washington	\$69.55	60,431	\$1,545,896
Get Outdoors	\$236.18	4,959	\$720,569
Non-Resident	\$124.65	4,293	\$463,644
Senior	\$19.05	21,780	\$326,700
Disabled/Veteran - Res	\$11.35	17,284	\$86,420
Disabled/Veteran - NR	\$55.35	435	\$19,575
Youth	\$8.05	12,303	\$61,515
Short-term Combination			
1-day Resident	\$11.35	45,348	\$362,784
1-day Non-Resident	\$20.15	26,142	\$418,272
2-day Resident	\$15.75	8,960	\$107,520
2-day Non-Resident	\$28.95	8,864	\$212,736
3-day Resident	\$19.05	10,483	\$157,245
3-day Non-Resident	\$35.55	14,390	\$431,700
Razor Clam			
Annual Resident	\$14.10	10,993	\$87,944
Annual Non-resident	\$21.80	1,316	\$21,939
3-day	\$9.70	6,017	\$29,655
PS Crab Endorsement			
Annual	\$8.75	129,001	\$967,508
1-5 day	\$3.80	9,478	\$28,434
Catch Cards with Halibut			
All	\$5.00	36,553	\$182,765
Charter/Guide Stamps			
Charter/Guide Stamps	\$8.50	20,915	\$177,778
Two-Rod Endorsements			
Resident / Non-resident	\$14.80	81,390	\$1,058,070
Senior	\$6.00	14,712	\$73,560
Columbia River Endorsements			
Resident / Non-resident	\$8.75		
Senior / Youth	\$7.10		
Duplicates			
Additional Catch Cards	\$12.60	15,943	\$175,373
Licenses	\$9.70	227	\$1,249
Total		1,265,605	\$26,102,223

*Value does not include service charges and other fees that are included in the listed customer price.

TECHNICAL DATA

Table 2. Number of Catch Record Cards Issued 1971-2020

Year	Salmon	Steelhead	Sturgeon
1971	541,600	145,647	
1972	536,750	153,977	
1973	568,825	165,671	
1974	562,375	154,051	
1975	576,075	no data	
1976	660,150	no data	
1977	641,050	no data	
1978	580,375	130,000	
1979	487,875	136,000	
1980	433,700	139,500	
1981	463,561	132,000	
1982	481,915	100,000	
1983	481,025	101,800	
1984	364,286	133,400	
1985	403,523	121,500	
1986	431,898	100,500	
1987	475,459	102,000	
1988	486,356	108,182	33,195
1989	509,534	106,666	35,576
1990	497,215	98,362	32,421
1991	489,394	98,328	32,396
1992	419,986	98,933	37,615
1993	447,986	94,913	43,067
1994	244,629	87,093	54,837
1995	416,707	101,303	62,572
1996	333,773	92,858	69,639
1997	331,511	68,341	76,806
1998	265,296	85,636	79,264
1999-2000	352,003	183,520	132,503
	Combined	Crab - Summer	Crab - Winter
2000-2001*	539,898		
2001-2002	827,443		
2002-2003	767,465		
2003-2004	799,326		
2004-2005	715,395		
2005-2006	686,831		
2006-2007	672,753		
2007-2008**	640,893	210,327	157,712
2008-2009	603,539	210,893	207,143
2009-2010	729,319	236,665	89,259
2010-2011	574,969	208,458	70,731
2011-2012	632,564	230,355	28,514
2012-2013	566,372	200,711	27,711
2013-2014	631,536	214,692	29,638
2014-2015	606,471	213,741	35,371
2015-2016	636,596	232,619	36,397
2016-2017	499,989	216,949	26,591
2017-2018	541,830	215,929	23,277
2018-2019	498,791	200,962	24,620
2019-2020	499,128	192,794	23,578
2020-2021	579,430	213,823	36,458

*Starting with the 2000-2001 season, all species were combined on a single card.

**Starting with the 2007-2008 season, separate cards were issued for Dungeness Crab, for both the summer season and the fall/winter season.

Table 3. 2020-2021 Catch Record Card Technical Data

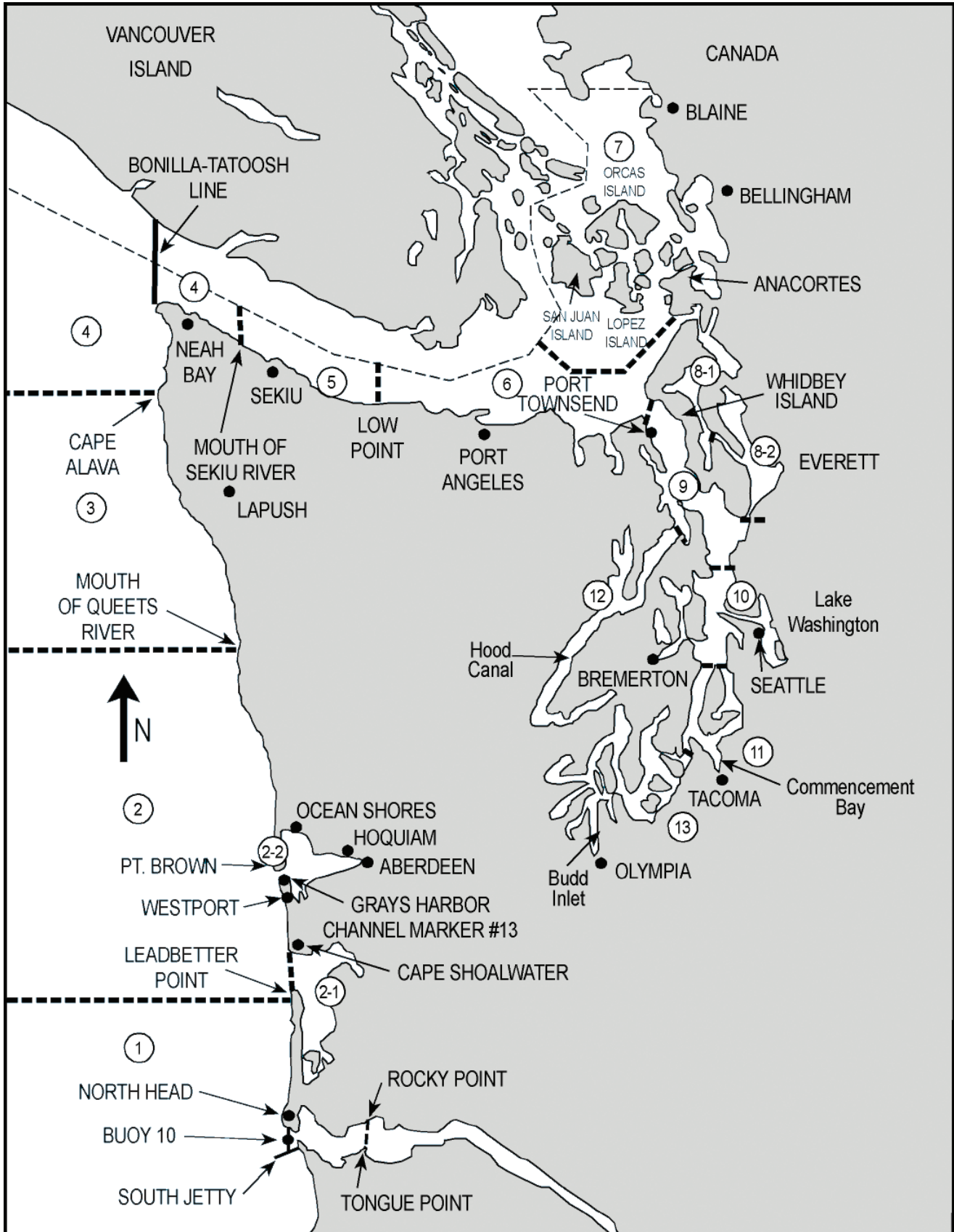
Cards Issued	579,430
In-sample cards	143,436
In-sample cards returned	39,146
Expansion Factor (Cards Issued / In-sample Returns)	14.80
Non-reporting bias correction factors	
Salmon - Marine Area 5	1.00
Salmon - Puget Sound Marine Areas	1.46
Salmon - Freshwater, Grays Harbor, Willapa Bay	1.20
Steelhead	0.98
Sturgeon	1.00

Salmon



MAP OF SALMON CATCH RECORD CARD AREAS

MARINE WATERS ONLY



1	ILWACO	West of the Buoy 10 line at the Columbia River mouth, north to Leadbetter Point.
2	WESTPORT-OCEAN SHORES	From Leadbetter Point north to the Queets River, excluding Willapa Bay and Grays Harbor.
2-1	WILLAPA BAY	East of a line from Leadbetter Point to Cape Shoalwater.
2-2	GRAYS HARBOR	East of a line from the tip of the North Jetty to exposed end of the South Jetty.
3	LA PUSH	From the Queets River north to Cape Alava.
4	NEAH BAY	From Cape Alava north and inside Juan de Fuca Strait to the Sekiu River.
5	SEKIU AND PILLAR POINT	From mouth of the Sekiu River east to Low Point, mouth of the Lyre River.
6	EAST JUAN DE FUCA STRAIT	From Low Point east to the Partridge Point - Point Wilson line north to the line from Trial Island (near Victoria B.C.) - Vessel Traffic Separation Buoy "R" - Smith Island to the Lawson Reef Buoy to Northwest Island to the Initiative 77 marker on Fidalgo Island.
7	SAN JUAN ISLANDS	All marine waters north of the Trial Island line described under Area 6 to the United States-Canada boundary.
8-1	DECEPTION PASS, SKAGIT BAY	From West Point to Reservation Head eastward through Deception Pass, including all waters of Swinomish Slough and Skagit Bay, and the portion of Saratoga Passage north and west of a line from East Point Light to light on Camano Island (Saratoga Pass Light #4FI Red 4 Sec.).
8-2	PORTS SUSAN AND GARDNER	East of East Point Light-Camano Island Light line (described in 8-1 above) and north of the Possession Point-Shipwreck line (described in 9 below).
9	ADMIRALTY INLET	All waters inside and south of the Partridge Point - Point Wilson line, south and west of a line from Possession Point 110° true to shipwreck, north of the Hood Canal Bridge, and north of the Apple Cove Point-Edwards Point line.
10	SEATTLE-BREMERTON AREA	South from the Apple Cove Point-Edwards Point line to a line projected true east- west through the north tip of Vashon Island.
11	TACOMA-VASHON ISLAND	South from a line projected true east west through the north tip of Vashon Island to the Tacoma Narrows Bridge.
12	HOOD CANAL	All waters south of the Hood Canal Bridge.
13	SOUTH PUGET SOUND	All waters south of Tacoma Narrows Bridge.

