

Washington State Sport Catch Report 2019



**by Eric Kraig
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WASHINGTON STATE SPORT CATCH REPORT 2019

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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 2019 sport estimates reflect harvest from April 1, 2019, through March 31, 2020. Historically, salmon, sturgeon, halibut, marine fish and shellfish estimates were made on a calendar year basis from January 1 through December 31. Steelhead estimates were summarized from May 1 through the next April 30 to better capture the results of steelhead “run years”. Effective January 1, 1999, the sport license system adopted an April 1 to March 31 license year for all species. To adjust to the new reporting time frames, the 1999 sport report included 15 months of salmon and sturgeon catch and 11 months of steelhead catch (May 1, 1999 – March 31, 2000). When comparing past years’ sport harvest estimate tables, please note the changes in the license structure and reporting year as described above.

Sport Licenses and Catch Record Cards

In 2019, 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, 2019 through March 31, 2020. 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 2019-2020 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 2019 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 2019, 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 2019 are shown in Table 4. Between April 1, 2019, and March 31, 2020 a total of 231,238 salmon were caught in marine areas, and 194,154 salmon were caught in freshwater. The marine totals by species, as shown in Table 5, are: 42,212 chinook; 132,109 coho; 1,244 chum; 53,540 pink; 7 sockeye; and 351 jacks (all species combined). Freshwater species breakdowns are: 59,826 chinook; 65,830 coho; 2,951 chum; 47,184 pink; 3,097 sockeye; 17,349 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 2019, based on creel surveys and catch record card returns, was 2,665 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 2019-2020 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 2019 and the spring of 2019 256,927 digging trips resulted in a harvest of 3,420,017 clams, for an average of 13.3 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 82,935 sport harvester trips gathered 216,313 total pounds of clams and 526,979 oysters in 2019 on the monitored beaches.

The Puget Sound and Hood Canal shrimp fishery harvest is reported in Table 40. Shrimpers caught 208,223 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 1,548,616 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, 2019 - March 31, 2020 - License Year			
Type of License	Price	Number Sold	Value
Saltwater			
Resident	\$30.05	25,362	\$813,450.00
Non-Resident	\$59.75	3,294	\$158,028.00
Senior	\$8.05	4,285	\$26,420.00
Freshwater			
Resident	\$29.50	308,090	\$7,702,250.00
Non-Resident	\$84.50	12,699	\$952,425.00
Senior	\$7.50	29,746	\$148,730.00
Shellfish/Seaweed			
Resident	\$17.40	61,239	\$843,750.00
Non-Resident	\$36.10	7,677	\$188,379.00
Senior	\$7.50	9,073	\$58,420.00
Combination (Saltwater/Freshwater/Shellfish)			
Resident	\$55.35	110,066	\$4,952,970.00
Fish Washington	\$79.62	34,405	\$2,279,916.80
Non-Resident	\$124.65	3,608	\$389,664.00
Senior	\$19.05	18,103	\$271,545.00
Disabled/Veteran - Res	\$11.35	15,722	\$78,610.00
Disabled/Veteran - NR	\$55.35	581	\$26,145.00
Youth	\$8.05	9,911	\$49,555.00
Short-term Combination			
1-day Resident	\$11.35	47,988	\$383,904.00
1-day Non-Resident	\$20.15	33,911	\$542,576.00
2-day Resident	\$15.75	9,940	\$119,280.00
2-day Non-Resident	\$28.95	11,742	\$281,808.00
3-day Resident	\$19.05	11,612	\$174,180.00
3-day Non-Resident	\$35.55	17,619	\$528,570.00
Razor Clam			
Annual Resident	\$14.10	22,495	\$179,960.00
Annual Non-resident	\$21.80	2,610	\$43,212.00
3-day	\$9.70	34,394	\$171,970.00
PS Crab Endorsement			
Annual	\$8.75	120,790	\$905,925.00
1-5 day	\$3.80	10,744	\$32,232.00
Catch Cards with Halibut			
All	\$5.00	33,948	\$169,740.00
Charter/Guide Stamps			
Charter/Guide Stamps	\$8.50	25,545	\$217,047.50
Two-Rod Endorsements			
Resident / Non-resident	\$14.80	54,363	\$754,026.00
Senior	\$6.00	10,242	\$53,290.00
Columbia River Endorsements			
Resident / Non-resident	\$8.75	57,415	\$430,612.50
Senior / Youth	\$7.10	8,072	\$48,432.00
Duplicates			
Additional Catch Cards	\$12.60	16,767	\$184,437.00
Licenses	\$9.70	243	\$960.00
Total		1,184,301	\$24,162,419.80

*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 1971-2019

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

*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. 2019-2020 Catch Record Card Technical Data

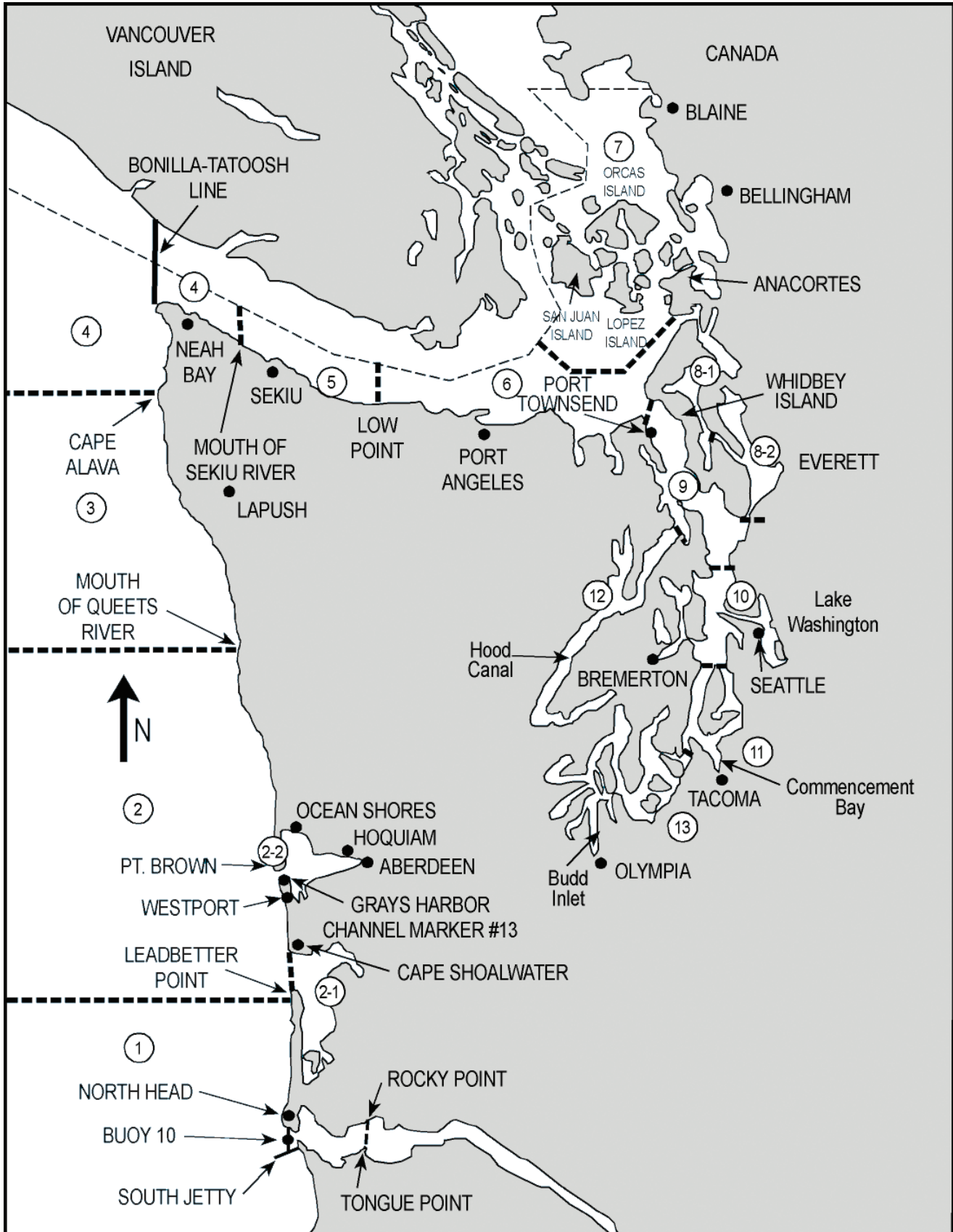
Cards Issued	499,128
In-sample cards	125,278
In-sample cards returned	38,713
Expansion Factor (Cards Issued / In-sample Returns)	13.54
Non-reporting bias correction factors	
Salmon - Marine Area 5	1.00
Salmon - Puget Sound Marine Areas	1.46
Salmon - Freshwater, Grays Harbor, Willapa Bay	1.20
Steelhead	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 4. Annual Sport Salmon Catch 1971-2019