FRESHWATER AREAS

RIVERS OR STREAMS OR LAKES - Name of river, stream or lake, except for Buoy 10

BUOY 10 (1A)

From Buoy 10 Line to Rocky Point-Tongue Point Line

Table 5. Total 2020-2021 Sport Salmon Catch

Marine Area	Chinook	Coho	Chum	Pink	Sockeye	Chinook Jacks	Coho Jacks	Total Salmon	Marine Angler Trips	Salmon per Trip
Ilwaco-Ocean (Area 1)	740	9,196						9,936	8,996	1.10
Westport (Area 2)	4,727	7,805		2				12,534	17,146	0.73
Willapa Bay (Area 2.1)	718	668				37	49	1,472	N/A	
Grays Harbor (Area 2.2)	337	2,167	34			12	87	2,637	N/A	
LaPush (Area 3)	13	138						151	143	1.06
Neah Bay (Area 4)	2,004	3,111						5,115	6,885	0.74
Subtotal Coast*	8,539	23,085	34			49	136	31,845	33,170	0.84
Sekiu-Pillar Point (Area 5)	5,263	36,752		3				42,018	45,838	0.92
East Juan de Fuca (Area 6)	2,292	5,365						7,657	8,460	0.91
San Juan Islands (Area 7)	1,691	10,827		10				12,528	25,559	
Deception Pass, Hope Island (Area 8-1)										
Port Susan & Port Gardner (Area 8-2)	441							441	845	0.52
Admiralty Inlet (Area 9)	3,995	6,685						10,680	51,614	0.21
Seattle-Bremerton (Area 10)	1,864	29,951	145	4				31,964	54,582	0.59
Tacoma-Vashon Island (Area 11)	2,090	3,700						5,790	34,795	0.17
Hood Canal (Area 12)	601	3,674	236	8				4,519	4,004	1.13
South Puget Sound (Area 13)	1,306	458	1,628					3,392	4,079	0.83
Subtotal Puget Sound	19,543	97,412	2,009	25				118,989	229,776	0.52
Marine Area Totals*	28,082	120,497	2,043	25		49	136	150,834	262,946	0.57
Freshwater Totals	80,827	52,622	4,368		60,969	11,265	11,399	221,450	N/A	
Grand Totals	108,909	173,119	6,411	25	60,969	11,314	11,535	372,284	N/A	

*Salmon per trip is calculated after subtracting the catch totals for Willapa Bay and Grays Harbor, where angler trip data is not available.

Table 6. 2020 Sport Salmon Catch, Area 1 - Ilwaco: Ocean

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 21	2020	106					106	322	0.33
June 28	2020	105					105	317	0.33
July 5	2020	133	1,435				1,568	1,774	0.88
July 12	2020	209	3,985				4,194	2,878	1.46
July 19	2020	53	1,155				1,208	1,246	0.97
July 26	2020	134	2,621				2,755	2,459	1.12
Total		740	9,196				9,936	8,996	1.10

Table 7. 2020 Sport Salmon Catch, Area 1 - Ilwaco: River (Buoy 10)

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
August 16	2020	1,270	99				1,369	6,379	0.21
August 23	2020	1,307	661				1,968	10,018	0.20
August 30	2020	1,619	859				2,478	6,629	0.37
September 6	2020	345	933				1,278	4,232	0.30
September 13	2020								
September 20	2020	4	184				188	791	0.24
September 27	2020	3	91				94	972	0.10
Sep 28-Oct 31	2020	3	157				160	488	0.33
Total		4,551	2,984				7,535	29,509	0.26

Table 8. 2020 Sport Salmon Catch, Area 2 - Westport

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 21	2020	33					33	417	0.08
June 28	2020	15					15	156	0.10
July 5	2020	130	95				225	567	0.40
July 12	2020	498	580				1,078	1,485	0.73
July 19	2020	717	687				1,404	1,484	0.95
July 26	2020	778	698				1,476	2,130	0.69
August 2	2020	835	533	2			1,370	2,356	0.58
August 9	2020	312	1,015				1,327	1,470	0.90
August 16	2020	296	619				915	1,378	0.66
August 23	2020	549	659				1,208	1,403	0.86
August 30	2020	88	618				706	1,034	0.68
Aug 31-Sept 13	2020	388	2,095				2,482	2,400	1.03
September 20	2020	73	139				212	685	0.31
September 27	2020	8	46				53	120	0.44
October 4	2020	6	22				29	61	0.47
Total		4,727	7,805	2			12,534	17,146	0.73

Table 9. 2020-2021 Sport Salmon Catch, Area 2-1 - Willapa Bay

Calendar Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Chinook Jacks	Coho Jacks	Total Salmon
July	2020	35	16						51
August	2020	527	92				37	12	668
September	2020	156	510					25	691
October	2020		50					12	62
Total		718	668				37	49	1,472

NOTE: Estimates from July-September are from creel surveys; all other estimates are from catch record cards.

Table 10. 2020-2021 Sport Salmon Catch, Area 2-2 - Grays Harbor

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Chinook Jacks	Coho Jacks	Total Salmon
July	2020		25						25
August	2020	167				22			189
September	2020	170	986			12		37	1,205
October	2020		1,156				12	50	1,218
Total		337	2,167			34	12	87	2,637

Table 11. 2020 Sport Salmon Catch, Area 3 - La Push

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 28	2020							3	0.00
July 5	2020								
July 12	2020	13	5				18	17	1.06
July 19	2020						0		
July 26	2020						0		
August 2	2020		14				14	7	2.00
August 9	2020		44				44	22	2.00
August 16	2020		42				42	42	1.00
August 23	2020		18				18	9	2.00
August 30	2020		3				3	43	0.07
Aug 31-Sept 13	2020		12				12		
Total		13	138				151	143	1.06

Table 12. 2020 Sport Salmon Catch, Area 4 - Neah Bay

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 21	2020	156	139				296	396	0.75
June 28	2020	394	298				692	923	0.75
July 5	2020	197	300				497	572	0.87
July 12	2020	472	741				1,213	1,448	0.84
July 19	2020	326	681				1,007	1,147	0.88
July 26	2020	253	752				1,005	775	1.30
August 2	2020	152	130				282	752	0.37
August 9	2020	49	49				98	768	0.13
August 16	2020		10				10	36	0.29
August 23	2020	4	4				8	31	0.26
August 30	2020		8				8	7	1.26
Aug 31-Sept 13	2020							18	
September 20	2020							7	
September 27	2020							7	
Total		2,004	3,111				5,116	6,885	0.74

Table 13. 2020-2021 Sport Salmon Catch, Area 5 - Sekiu - Pillar Point

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
July	2020	3,649	2,327	3			5,979	15,491	0.39
August	2020	144	10,227				10,371	8,720	1.19
September	2020	85	24,198				24,283	19,792	1.23
March	2021	1,385					1,385	1,835	0.75
Total		5,263	36,752	3		0	42,018	45,838	0.92

NOTE: Estimates for July are from creel surveys; other estimates are from catch record cards.

Table 14. 2020-2021 Sport Salmon Catch, Area 6 - East Juan de Fuca Strait

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
July	2020	1,669	112				1,781	2,336	0.76
August	2020	623	883				1,506	1,915	0.79
September	2020		4,289				4,289	4,106	1.04
October	2020		81				81	103	0.79
Total		2,292	5,365				7,657	8,460	0.91

Table 15. 2020-2021 Sport Salmon Catch, Area 7 - San Juan Islands

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
July	2020	1,380	28	5			1,413	15,070	0.09
August	2020	251	1,498	5			1,754	2,746	0.64
September	2020	19	9,301				9,320	7,666	1.22
February	2021	41					41	77	0.53
Total		1,691	10,827	10			12,528	25,559	0.49

NOTE: Estimates for July are from creel surveys; other estimates are from catch record cards.

Table 16. 2020-21 Sport Salmon Catch, Area 8-1 - Deception Pass / Hope Island

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip

NOTE: Marine Area 8-1 was closed to salmon fishing for the entire 2020-21 season.

Table 17. 2020-2021 Sport Salmon Catch, Area 8-2 - Port Susan / Port Gardner

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
May	2020	21					21	42	0.50
June	2020	163					163	288	0.57
July	2020	144					144	239	0.60
August	2020	113					113	276	0.41
Total		441					441	845	0.52

Table 18. 2020-2021 Sport Salmon Catch, Area 9 - Admiralty Inlet

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
May	2020	10	10				20	35	0.57
July	2020	2,883	1,700				4,583	31,003	0.15
August	2020	984	2,190				3,174	16,376	0.19
September	2020	76	2,722				2,798	4,020	0.70
October	2020		52				52	90	0.58
November	2020		11				11	18	0.61
December	2020	21					21	36	0.58
January	2021	21					21	36	0.58
Total		3,995	6,685				10,680	51,614	0.21

NOTE: Estimates from July 16-August 16 are from creel surveys; all other estimates are from catch record cards.

Table 19. 2020-2021 Sport Salmon Catch, Area 10 - Seattle / Bremerton

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June	2020		4,310				4,310	3,999	1.08
July	2020	419	6,064				6,483	14,038	0.46
August	2020	1,132	5,225	4		3	6,364	19,905	0.32
September	2020	43	13,935			13	13,991	13,826	1.01
October	2020	35	411			7	453	829	0.55
November	2020		2			122	124	117	1.06
January	2021	235	4				239	1,868	0.13
Total		1,864	29,951	4		145	31,964	54,582	0.59

NOTE: Estimates from July 16-31, August, and January are from creel surveys; all other estimates are from catch record cards.

Table 20. 2020-2021 Sport Salmon Catch, Area 11 - Tacoma / Vashon Island

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
July	2020	1,097	359				1,456	16,047	0.09
August	2020	969	1,005				1,974	15,735	0.13
September	2020	24	2,233				2,257	2,786	0.81
October	2020		103				103	227	0.45
Total		2,090	3,700				5,790	34,795	0.17

NOTE: Estimates for July-September are from creel surveys; other estimates are from catch record cards.