Year	Total	Fresh-water	Un-known	Area 1	Area 1A	Area 2	Area 2-1	Area 2-2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Area 8-1	Area 8-2	Area 9	Area 10	Area 11	Area 12	Area 13
1971	1,344,818	145,904		342,928		446,738			39,682	87,184	71,947	39,573	28,355	5,189			54,920	35,225	27,332	19,841	
1972	1,138,926	121,432		307,938		353,113			31,278	61,704	45,446	45,058	29,536	3,097			42,968	32,942	35,962	28,452	
1973	1,095,360	147,554		236,385		348,406			49,900	48,645	33,347	40,308	14,852	3,966			52,935	42,574	61,919	14,569	
1974	1,320,420	88,048		334,664		320,467			74,832	80,362	50,319	53,222	36,318	5,491			76,518	69,341	105,110	25,728	
1975	1,399,375	101,531		308,475		331,565			57,356	59,451	48,975	74,336	37,626	7,726			100,089	78,832	162,072	31,341	
1976	1,749,560	100,601		433,026		543,295			70,133	68,670	63,966	102,639	55,396	21,688			88,737	62,607	61,562	24,405	52,835
1977	1,191,414	96,843		248,518		321,888			38,359	86,186	73,106	61,568	31,709	17,792			64,651	39,372	44,657	22,020	44,745
1978	1,107,852	86,845		220,548		269,338			24,439	52,270	59,400	68,849	36,293	13,229			73,187	56,479	48,018	26,801	72,156
1979	1,123,809	88,659		167,478		174,365			24,160	53,840	134,354	70,839	48,101	33,835			104,619	71,167	71,495	20,006	60,891
1980	852,879	105,461		158,883		163,748			19,146	29,500	39,587	52,663	24,457	18,432			60,072	52,128	57,751	17,138	53,913
1981	760,104	58,128		142,879		151,301			1,734	36,883	55,900	56,318	21,826	16,986			67,838	42,602	42,175	14,989	50,545
1982	749,995	91,849		102,769	13,069	158,005			9,857	42,716	67,611	33,870	12,947	9,940			49,853	49,727	51,975	8,672	47,135
1983	860,623	108,783		95,593	3,006	100,791			7,318	58,469	62,486	74,311	29,844	23,268			98,485	54,228	72,772	11,756	59,513
1984	561,428	142,170		23,927	55,865	16,631			167	6,604	39,276	67,246	29,985	17,442			79,526	24,130	28,781	5,158	24,520
1985	686,333	107,734		75,013	18,914	93,620			2,062	26,878	101,920	45,342	23,798	25,427			75,193	33,019	38,157	4,897	14,359
1986	830,644	115,469		69,915	86,360	98,421			2,553	25,027	138,951	71,544	27,550	26,822			79,730	33,686	33,891	3,460	17,265
1987	782,834	110,636		62,393	61,048	71,458			3,005	29,418	107,138	82,377	27,152	31,421			86,270	42,179	32,753	8,947	26,639
1988	703,088	168,594		22,960	120,019	62,001			3,341	19,576	107,935	47,483	22,225	16,514			47,109	28,020	22,202	2,420	12,689
1989	832,214	121,417		87,755	67,734	100,000			2,405	44,600	164,580	64,766	19,078	23,165			63,724	36,748	24,561	4,588	7,093
1990	824,143	107,934		97,844	16,850	102,984			5,809	48,329	223,012	54,848	12,797	14,865			57,875	47,519	25,555	1,618	6,304
1991	943,473	153,719		77,608	152,974	107,362	1,965	9,047	5,615	43,357	216,816	42,812	16,602		3,528	16,809	40,390	32,229	15,549	3,225	3,866
1992	569,195	90,032		48,356	37,157	67,427	1,978		2,031	25,820	108,876	30,894	12,515		3,295	11,836	47,157	51,338	18,198	6,303	5,982
1993	599,361	145,579		49,587	17,975	57,990	2,260	743	3,469	31,154	80,496	44,174	35,697		6,150	18,170	41,949	36,699	14,130	3,540	9,599