Table 21. 2020-2021 Sport Salmon Catch, Area 12 - Hood Canal

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
July	2020	226					226	181	1.25
August	2020	329	2,470				2,799	2,937	0.95
September	2020	46	1,171				1,217	730	1.67
October	2020		33	8		42	83	68	1.22
November	2020					194	194	88	2.20
Total		601	3,674	8		236	4,519	4,004	1.13

Table 22. 2020-2021 Sport Salmon Catch, Area 13 - South Puget Sound

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
May	2020	52					52	95	0.55
June	2020	52					52	70	0.74
July	2020	185	20				205	288	0.71
August	2020	700	57			7	764	1,122	0.68
September	2020	142	198				340	539	0.63
October	2020		34			641	675	810	0.83
November	2020	13	13			980	1,006	771	1.30
January	2021	22	50				72	61	1.18
February	2021	23	28				51	61	0.84
March	2021	117	58				175	262	0.67
Total		1,306	458			1,628	3,392	4,079	0.83

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month

COASTAL RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2020								2021			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Grays Harbor	Elk River	342	Coho								12					12	
			Jackcoho									12					12
			Total									24					24
	Hoquiam River	355	Coho								61	12					73
			Total								61	12					73
	Humptulips River	358	Chinook							355	796						1,151
			Chum								37						37
			Coho							37	380	159	86				662
			Jackchin							12	37						49
			Jackcoho							110	98			12			220
Johns River	367	Coho								294	61					355	
		Total								294	61					355	
Wishkah River	335	Chum								12						12	
		Coho								12						12	
		Total								24						24	
Chehalis R. System	Chehalis River	315	Chinook								12					12	
			Coho							48	1,610	204	192				2,054
			Jackchin							36	24						60
			Jackcoho							721	841	24					1,586
	Satsop River	329	329	Total						805	2,487	228	192				3,712
				Chum							36	48					84
				Coho							469	324	72				865
				Jackcoho							108	48					156
	Skookumchuck River	333	333	Total							613	420	72			1,105	
				Coho								36	24				60
Jackcoho												24				24	
Wynoochee River	337	337	Total								60	24			84		
			Chum							12						12	
			Coho							192	60	24				276	
			Jackcoho							72						72	
Wynoochee River	337	337	Total							276	60	24			360		

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2020								2021			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Copalis R. System	Copalis River	339	Coho								199	11				210	
			Jackcoho									66					66
			Total									265	11				276
Hoh R. System	Hoh River above Oxbow Launch	348	Chinook								58	58				116	
			Coho								325	93				418	
			Jackcoho									12	12				24
			Total									395	163				558
	Hoh River below Oxbow Launch	350	Chinook							23	174	12				209	
			Coho							23	360					383	
			Jackchin							12	23					35	
			Jackcoho								35					35	
Total								58	592	12				662			
Joe Creek System	Joe Creek	323	Coho								14	14				28	
			Total									14	14				28
Moclips R. System	Moclips River	371	Coho								7	7				14	
			Total									7	7				14
Mosquito Cr. System	Mosquito Creek	373	Chinook								7					7	
			Total									7					7
Queets R. System	Clearwater River	392	Coho									25				25	
			Total										25				25
	Queets River	394	Chinook							13	38	25				76	
			Coho							13	25					38	
			Total							26	63	25				114	
	Salmon River (Jefferson Co)	396	Chinook							38	13					51	
			Coho							50						50	
			Jackcoho							13						13	
Total								101	13					114			

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2020								2021			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Quillayute R. System	Bogachiel River	398	Chinook								203	12				215		
			Coho			24			12	12							48	
			Sockeye					24										24
			Jackcoho								12							12
			Total				24	24	12	227	12							299
	Calawah River	400	Coho						12								12	
			Sockeye				36	12									48	
			Total				36	24									60	
	Dickey River (Clallam Co)	402	Chinook							12	12						24	
			Coho							12							12	
			Jackcoho							12	12						24	
			Total							36	24						60	
	Quillayute River	404	Chinook							60	95						155	
			Coho				12	24	71	238							345	
			Jackchin							48	36						84	
			Jackcoho							24	36						60	
			Total				12	24	203	405							644	
	Sol Duc River	406	Chinook		107	226	95	12	12	378	24						854	
			Coho			12	167	107	155	670	298						1,409	
			Jackchin			36	60			12	131	12					251	
Jackcoho								36		24						60		
Total				107	274	322	155	179	1,203	334						2,574		
Quinault R. System	Quinault River	410	Chinook						7	14						21		
			Coho							94						94		
			Jackchin					7								7		
			Total					7	7	108						122		

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Willapa Bay	Naselle River	375	Chinook					333	552	65						950
			Chum							110						110
			Coho					26	262	785	405	37				1,515
			Jackchin					12	86	12						110
			Jackcoho					12	12	37						61
			Total					383	912	1,009	405	37				2,746
	Nemah River, North (below Nemah Hatchery), Middle and South	379	Chinook					564	1,128	12					1,704	
			Coho					12							12	
			Jackchin					74	74						148	
			Jackcoho						12						12	
	North River	382	Total					650	1,214	12					1,876	
			Chum								12				12	
			Coho								257	25			282	
			Jackcoho								37	12			49	
	Smith Creek (Pacific Co)	384	Total							25				25		
Chinook							74	441	184					699		
Willapa River	424	Coho					25	184	552	147	270			1,178		
		Jackchin						25	12	12				49		
		Jackcoho						61	12					73		
		Total					99	711	760	159	270			1,999		
Coastal River Totals			Chinook		107	226	95	983	2,641	2,061	131			6,244		
			Chum							207	60			267		
			Coho			12	203	206	867	6,593	1,881	705			10,467	
			Sockeye				36	36							72	
			Jackchin			36	60	93	305	275	24				793	
			Jackcoho					48	965	1,414	120	12			2,559	
			Total		107	274	394	1,366	4,778	10,550	2,216	717			20,402	

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2020								2021			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Columbia R. Mainstem	B10 Line - Rocky Pt. - Tongue Pt Line	519	Chinook					4,196	352	3						4,551		
			Coho					1,619	1,208	157						2,984		
			Jackcoho															
				Total					5,815	1,560	160					7,535		
	Columbia - below Bonneville	521	Chinook			973		720	3,347	5,768	1,097					1	870	12,776
			Coho						20	515	295							830
Sockeye					14		1,604										1,618	
Jackchin					148		21	95	203	635	157					5	1,264	
Jackcoho									6	89	48						143	
			Total			1,135	1,625	815	3,576	7,007	1,597				1	875	16,631	
Cowlitz R. System	Cispus River	555	Chinook														12	
			Coho															74
			Total															86
	Cowlitz R. below Mayfield Dam	561	Chinook														12	86
			Coho						87	411	1,189	639	38				13	2,377
			Jackchin									12	12					24
			Jackcoho							50	573	1,357	162					2,142
				Total					137	984	2,620	825	38			25	4,629	
	Cowlitz R. above Cowlitz Falls Dam	559	Coho									535	212	125				872
			Jackchin									37						37
			Jackcoho									12	336		87			435
			Total									12	908	212	212			1,344
Green River (Cowlitz Co.) above Toutle Hatchery	566	Sockeye																
		Total																
Green River (Cowlitz Co.) below Toutle Hatchery	565	Coho									87						87	
		Sockeye																
		Total									87						87	
Tilton River	571	Coho								498	859	75	50				1,482	
		Jackcoho								62	224						286	
		Total								560	1,083	75	50				1,768	

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2020								2021			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Cowlitz R. System (cont.)	Toutle River	573	Chinook							12						12	
			Total							12						12	
	Toutle River, No Fork	575	Chinook							87	12						99
			Coho								137						137
Jackchin									12							12	
	Total							99	149						248		
Lewis R. System	Cedar Creek (Clark Co)	609	Jackcoho								12					12	
			Total								12						12
	Lewis River	611	Chinook						12	37	200		12				261
			Coho					12	62	150							224
			Jackchin						24	50	12						86
			Jackcoho					162	125	225							512
			Total					186	248	625	24						1,083
	Lewis River, North Fork	615	Chinook				13	126	339	680	101	30				13	1,302
			Coho					12	362	599	137	120					1,230
			Jackchin					75	100	25	25						225
Jackcoho							287	1,460	524	25						2,296	
Total						13	500	2,261	1,828	288	150				13	5,053	
Lower Columbia	Grays River above Barr Rd. Bridge	595	Coho									98				98	
			Jackcoho										24				24
			Total										122				122
	Kalama River below Modrow Bridge	604	Chinook		61	24			135	184							404
			Coho							37	73						110
			Jackchin					12									12
			Jackcoho							24	49						73
			Total		61	24			147	245	122						599
	Kalama River between Modrow Bridge and Kalama Falls Hatchery	603	Chinook		110	37										12	159
			Coho								110	12					122
Jackchin						12										12	
Jackcoho										24	12					36	
Total				110	49					134	24				12	329	

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2020								2021			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Lower Columbia (cont.)	Washougal River below County Line Access	667	Chinook					26	218	26						270		
			Coho							24						24		
			Jackchin						49	12						61		
			Jackcoho							24						24		
			Total					26	267	86						379		
Lower Columbia System Total			Chinook		1,144	61	733	7,842	6,997	2,092	125	30			13	895	19,932	
			Coho					1,750	3,105	4,277	1,173	333			13		10,651	
			Sockeye		14	1,604												1,618
			Jackchin		148	33	95	290	820	293	49					5	1,733	
			Jackcoho					505	2,345	2,823	223	87					5,983	
			Total		1,306	1,698	828	10,387	13,267	9,485	1,570	450				26	900	39,917

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2020								2021			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Klickitat River	Klickitat River above Fishway 5	608	Chinook		11	333	218	11	700	424	11					11	1,719
			Coho							200	69	23	11				303
			Jackchin			11	23		11	23	11						79
			Jackcoho														
			Total		11	344	241	11	711	647	91	23	11		11		2,101
Klickitat River	Klickitat River below Fishway 5	607	Chinook			35			761	651	84	125				1,656	
			Coho						93	3,197	1,431	816	80			5,617	
			Sockeye														
			Jackchin				11		69	115	11	57	46			309	
			Jackcoho							23	539	207	57			826	
			Total			35	11		946	4,502	1,733	1,055	126			8,408	

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Little White Salmon River & Drano Lake	Little White Salmon River & Drano Lake	618	Chinook		519		12	326	2,242	651						3,750
			Coho				12	206	60						278	
			Sockeye													
			Jackchin		12			48	301	60					421	
			Jackcoho						24						24	
			Total		531		12	386	2,773	771					4,473	
Mid Columbia	Columbia Bonneville Dam to The Dalles Dam	527	Chinook		72		12	215	1,555	909	12				36	2,811
			Coho						335	1,053	239				1,627	
			Jackchin					12	215	48					275	
			Jackcoho						36	48					84	
			Total		72		12	227	2,141	2,058	251				36	4,797
	Columbia The Dalles Dam to John Day Dam	529	Chinook		60		24	287	909	156						1,436
			Chum													
			Coho					12	144	24					180	
			Jackchin				15		92						107	
			Jackcoho							12	48				60	
			Total		60		39	299	1,157	228				1,783		
Columbia John Day Dam to McNary Dam	531	Chinook		132				96	72						300	
		Coho							12					12		
		Sockeye				24								24		
		Jackchin		36						36				72		
		Total		168		24		96	120					408		
Wind R. System	Wind River below Shipherd Falls	680	Chinook		486		12	24	486	49					1,057	
			Coho						219	207				426		
			Jackchin		12			24	73					109		
			Total		498		12	48	778	256				1,592		
Middle Columbia System Totals			Chinook		1,280	368	278	863	6,749	2,912	107	125			47	12,729
			Chum													
			Coho					24	997	4,753	1,739	839	91		8,443	
			Sockeye				24								24	
			Jackchin		60	11	49	84	761	282	22	57	46		1,372	
			Jackcoho						95	635	207	57			994	
			Total		1,340	379	351	971	8,602	8,582	2,075	1,078	137		47	23,562

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2020								2021			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Entiat River	Entiat River	586	Chinook				14									14		
			Total				14										14	
Okanogan R. System	Okanogan River	627	Sockeye					166	102							268		
			Total					166	102								268	
Upper Columbia	Columbia McNary Dam to Hwy. 395 Bridge	533	Chinook		12				71	47						130		
			Coho							12							12	
			Sockeye				12										12	
			Jackchin							36	36						72	
			Total		12		12			107	95						226	
	Columbia Hwy. 395 Bridge to I-182 Bridge	534	Chinook						142	226	107						475	
			Coho							36	24						60	
			Sockeye															
			Jackchin						24	142	24						190	
	Total						166	404	155						725			
	Columbia I-182 Bridge-old Hanford townsite	535	Chinook		24		239	131	3,871	3,130	24						7,419	
			Coho						90	78							168	
Sockeye					2,390	7,228		83								9,701		
Jackchin				24		84	12	529	253							902		
Jackcoho									107							107		
Total				48	2,390	7,551	143	4,573	3,568	24						18,297		
Columbia Old Hanford townsite-Priest Rapids Dam	536	Chinook	36			156	48	5,695	5,001							10,936		
		Coho						59	71	36						166		
		Sockeye			190	368				12						570		
		Jackchin				12	12	629	487							1,140		
		Jackcoho							12	12						24		
		Total	36		190	536	60	6,395	5,583	36						12,836		
Columbia Priest Rapids to Wanapum Dam	537	Chinook				399	24	968	520							1,911		
		Coho										12				12		
		Sockeye				2,339	47									2,386		
		Jackchin				36	47	142	59							284		
		Jackcoho				12			12							24		
		Total				2,786	118	1,122	579			12				4,617		

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2020								2021			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Upper Columbia (cont.)	Columbia Wanapum to Rock Island Dam	539	Chinook				12		178	249						439	
			Sockeye				24										24
			Jackchin				12		83	36							131
			Total				48		261	285							594
	Columbia Rock Island to Rocky Reach Dam	541	Chinook				119	107	36	12							274
			Coho					12	12	12							36
			Sockeye				3,241	47		12							3,300
			Jackchin						24								24
	Total				3,360	166	72	36							3,634		
	Columbia Rocky Reach to Wells Dam	543	Chinook	12			2,988	807	178	214							4,199
			Sockeye				1,441	214									1,655
			Jackchin				321	71	12	12							416
			Total	12			4,750	1,092	190	226							6,270
	Columbia Wells to Chief Joseph Dam	545	Chinook		12		896	991	179	12							2,090
			Coho					12		12							24
			Sockeye				14,007	8,565	335	24				12	12		22,955
Jackchin						47	142	24								213	
Total				12		14,950	9,710	538	48				12	12		25,282	
Wenatchee R. System	Icicle Creek	672	Chinook			74	25									99	
			Coho							110	49						159
			Total			74	25				110	49					258
	Lake Wenatchee	670	Sockeye					12,137	368							12,505	
Total							12,137	368							12,505		
Yakima R. System	Yakima River	690	Chinook						25	200						225	
			Coho								38						38
			Jackchin								13	63					76
			Jackcoho									38					38
			Total								38	339					377

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Upper Columbia System Totals			Chinook	48	48	74	4,848	2,250	11,427	9,492	24					28,211
			Coho					24	197	357	85	12			675	
			Sockeye			2,580	28,660	21,176	888	48				12	12	53,376
			Jackchin		24		512	308	1,634	970						3,448
			Jackcoho				12		24	157						193
			Total		48	72	2,654	34,032	23,758	14,170	11,024	109	12	12	12	85,903

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

SNAKE RIVER SYSTEM																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Snake R. System	Snake River: Lower Monumental to Little Goose Dam	644	Chinook		419					36	72					527
			Jackchin		12					36	12					60
			Total		431					72	84					587
	Snake River: Lower Granite to Interstate Bridge	648	Chinook					84	754	48						886
Jackchin							12	144	96					252		
Total							96	898	144					1,138		
Snake River: upstream of Interstate Bridge	650	Chinook							120	132					252	
		Jackchin							24	12				36		
		Total							144	144				288		
Grande Ronde River	592	Chinook								24					24	
		Jackchin								12					12	
		Total								12	24				36	
Snake River System Totals			Chinook		419			84	910	276					1,689	
			Jackchin		12			12	216	120					360	
			Total		431			96	1,126	396					2,049	

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2020								2021			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Chambers Cr. System	Chambers Creek	714	Chinook					7	7								14	
			Total					7	7									14
Deschutes R. System	Deschutes River	728	Chinook								7						7	
			Coho									7						7
			Total									14						14
Duckabush R. System	Duckabush River	736	Chum									7					7	
			Total										7					7
Dungeness R. System	Dungeness River	738	Coho								229	60					289	
			Jackcoho									24						24
			Total									253	60					313
Green-Duwamish R. System	Green - Duwamish River	746	Chinook						107	12	12						131	
			Chum						24	284	1,197	24						1,529
			Coho						1,794	550	275							2,619
			Jackchin						344	12								356
			Jackcoho						355	95	24							474
Total						2,624	953	1,508	24						5,109			
Kennedy Cr. System	Kennedy Creek	754	Chum								143	323					466	
			Total								143	323					466	
Lake Washington System	Lake Sammamish	764	Coho								7						7	
	Total									7						7		
	Lake Washington	762	Coho						108	15							123	
	Total							108	15							123		
Minter Cr. System	Minter Creek	778	Chinook						63	38							101	
			Chum									25	1,458	469				1,952
			Coho							107	120							227
			Jackchin							50	25							75
			Total							220	208	1,458	469					2,355

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2020								2021			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Nisqually R. System	McAllister Creek	770	Chinook					24	36							60		
			Jackchin					24									24	
			Total					48	36								84	
	Nisqually River	786	Chinook						324	753							1,077	
			Coho					12	352	180							544	
			Jackchin				12	324	817							12	1,165	
			Jackcoho					12	144	24							180	
Total				12	672	2,066	204							12	2,966			
Nooksack Samish R. System	Dakota Creek (Whatcom Co)	724	Chinook						12							12		
			Total						12								12	
	Nooksack River, Middle Fork	788	Coho															
			Total															
	Nooksack River, North Fork	790	Chinook			85											85	
			Coho								122	146	37					305
			Jackchin			123												123
			Jackcoho										24					24
	Total			208						122	170	37				537		
	Nooksack River, South Fork	792	Coho							427	24						451	
Jackcoho										24							24	
Total										451	24						475	
Nooksack River, below North Fork	794	Chinook								12						12		
		Coho								122	292	110	49				573	
		Jackchin									12						12	
		Jackcoho									49	24					73	
		Total								171	340	110	49				670	
Samish River	816	Chinook						2,476	5,062							7,538		
		Coho						25	37							62		
		Jackchin						85	159								244	
		Jackcoho						24									24	
		Total						2,610	5,258								7,868	
Whatcom Creek	884	Chinook						12								12		
		Total						12									12	

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Puyallup R. System	Carbon River	802	Chinook						619	87						706
			Coho						161	74						235
			Jackchin						260							260
			Jackcoho					12	50	25						87
			Total					12	1,090	186						1,288
	Puyallup River	804	Chinook					582	421	12						1,015
			Coho					792	2,277	37						3,106
			Jackchin					359	223	12						594
			Jackcoho					186	433							619
			Total					1,919	3,354	61						5,334
Quilcene R. System	Quilcene River	812	Coho					1,578	1,172	79					2,829	
			Jackcoho							11					11	
			Total					1,578	1,172	90					2,840	
Skagit R. System	Baker Lake	825	Sockeye				5,373	207							5,580	
			Total				5,373	207							5,580	
	Cascade River	826	Chinook			12	12								24	
			Coho						1,437	2,053	36				3,526	
			Jackchin				12								12	
			Jackcoho								12				12	
	Skagit River	830	Chinook			12	24		1,437	2,065	36				3,574	
			Coho		5				2,216	3,224	435				5,875	
			Jackcoho						24	12					36	
			Total		5	12			2,240	3,236	435				5,928	
Snohomish R. System	Skykomish River	844	Chinook		27	360	130							517		
			Jackchin		13	106	538								657	
			Total		40	466	668								1,174	
	Stillaguamish River	872	Chinook							1					1	
			Coho						75	323	75				473	
			Total						75	324	75				474	
Wallace River	860	Coho						25	348	99				472		
		Total						25	348	99				472		

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Puget Sound River System Total			Chinook		32	469	142	3,425	7,080	169	12					11,329
			Chum						24	452	2,985	493				3,954
			Coho					2,407	9,883	8,087	1,260	86				21,723
			Sockeye				5,373	207								5,580
			Jackchin		13	229	562	792	1,853	61					12	3,522
			Jackcoho					234	1,055	251	48					1,588
			Total		45	698	6,077	7,065	19,895	9,020	4,305	579			12	47,696

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

UNKNOWN RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2020								2021			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Unknown River System Totals			Chinook	7	26	52	97	110	284	103					14	693
			Chum				13			25	109					147
			Coho	9		64	105	122	103	260						663
			Sockeye				235	64								299
			Jackchin							37						37
			Jackcoho		15					45		7	15			82
			Total	16	41	116	450	296	469	388	116	15			14	1,921

Table 23. 2020-2021 Freshwater Salmon Sport Catch by Area and Month (continued)

STATEWIDE TOTALS																	
System	Catch Area	CRC Code	Species	2020								2021			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Statewide Totals			Chinook	55	3,056	1,250	6,193	15,557	36,088	17,105	399	155			13	956	80,827
			Chum				13		24	684	3,154	493					4,368
			Coho	9		76	308	4,533	15,152	24,327	6,138	1,975	91	13			52,622
			Sockeye		14	4,184	34,328	21,483	888	48			12	12			60,969
			Jackchin		257	309	1,278	1,579	5,626	2,001	95	57	46		17		11,265
			Jackcoho		15		12	787	4,529	5,280	605	171					11,399
			Total	64	3,342	5,819	42,132	43,939	62,307	49,445	10,391	2,851	149	38	973		221,450

Table 24. 2020-2021 Washington Sport Salmon Fishing, by Residence

County of Residence	Number Catch Record Cards	Population by County	% Catch Record Card Holders	Total Freshwater Salmon Catch	Total Marine Salmon Catch	Total Salmon	Average Catch per Card
Adams	1,709	20,027	8.5	1,208	448	1,656	0.97
Asotin	2,211	22,820	9.7	464	27	491	0.22
Benton	21,045	206,426	10.2	17,570	845	18,415	0.88
Chelan	7,722	77,574	10	12,275	565	12,840	1.66
Clallam	9,964	78,067	12.8	3,020	11,946	14,966	1.5
Clark	42,999	496,865	8.7	18,291	3,751	22,042	0.51
Columbia	557	4,048	13.8	185		185	0.33
Cowlitz	19,033	111,371	17.1	10,312	1,527	11,839	0.62
Douglas	3,722	43,560	8.5	6,352	457	6,809	1.83
Ferry	391	7,759	5	372	66	438	1.12
Franklin	9,569	97,075	9.9	7,595	27	7,622	0.8
Garfield	355	2,290	15.5	58		58	0.16
Grant	5,770	99,377	5.8	3,995	517	4,512	0.78
Grays Harbor	11,124	75,950	14.6	4,227	4,698	8,925	0.8
Island	11,188	86,014	13	929	4,798	5,727	0.51
Jefferson	3,651	32,700	11.2	732	3,481	4,213	1.15
King	95,682	2,274,315	4.2	20,056	31,332	51,388	0.54
Kitsap	23,373	272,787	8.6	2,415	12,829	15,244	0.65
Kittitas	3,671	49,204	7.5	1,881	1,304	3,185	0.87
Klickitat	3,329	22,697	14.7	3,473	225	3,698	1.11
Lewis	11,492	82,109	14	4,401	1,891	6,292	0.55
Lincoln	808	11,090	7.3	801	54	855	1.06
Mason	6,697	68,224	9.8	1,219	3,923	5,142	0.77
Okanogan	3,269	42,620	7.7	4,448	266	4,714	1.44
Pacific	4,172	22,984	18.2	2,415	3,040	5,455	1.31
Pend Oreille	529	14,144	3.7	499	246	745	1.41
Pierce	63,487	913,890	6.9	13,912	17,948	31,860	0.5
San Juan	2,267	17,492	13	58	586	644	0.28
Skagit	16,544	130,789	12.6	7,305	3,872	11,177	0.68
Skamania	1,388	12,107	11.5	1,603		1,603	1.15
Snohomish	59,358	830,393	7.1	13,123	18,887	32,010	0.54
Spokane	16,377	528,225	3.1	10,870	2,205	13,075	0.8
Stevens	3,077	46,360	6.6	1,091		1,091	0.35
Thurston	22,529	294,074	7.7	5,899	7,323	13,222	0.59
Wahkiakum	1,057	4,498	23.5	1,219		1,219	1.15
Walla Walla	5,127	61,292	8.4	1,684	39	1,723	0.34
Whatcom	19,524	231,016	8.5	4,599	3,422	8,021	0.41
Whitman	2,044	49,500	4.1	93	127	220	0.11
Yakima	20,552	251,879	8.2	10,626	1,366	11,992	0.58
Unknown WA	1,254			337	267	604	0.48
Washington Total	538,617	7,693,612	7	201,612	144,305	345,917	0.64
Other State Total	35,210			19,835	6,447	26,282	0.75
Canada	89						
Other	94				79	79	0.84
Grand Total	574,010			221,447	150,831	372,278	0.65

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2020.
 Source: Population Division, U.S. Census Bureau. Release Date: July 2020

Table 25. 2020-2021 Frequency Distribution of Estimated Salmon Catch Record Cards and Catch

#Salmon per Catch Record Card	Number of Cards	Cumulative Number of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	488,910	488,910	85.2%	85.2%	0	0	0.0%	0.0%
1	25,725	514,635	4.5%	89.7%	25,725	25,725	6.9%	6.9%
2	18,918	533,553	3.3%	93.0%	37,836	63,561	10.2%	17.1%
3	8,682	542,235	1.5%	94.5%	26,046	89,607	7.0%	24.1%
4	7,194	549,429	1.3%	95.7%	28,776	118,383	7.7%	31.8%
5	4,696	554,125	0.8%	96.5%	23,480	141,863	6.3%	38.1%
6	3,819	557,944	0.7%	97.2%	22,914	164,777	6.2%	44.3%
7	2,354	560,298	0.4%	97.6%	16,478	181,255	4.4%	48.7%
8	2,254	562,552	0.4%	98.0%	18,032	199,287	4.8%	53.5%
9	1,621	564,173	0.3%	98.3%	14,589	213,876	3.9%	57.5%
10	1,366	565,539	0.2%	98.5%	13,660	227,536	3.7%	61.1%
11	1,010	566,549	0.2%	98.7%	11,110	238,646	3.0%	64.1%
12	1,010	567,559	0.2%	98.9%	12,120	250,766	3.3%	67.4%
13	955	568,514	0.2%	99.0%	12,415	263,181	3.3%	70.7%
14	644	569,158	0.1%	99.2%	9,016	272,197	2.4%	73.1%
15	600	569,758	0.1%	99.3%	9,000	281,197	2.4%	75.5%
16	555	570,313	0.1%	99.4%	8,880	290,077	2.4%	77.9%
17	389	570,702	0.1%	99.4%	6,613	296,690	1.8%	79.7%
18	489	571,191	0.1%	99.5%	8,802	305,492	2.4%	82.1%
19	255	571,446	0.0%	99.6%	4,845	310,337	1.3%	83.4%
20	266	571,712	0.0%	99.6%	5,320	315,657	1.4%	84.8%
21	211	571,923	0.0%	99.6%	4,431	320,088	1.2%	86.0%
22	211	572,134	0.0%	99.7%	4,642	324,730	1.3%	87.2%
23	222	572,356	0.0%	99.7%	5,106	329,836	1.4%	88.6%
24	233	572,589	0.0%	99.8%	5,592	335,428	1.5%	90.1%
25	189	572,778	0.0%	99.8%	4,725	340,153	1.3%	91.4%
26	1,177	573,955	0.2%	100%	30,602	370,755	8.2%	99.6%
27	33	573,988	0.0%	100%	891	371,646	0.2%	99.8%
28*	11	573,999	0.0%	100%	308	371,954	0.1%	99.9%
30 or more	11	574,010	0.0%	100%	330	372,284	0.1%	100%
Total	574,010		100.0%		372,284		100.0%	

*Note: A single card has room for twenty-six salmon entries. Cards showing more than that were filled out incorrectly, with more than one salmon per line.

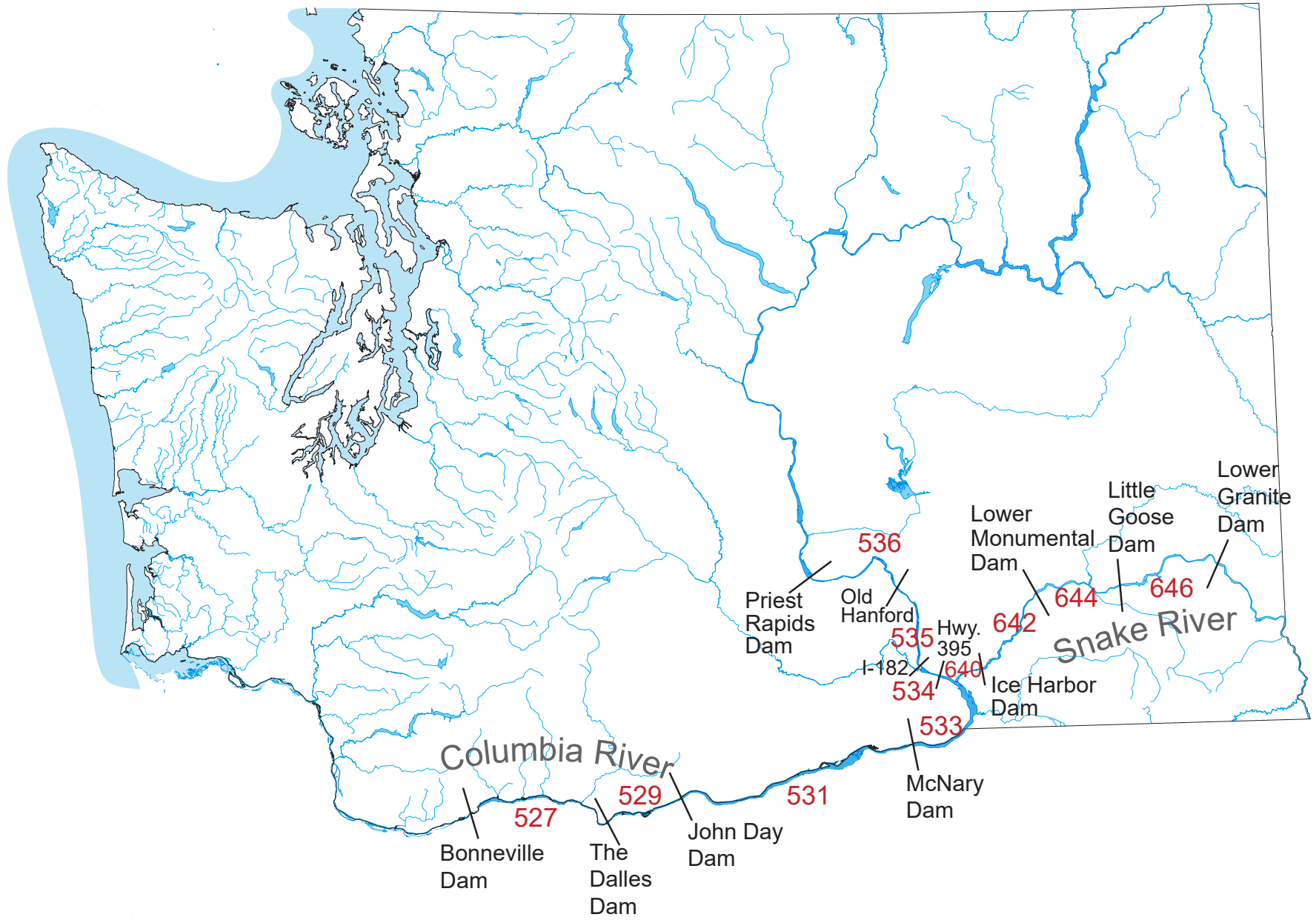
Table 26. 2020-2021 Sport Salmon Inventory of Catch Record Cards Received

Response Type	With Catch	No catch	Total Reports	Number of Salmon	Catch per Card
Prior to reminder	1,149	8,139	9,288	4,299	0.46
After 1st reminder postcard	5,330	21,108	26,438	24,101	0.91
After 2nd reminder postcard	1,187	2,801	3,988	5,133	1.29
Total	7,666	32,048	39,714	33,533	0.84

Sturgeon



MAP OF STURGEON CATCH RECORD CARD AREAS



DESCRIPTION OF STURGEON CATCH RECORD CARD AREAS

Columbia River

527	Bonneville to the Dalles Dam
529	The Dalles Dam to John Day Dam
531	John Day to McNary Dam
533	McNary Dam to Highway 395 Bridge at Pasco
534	Highway 395 Bridge at Pasco to I-82 Bridge
535	I-82 Bridge to Old Hanford Townsite
536	Old Hanford Townsite to Priest Rapids Dam

Snake River

640	Below Ice Harbor Dam
642	Ice Harbor to Lower Monumental Dam
644	Lower Monumental to Little Goose Dam
646	Little Goose to Lower Granite Dam

Table 27. 2020-2021 Sport Sturgeon Catch, by Area and Month

COLUMBIA RIVER SYSTEMS															
Catch Area	Species	2020										2021			Total
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Columbia R 02: Tongue Pt. Rocky Pt. to Longview Br.	White						70	2						72	
Columbia R 03: Longview Br. to I-5 Br.	White						313	9						322	
Columbia R 04: I-5 Br. to Bonneville Dam	White						48	3						51	
Columbia R 05: Bonneville to The Dalles Dam	White											282		282	
Columbia R 06: The Dalles to John Day Dam	White											101		101	
Columbia R 07: John Day to McNary Dam	White											14	1	17	
Columbia R 08: McNary Dam - Hwy 395 Bridge in Pasco	White		1											1	
Columbia R 09: I-182 Bridge to old Hanford townsite	White				1									1	
Columbia R 16: above Grand Coulee Dam (Lake Roosevelt)	White			49	195	95	99							438	
Cowlitz R. below Mayfield Dam	White						14							14	
Total	White		1	49	196	95	544	14				397	1	17	1,314
UNKNOWN AREA															
Unknown Area Totals	White						15							15	
STATEWIDE TOTALS															
Statewide Totals	White		1	49	196	95	559	14				397	1	17	1,329

Table 28. 2020-2021 Washington Sport Sturgeon Fishing, by Residence

County of Residence	Number Catch Record Cards	Population by County	% Catch Record Holders	Total Sturgeon	Average Catch per Catch Record Card
Adams	1,709	20,027	8.5		
Asotin	2,211	22,820	9.7		
Benton	21,045	206,426	10.2	37	0.00
Chelan	7,722	77,574	10	37	0.00
Clallam	9,964	78,067	12.8		
Clark	42,999	496,865	8.7	373	0.01
Columbia	557	4,048	13.8		
Cowlitz	19,033	111,371	17.1	161	0.01
Douglas	3,722	43,560	8.5		
Ferry	391	7,759	5	13	0.03
Franklin	9,569	97,075	9.9	37	0.00
Garfield	355	2,290	15.5		
Grant	5,770	99,377	5.8	25	0.00
Grays Harbor	11,124	75,950	14.6	13	0.00
Island	11,188	86,014	13		
Jefferson	3,651	32,700	11.2		
King	95,682	2,274,315	4.2		
Kitsap	23,373	272,787	8.6	25	0.00
Kittitas	3,671	49,204	7.5		
Klickitat	3,329	22,697	14.7	37	0.01
Lewis	11,492	82,109	14	99	0.01
Lincoln	808	11,090	7.3	13	0.02
Mason	6,697	68,224	9.8		
Okanogan	3,269	42,620	7.7		
Pacific	4,172	22,984	18.2		
Pend Oreille	529	14,144	3.7		
Pierce	63,487	913,890	6.9		
San Juan	2,267	17,492	13		
Skagit	16,544	130,789	12.6		
Skamania	1,388	12,107	11.5	25	0.02
Snohomish	59,358	830,393	7.1		
Spokane	16,377	528,225	3.1	99	0.01
Stevens	3,077	46,360	6.6	149	0.05
Thurston	22,529	294,074	7.7	13	0.00
Wahkiakum	1,057	4,498	23.5	13	0.01
Walla Walla	5,127	61,292	8.4	13	0.00
Whatcom	19,524	231,016	8.5		
Whitman	2,044	49,500	4.1		
Yakima	20,552	251,879	8.2	25	0.00
Unknown WA	1,254				
Washington Total	538,617	7,693,612	7	1,207	0.00
Other State Total	35,210			124	0.00
Canada	89				
Other	94				
Grand Total	574,010			1,331	0.00

Note: The figures do not accurately multiply across because of the bias adjustment factor and rounding of numbers.

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2020.

Source: Population Division, U.S. Census Bureau. Release Date: July 2020

Table 29. 2020-2021 Frequency Distribution of Estimated Sturgeon Catch Record Cards and Catch

#Sturgeon per Catch Record Card	Number of Cards	Cumulative Number of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	572,804	572,804	99.8%	99.8%	0	0	0.0%	0.0%
1	1,083	573,887	0.2%	100%	1,083	1,083	81.5%	81.5%
2	123	574,010	0.0%	100%	246	1,329	18.5%	100%
Total	574,010		100.0%		1,329		100.0%	

Table 30. 2020-2021 Sport Sturgeon Inventory of Catch Record Cards Reported

Response Type	With Catch	No Catch	Total Reports	Number of Sturgeon	Catch per Card
Prior to reminder	24	8,622	8,646	24	0.003
After 1st reminder postcard	64	24,985	25,049	73	0.003
After 2nd reminder postcard	10	6,013	6,023	11	0.002
Total	98	39,620	39,718	108	0.003

Steelhead



Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month

COASTAL RIVERS AND MARINE CATCH AREAS																	
System	Area	Code	Run	2020									2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Chehalis R. System	Chehalis R. above Black R.	315	W											24		80	104
	Chehalis R. below Black R.	317	W									5	24	9	5	43	
	Satsop River	329	W								5	9	38	14	66		
	Satsop River, West Fork	331	W								5				5		
	Skookumchuck River	333	S							11							11
				W								5	114	440	80	639	
	Wynoochee River	337	S		11	116	896	580	126	116							1,845
			W								52	213	147	24	436		
	Chehalis R. System Totals		S		11	116	896	580	126	127							1,856
			W								5	67	384	714	123	1,293	
Copalis R. System	Copalis River	339	W											9		9	
Hoh R. System	Hoh River above Oxbow Launch	348	W									9		18	18	45	
	Hoh River below Oxbow Launch	350	S						7							7	
			W										9	18	18	45	
	Hoh R. System Totals		S						7							7	
			W									9	9	36	36	90	
Humptulips R. System	Humptulips River	358	S			20	25	47	12							104	
			W								29	95	21	4	4	153	
	Humptulips River, E. Fork	361	S						2							2	
	Stevens Creek	364	W									25	17			42	
	Humptulips R. System Totals		S			20	25	47	14							106	
			W								29	120	38	4	4	195	
Marine Water	Area 1: Col R - Ledbetter	1	S				7		7	20						34	
Marine Water	Area 2: Westport	2	S				20									20	
	Area 2-2: Grays Harbor	22	S						7	7						14	
	Marine Water Totals		S				20		7	7						34	
Naselle R. System	Naselle River	375	W								27	375	40	13	455		
Nemah R. System	Nemah River, North (below Nemah Hatchery), Middle and South	379	W									9			9		

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																			
System	Area	Code	Run	2020									2021			Total			
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
North R. System	North River	382	W										82	55	9		146		
Queets R. System	Clearwater River	392	W										6		6		12		
	Queets River	394	W										125	18			143		
	Salmon River (Jefferson Co.)	396	W										71	143			214		
	Queets R. System Totals		W										202	161	6		369		
Quillayute R. System	Bogachiel River	398	S			9											9		
			W									113	275	7	7	7	409		
	Calawah River	400	S				90	63	81	45								279	
			W									7	99		7		113		
	Quillayute River	404	S					18										18	
			W											14				14	
Sol Duc River	406	W											7			21	28		
Quillayute R. System Totals			S			9	90	81	81	45								306	
			W										120	395	7	14	28	564	
Quinault R. System	Quinault R, Upper (above L. Quinault)	412	W													9	27	36	
Willapa R. System	Willapa River	424	W											73	64	9		146	
Coastal Rivers/Streams and Marine Carch Area Totals			S			11	145	1,038	708	242	199							2,343	
			W											181	1,332	758	823	218	3,312

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																
System	Area	Code	Run	2020								2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Columbia R. Mainstem	Columbia R 01: Buoy 10 to Tongue Pt.-Rocky Pt.	519	S			115	75									190
	Columbia R 02: Tongue Pt. Rocky Pt. to Longview Br.	521	S W		207	585	617								41	1,409 41
	Columbia R 03: Longview Br. to I-5 Br.	523	S		8	77	266									351
	Columbia R 04: I-5 Br. to Bonneville Dam	525	S			7	228									235
	Columbia R 05: Bonneville to The Dalles Dam	527	S				76				6	6	12	6		106
	Columbia R 06: The Dalles to John Day Dam	529	S				18						6	6		30
	Columbia R 07: John Day to McNary Dam	531	S		6	6	6	6				106	24	18	6	178
	Columbia R 08: McNary Dam - Hwy 395 Bridge @ Pasco	533	S									253	71	53		377
	Columbia R 09: I-182 Bridge to old Hanford townsite	535	S							6	71	65	29			171
	Columbia R 12: Rock Island to Rocky Reach Dam	541	S						6							6
	Columbia R 14: Wells to Chief Joseph Dam	545	S			47	12	59	24							142
	Columbia R. Mainstem Totals		S W		221	837	1,298	71	30	77	430	142	83		6	3,195 41
	Cowlitz R. System	Blue Creek (Lewis Co.)	507	S W				15	9	6	9					
Coweeman River		557	W												5	5
Cowlitz R. above Cowlitz Falls Dam		559	W				5						5	5		15
Cowlitz R. below Mayfield Dam		561	S W		210	597	4,254	2,318	791	254				128	112	8,424 4,633
Cowlitz R. between Mayfield & Cowlitz Falls Dams		563	W			11	21									32

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																
System	Area	Code	Run	2020								2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Cowlitz R. System (continued)	Green River (Cowlitz Co.) below Toutle Hatchery	565	S									6			6	
			W									11			11	
	Olequa Creek (Cowlitz Co.)	569	S	6											6	
			W	33											16	
	Toutle River, No. Fork	575	S	6											6	
			W	11 33 55 66 22 28								5			215	
Toutle River, So. Fork	577	S												5		
		W									133 112			4,717		
Cowlitz R. System Totals			S	221 630 4,354 2,384 813 288											8,690	
			W	11 26								384 901 3,150			4,717	
Elochoman R. System	Elochoman River above Foster Rd Bridge	584	S	30 30 12 3											75	
			W									12 30			102	
	Elochoman River below Foster Rd Bridge	583	S	6 6											12	
W											18			24		
Elochoman R. System Totals			S	30 36 18 3											87	
			W									12 48			126	
Grande Ronde R. System	Grande Ronde River	592	S	7 218 168 126								175 126 379			1,199	
Grays R. System	Grays River above Barr Rd Bridge	595	W									18			18	
Kalama R. System	Kalama River above Kalama Falls Hatchery	602	S	3											3	
			W	3								7			73	
	Kalama River below Mod- row Bridge	604	S	27 3 3 3											39	
			W	16 11 60 33 8 14								13			53	
Kalama River between Modrow Bridge and Kalama Falls Hatchery	603	S	16 11 60 33 8 14								13 13			142		
		W	19 11 87 36 14 17								53 53 59			191		
Kalama R. System Totals			S	19 11 87 36 14 17											184	
			W									20 13			264	

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																
System	Area	Code	Run	2020								2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Klickitat R. System	Klickitat River above Fishway 5	608	S		22	131	164	349	109	196	33					1,004
	Klickitat River below Fishway 5	607	S			11		11		33	22		11		88	
	Klickitat R. System Totals		S		22	142	164	360	109	229	55		11		1,092	
Lewis R. System	Lewis River (below E. Fork)	611	S		13	19	51	77	6	6					172	
			W										4	4		
	Lewis River, E. Fork	613	S					13	19	26					58	
			W								16	8		4	4	32
Lewis River, No. Fork	615	S			19	504	268	51	6					848		
		W									16	12	4	12	44	
Lewis R. System Totals			S		13	38	555	358	76	38				1,078		
			W								16	24	12	12	16	80
Little White Salmon R. Sys.	Little White Salmon River & Drano Lake	618	S							12					12	
Mill Cr. System (Cowlitz)	Mill Creek (Cowlitz Co.)	624	W									6			6	
Salmon Cr. System (Clark)	Salmon Creek (Clark Co.)	635	W										6	6	12	
Snake R. Mainstem	Snake R 1: below Ice Harbor Dam	640	S						11	16	22	5		5	5	64
	Snake R 2: Ice Harbor to Lower Monumental Dam	642	S						296	480	313	167	97	86	97	1,536
	Snake R 3: Lower Monumental to Little Goose Dam	644	S						32	92	59	65	102	11	16	377
	Snake R 4: Little Goose to Lower Granite Dam	646	S						11	11	70	65	92	59	22	330
	Snake R 5: Lower Granite Dam to Interstate Bridge, Clarkston	648	S						189	296	415	146	38	43	11	1,138
	Snake R 6: upstream of the Interstate Bridge, Clarkston	650	S						108	243	313	92	22	38		816
	Snake R. Mainstem Totals			S					647	1,138	1,192	540	351	242	151	4,261
Tucannon R. System	Tucannon River	653	S			3			6	6					15	

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																	
System	Area	Code	Run	2020									2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Walla Walla R. System	Touchet River	657	S											3		56	59
	Walla Walla River	659	S						3	15	3	15					36
	Walla Walla R. System Totals		S						3	15	3	15	3			56	95
Washougal R. System	Little Washougal River	661	S		6												6
	Washougal Hatchery on Washougal River	663	S			3											3
	Washougal River above County Line Access	668	W									6					6
	Washougal River below County Line Access	667	S W			12	24						42	36	12	18	108
	Washougal R. System Totals		S W		6	15	24						48	36	12	18	114
Wenatchee R. System	Lake Wenatchee	670	S					3									3
	Wenatchee River	674	S									3			3		6
	Wenatchee R. System Totals		S					3				3			3		9
White Salmon R. System	Big White Salmon River	508	S		3				3	3							9
			W									6					6
Columbia River and Tributary System Totals (All non-Boldt)			S		535	1,709	6,518	3,224	1,714	2,050	1,848	826	623	371	592	20,010	
			W			11	26				181	269	576	984	3,385	5,432	

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																	
System	Area	Code	Run	2020								2021			Total		
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Marine Water	Area 6: E Juan de Fuca	6	W												11	11	
	Area 9: Admiralty Inlet	9	S				8										8
	Marine Water Totals		S W				8									11	8 11
Dewatto R. System	Dewatto River	732	W											6		6	
Dungeness R. System	Dungeness River	738	W											6		6	
Green-Duwamish R. Sys	Green (Duwamish River) (King Co.)	746	S			11	11	8	4	4						38	
Hoko R. System	Hoko River	752	W										17			17	
Nooksack R. System	Nooksack River, No. Fork	790	W										6			6	
	Nooksack River, below North Fork	794	W											6		6	
	Nooksack R. System Totals		W										6	6		12	
Sekiu R. System	Sekiu River	818	W											6		6	
Skagit R. System	Cascade River	826	W										6			6	
	Skagit River	830	S					8		8						16	
	Skagit R. System Totals		S W					8		8			6			16 6	
Snohomish R. System	Skykomish River	844	S		22	82	193	15	22							334	
			W									75	100	25	200		
	Skykomish River, No. Fork	846	W									33			33		
	Snohomish River	850	S			15										15	
			W										17			17	
	Snoqualmie River	852	S			15			15							30	
			W								8	8			16		
	Tokul Creek	856	W											17	8	25	
Wallace River	860	S						7							7		
		W								17		8		25			
Snohomish R. System Totals		S W		22	112	193	15	44				25	116	142	33	386 316	

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																
System	Area	Code	Run	2020								2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Stillaguamish R. System	Stillaguamish R, No. Fork	872	S								30					30
			W									6				6
	Stillaguamish River	876	S						4							4
			W										39	17		56
	Stillaguamish R. System Totals		S						4	30						34
			W									6	39	17		62
Puget Sound, Strait of Juan de Fuca River Systems and Marine Catch Area Totals (All are Boldt Case Areas)			S		22	123	212	31	52	42						482
			W									31	184	183	44	442

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

UNKNOWN																
System	Area	Code	Run	2020								2021			Total	
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Unknown Area Totals			S			45				15						60
			W									14	14		14	42

Table 31. 2020-2021 Steelhead Sport Catch, by Area and Month (continued)

STATEWIDE TOTALS																	
System	Area	Code	Run	2020								2021			Total		
				April	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Statewide Totals			S		568	2,022	7,768	3,963	2,023	2,291	1,848	826	623	371	592	22,895	
			W			11	26					407	1,799	1,517	1,851	3,617	9,228
			Grand Total		568	2033	7794	3963	2023	2291	2,255	2625	2,140	2222	4,209	32,123	

Table 32. 2020-2021 Washington Sport Steelhead Fishing, by Residence

County of Residence	Number of Catch Record Cards	Population by County	% Catch Record Card Holders	Total Steelhead	Average Catch per Card
Adams	1,709	20,027	8.5	14	0.01
Asotin	2,211	22,820	9.7	521	0.24
Benton	21,045	206,426	10.2	1,056	0.05
Chelan	7,722	77,574	10.0	43	0.01
Clallam	9,964	78,067	12.8	637	0.06
Clark	42,999	496,865	8.7	2,360	0.05
Columbia	557	4,048	13.8	29	0.05
Cowlitz	19,033	111,371	17.1	3,924	0.21
Douglas	3,722	43,560	8.5		
Ferry	391	7,759	5.0		
Franklin	9,569	97,075	9.9	652	0.07
Garfield	355	2,290	15.5	102	0.29
Grant	5,770	99,377	5.8	29	0.01
Grays Harbor	11,124	75,950	14.6	2,722	0.24
Island	11,188	86,014	13.0	29	0.00
Jefferson	3,651	32,700	11.2	43	0.01
King	95,682	2,274,315	4.2	2,114	0.02
Kitsap	23,373	272,787	8.6	232	0.01
Kittitas	3,671	49,204	7.5	29	0.01
Klickitat	3,329	22,697	14.7	188	0.06
Lewis	11,492	82,109	14.0	3,329	0.29
Lincoln	808	11,090	7.3	29	0.04
Mason	6,697	68,224	9.8	73	0.01
Okanogan	3,269	42,620	7.7	58	0.02
Pacific	4,172	22,984	18.2	304	0.07
Pend Oreille	529	14,144	3.7		
Pierce	63,487	913,890	6.9	3,649	0.06
San Juan	2,267	17,492	13.0		
Skagit	16,544	130,789	12.6	174	0.01
Skamania	1,388	12,107	11.5	43	0.03
Snohomish	59,358	830,393	7.1	1,317	0.02
Spokane	16,377	528,225	3.1	1,549	0.09
Stevens	3,077	46,360	6.6	14	0.00
Thurston	22,529	294,074	7.7	1,621	0.07
Wahkiakum	1,057	4,498	23.5	406	0.38
Walla Walla	5,127	61,292	8.4	477	0.09
Whatcom	19,524	231,016	8.5	145	0.01
Whitman	2,044	49,500	4.1	391	0.19
Yakima	20,552	251,879	8.2	1,390	0.07
Unknown WA	1,254			29	0.02
Washington Total	538,617	7,693,612	7.0	29,722	0.06
Other State Total	35,210			2,403	0.07
Canada	89				
Other	94				
Grand Total	574,010			32,125	0.06

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2020.
 Source: Population Division, U.S. Census Bureau. Release Date: July 2020

Table 33. 2020-2021 Frequency Distribution of Estimated Steelhead Catch Record Cards and Catch

#Steelhead per Catch Record Card	Number of Cards	Cumulative Number of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	562,813	562,813	98.0%	98.0%	0	0	0.0%	0.0%
1	5,683	568,496	1.0%	99.0%	5,683	5,683	17.7%	17.7%
2	2,239	570,735	0.4%	99.4%	4,478	10,161	13.9%	31.6%
3	780	571,515	0.1%	99.6%	2,340	12,501	7.3%	38.9%
4	809	572,324	0.1%	99.7%	3,236	15,737	10.1%	49.0%
5	289	572,613	0.1%	99.8%	1,445	17,182	4.5%	53.5%
6	303	572,916	0.1%	99.8%	1,818	19,000	5.7%	59.1%
7	231	573,147	0.0%	99.8%	1,617	20,617	5.0%	64.2%
8	202	573,349	0.0%	99.9%	1,616	22,233	5.0%	69.2%
9	101	573,450	0.0%	99.9%	909	23,142	2.8%	72.0%
10	43	573,493	0.0%	99.9%	430	23,572	1.3%	73.4%
11	43	573,536	0.0%	99.9%	473	24,045	1.5%	74.8%
12	72	573,608	0.0%	99.9%	864	24,909	2.7%	77.5%
13	72	573,680	0.0%	99.9%	936	25,845	2.9%	80.4%
14	101	573,781	0.0%	100%	1,414	27,259	4.4%	84.8%
15	29	573,810	0.0%	100%	435	27,694	1.4%	86.2%
16	29	573,839	0.0%	100%	464	28,158	1.4%	87.6%
17	14	573,853	0.0%	100%	238	28,396	0.7%	88.4%
18	14	573,867	0.0%	100%	252	28,648	0.8%	89.2%
20	14	573,881	0.0%	100%	280	28,928	0.9%	90.0%
21	29	573,910	0.0%	100%	609	29,537	1.9%	91.9%
22	43	573,953	0.0%	100%	946	30,483	2.9%	94.9%
27	14	573,967	0.0%	100%	378	30,861	1.2%	96.0%
28	14	573,981	0.0%	100%	392	31,253	1.2%	97.3%
30	29	574,010	0.0%	100%	870	32,123	2.7%	100%
Total	574,010		100%		32,123		100%	

Table 34. 2020-2021 Sport Steelhead Inventory of Catch Record Cards Reported

Response Type	With Catch	No Catch	Total Reports	Number of Steelhead	Catch per Card
Prior to reminder	31	9,257	9,288	50	0.01
After 1st reminder postcard	595	25,847	26,442	1,708	0.06
After 2nd reminder postcard	145	3,843	3,988	466	0.12
Total	771	38,947	39,718	2,224	0.06

Marine Fish



Table 35. 2020 Coastal Marine Fish Catch

Species	Catch Area					Total
	Area 1 Ilwaco	Area 2 Westport	Area 3 La Push	Area 4 Neah Bay (Ocean)	Area 4B Neah Bay (Strait)	
Black Rockfish	16,302	67,834	1,458	12,413	6,533	104,540
Blue Rockfish	21	62	37	835	477	1,432
Yellowtail Rockfish	9,315	36,785	114	461	87	46,762
China Rockfish	25	9	14	294	41	383
Quillback Rockfish	101	373	5	206	46	731
Copper Rockfish	66	100	22	217	110	515
Canary Rockfish	943	4,482	75	243	54	5,797
Yelloweye Rockfish	7	8		3		18
Tiger Rockfish	100	53		26	15	194
Vermillion Rockfish	31	2	6	158	31	228
Other Rockfish	113					113
Boccaccio	251	80	2	13		346
Lingcod	4,078	19,287	662	4,838	2,961	31,826
Kelp Greenling	563	288		251	616	1,718
Pacific Cod	24	2		182	59	267
Other Cod	4		11	37	15	7
Cabazon	423	413	12	623	559	2,030
Flatfish	661	7,169		70	57	7,957
Surf Perch	542	10				552
Albacore Tuna	12,335	15,077				27,412
Sharks and Skates		47			7	54
Miscellaneous	1,675	3,410	26	234	32	5,377

Table 36. Coastal Washington Recreational Pacific Halibut Catch 2000-2020

Year	Columbia Catch Area 1	South Coast Catch Area 2	North Coast Catch Areas 3-4
2000	370	1,980	4,286
2001	387	2,085	5,752
2002	347	1,644	5,219
2003	327	2,482	5,576
2004	447	3,455	5,627
2005	518	2,981	5,046
2006	693	2,377	4,562
2007	585	2,017	3,136
2008	667	2,375	4,408
2009	391	2,328	4,841
2010	428	2,259	5,438
2011	480	2,613	4,931
2012	350	2,588	5,130
2013	292	2,664	5,387
2014	540	2,465	6,064
2015	590	2,557	5,247
2016	702	2,543	6,003
2017	949	3,835	5,683
2018	931	3,258	6,365
2019	1,082	4,138	8,011
2020	352	3,087	3,328

Table 37. 2020 Sport Bottomfish Catch by Boat-Based Anglers in Puget Sound

Species	Marine Area										Puget Sound Total	
	5	6	7	8-1	8-2	9	10	11	12	13		
Pacific Halibut	1,427	2,074	558			42						4,101
Starry Flounder	17	485	149	27	0	23	27	7			57	792
Soles	34	7	150		280	168	619	269			440	1,968
Sanddabs	32	26	429	199	29	2,437	2,595	239	14		56	6,055
Misc. Flatfish	26	106	518	457	4,616	26,864	17,430	21,109	384	5,945		77,454
Sablefish	23											23
Lingcod	405	178	3,495	373	18	292	112	42			149	5,065
Greenlings	416	78	1,721	1,065		61	2	43				3,387
Copper Rockfish	87											87
Quillback Rockfish	35											35
Brown Rockfish	9						6					15
Black Rockfish	2,794		6									2,800
Blue Rockfish	79											79
Yellowtail Rockfish	23											23
Vermillion Rockfish	18											18
Yelloweye Rockfish												0
Canary Rockfish	2											2
China Rockfish	26											26
Greenstriped Rockfish												0
Other Rockfishes				54								54
Pacific Cod	42											42
Walleye Pollock	2											2
Pacific Tomcod	2											2
Pacific Hake												0
Other Cod	9											9
Cabezon	103	65	726	11	4	47					33	988
Other Sculpins	6	2	59			99	9	24				198
Perches	5			135	150	569						859
Spiny Dogfish	4	48	205	27	27	233	67	137			32	778
Ratfish												0
Skates	6	5	84									95
Total	5,629	3,073	8,099	2,348	5,124	30,835	20,867	21,871	398	6,711	104,956	



Shellfish



Table 38. 2020-2021 Seasonal Summary of Sport Razor Clam Digging on Ocean Beaches

Location	Fall/Winter			Spring ²		
	Digger Trips	Clams Per Trip	Number of Clams	Digger Trips	Clams Per Trip	Number of Clams
Long Beach	32,020	15.0	480,298	0	0	0
Twin Harbors	19,403	15.0	291,158	0	0	0
Copalis	15,177	15.0	227,658	0	0	0
Mocrocks	14,908	15.0	223,619	0	0	0
Kalaloch	0	0	0	0	0	0
Total	81,508	15.0	1,222,732	0	0	0

¹ During the 2020/2021 Season, Fall and Winter openers occurred on evening (PM) tides on all beaches between September 16, 2020 and October 20, 2020, closing early due to domoic acid toxicity.

² During the 2020/2021 Season, Spring openers occurred on the morning (AM) tides between May 15, 2021 and May 30, 2021 on Mocrocks beach only due to domoic acid toxicity.

Table 39. 2020 Clam and Oyster Recreational Use and Harvest Estimates from Intertidal Areas East of Dungeness Spit

Marine Areas	Beach Name	User Trips	Pounds of Clams Harvested								Number of Oysters
			Manila	Littleneck	Butter	Cockle	Softshell	Horse	Geoduck	Total	
6	Sequim Bay SP	1,373	109	2,174	23	2,058	105	825		5,294	13,377
7	Birch Bay SP	6,568	1,826	2,758	27,587	1,473	43	1,976		35,663	1,174
	Drayton West	31	32	4	21	1				58	58
8-1	West Penn Cove	5,064	144	1,014	19,421	4,957	12	519		26,067	18,073
	Freeland CP	8	12	2	9					23	
9	Fort Flagler SP	776		658	2,704	421	30	812	64	4,689	
	Oak Bay CP	75	21	8	355	23		45		452	1
	Indian Island CP	205	244	14	326	3	5	25		617	59
	Port Gamble	5,087	9,253	2,225	2,985	1,285	435	3,481	75	19,739	34,986
	Wolfe + Shine SP	2,386	2,177	255	3,985	802	77	2,030	16	9,342	10,694
12	Dabob Broad Spit	801	2,487	236	11					2,734	1,520
	Quilcene Bay WDFW Tidelands	3,435	5,084					8		5,092	19,964
	Dosewallips SP	12,865	24,434	37		65	58			24,594	85,531
	Pt. Whitney Tidelands	1,793	1,318	119	122	7	2	22		1,590	13,023
	Eagle Creek		2,442	155	99	3,026	122	227	1,786	7,857	55,383
	DNR-44A W Dewatto	1,391	2,647	29		3	4	2		2,685	9,691
	Rendsland Creek	961	784	32	10	121	3			950	12,817
	Potlatch SP	31,682	31,246	2,517	15,009	12,840	179	799		62,590	246,964
	Belfair SP	12,503	15,071	8				51		15,130	111,733
	Duckabush	771	877	1		7		6	71	962	5,996
	Triton Cove Tidelands	2,104	1,055	99	112	199	1	30		1,496	16,702
	Lilliwaup SP	3,133	11	395	5,217	859		95		6,577	31,086
	Twanoh SP	4,967	1,291	3		259		1		1,554	52,686
13	North Bay	2,310	4,895	237			25			5,157	19,095
Total		100,289	107,460	12,980	77,996	28,409	1,161	10,894	2,012	240,912	760,613

Table 40. 2020 Puget Sound and Hood Canal Sport Spot Shrimp Fishery

Area	Date	Angler Trips	Pounds	CPUE (lbs. per trip)
4, 5	May through Sept (111 days)	425	1,300	3.1
6	May June Aug (26 days)	3,451	17,444	5.1
6 (Discovery Bay)	June (2 days)	389	1,702	4.4
7	May through Sept (39 days)	9,865	47,737	4.8
8-1 & 8-2	June (1 day)	2,694	14,926	5.5
9	June Aug (2 days)	1,137	5,238	4.6
10	June (1 day)	2,606	13,698	5.3
11	June (1 day)	1,001	4,285	4.3
12	June July (5 days)	19,999	95,653	4.8
13	None	na	na	na
Total		41,567	201,983	4.9

This table summarizes the recreational take of spot shrimp (*Pandalus platyceros*) in these areas for the 2020 spot shrimp season. No estimates of angler trips or pounds harvested of “non-spot” shrimps are included in this table.

Table 41. 2020 Sport Dungeness Crab Catch (all gear types)

Area 13 was closed for both summer and winter seasons. Areas 10 and 11 were open on a limited basis during the summer. Areas 10, 11, and Areas 12 south of Ayock Point were closed during the winter season.

Marine Area and location		Summer Season (lb. of crab)	Fall/Winter Season (lb. of crab)
4	Neah Bay	1,106	67
5	Sekiu/Pillar Point	4,325	416
6	Port Angeles Harbor, Dungeness & Sequim Bays, Discovery Bay	112,613	17,015
7	Gulf of Georgia, North of San Juan Islands, Bellingham Bay, Samish Bay, San Juan Islands, Anacortes	424,038	71,520
8-1	Skagit Bay, North Saratoga Passage, Holmes Harbor	371,807	27,907
8-2	South Saratoga Passage, Port Susan, Port Gardner	353,126	39,663
9 ¹	Admiralty Inlet, Port Townsend Bay, Useless Bay	66,678	13,074
10	Seattle/Kingston, Port Orchard	35,615	285
11	Colvos Pass, East Pass	26,585	65
12, 9 ²	Port Ludlow/Port Gamble, Upper Hood Canal, Central Hood Canal, Lower Hood Canal	62,635	19,418
13	South Puget Sound	101	36
Total		1,458,629	189,466

¹ Excluding all waters of Marine Area 9 south of a line from Foulweather Bluff to Olele Point.

² Including all waters of Marine Area 9 south of a line from Foulweather Bluff to Olele Point.



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