1994	156,896	61,142			1,069	71	2,574	1,971	Closed	Closed	518	1,184	8,322		1,917	3,301	6,978	23,279	25,360	8,905	10,305
1995	524,232	190,158		3,743	24,954	29,122	936	1,799	1,990	15,604	53,553	20,617	23,801		23,503	42,900	22,920	28,560	28,242	5,200	6,630
1996	390,660	161,108		17,882	3,509	23,089	2,422	2,601	1,901	8,750	41,820	18,103	15,486		2,350	13,968	20,343	18,972	25,417	6,408	6,531
1997	394,868	98,220		11,976	22,441	16,261	409	1,433	1,260	2,577	52,890	23,614	35,016		5,894	37,649	24,356	25,277	23,146	7,089	5,360
1998	235,466	78,664		4,738	5,364	9,348	1,329	2,970	762	8,045	24,509	6,657	5,801		2,095	12,409	24,324	16,674	17,272	7,782	6,723
1999	239,317	92,611		21,989	11,222	19,056	2,137	1,207	4,387	6,650	24,546	3,509	5,765		1,519	8,805	9,228	4,009	14,517	4,046	4,114
2000	401,180	191,805	4,228	27,889	16,335	34,636	870	2,736	2,519	11,652	29,883	4,334	7,178		2,105	12,798	12,608	15,681	14,212	4,580	5,131
2001	1,056,395	405,590	11,042	82,641	80,701	85,645	1,255	5,784	4,188	21,991	87,639	12,081	17,268		17,685	74,947	70,259	26,448	27,761	17,677	5,793
2002	551,479	306,424	6,443	53,015		61,715	960	3,530	3,736	13,523	35,100	1,418	8,326		1,544	8,609	12,731	11,885	12,044	7,039	3,437
2003	810,616	342,884	6,940	83,164		64,733	1,953	2,135	6,537	32,207	88,885	13,781	12,409		10,573	51,784	44,697	16,541	17,719	10,898	2,776
2004	474,929	214,116	2,562	59,321		38,616	1,759	6,017	5,152	34,760	45,000	2,511	3,428		1,117	7,606	15,024	13,766	13,944	7,293	2,937
2005	451,411	200,535	1,789	38,490		32,823	3,580	1,910	4,316	15,297	58,621	3,295	5,934		1,691	18,846	24,125	12,866	15,022	8,392	3,879
2006	288,716	174,224	1,212	21,254		14,506	3,368	1,812	3,754	7,136	13,244	1,601	4,486		378	2,280	6,398	11,193	12,024	6,214	3,632
2007	545,737	231,800	2,501	49,108		28,694	1,473	1,635	3,545	16,057	75,084	6,626	9,961		1,513	21,604	41,906	20,149	22,602	6,955	4,524
2008	251,975	160,431	1,491	11,729		16,983	2,788	1,001	1,356	3,415	14,765	1,437	3,651		580	1,303	6,982	8,007	9,598	3,124	3,334
2009	1,074,938	571,230	16,885	69,430		60,414	5,975	5,257	10,437	69,692	73,767	16,056	10,173		6,207	32,774	63,436	30,738	26,325	4,081	2,061
2010	335,931	204,196	3,881	24,191		39,821	1,893	2,122	2,196	6,934	19,540	3,014	4,543		234	961	7,786	6,369	4,621	2,415	1,214
2011	906,876	572,283	15,699	26,948		34,069	6,314	3,327	5,558	13,024	62,003	20,257	19,305		12,935	23,979	35,631	23,810	22,540	5,738	3,456
2012	584,694	285,247	4,624	17,131		31,417	4,358	9,030	3,804	12,787	72,396	17,494	9,228		2,549	13,863	53,679	25,308	12,690	6,855	2,234
2013	1,125,794	732,850	8,557	23,121		35,062	2,756	2,660	6,117	18,368	65,534	26,851	26,506		10,227	26,038	85,769	31,508	15,574	5,541	2,755
2014	698,126	346,446	6,772	67,498		77,815	14,583	7,397	7,484	10,248	52,908	21,705	11,222		3,743	9,414	36,758	14,032	4,693	3,544	1,864
2015	1,047,693	522,102	11,060	45,127		51,905	19,051	2,475	4,041	18,228	81,907	34,792	40,107		10,743	37,910	117,477	31,481	12,217	4,331	2,739
2016	305,960	220,736	2,687	21,034		8,352	7,452	819	164	3,415	4,224	7,317	6,205		517	1,143	5,754	1,635	2,167	9,675	2,664
2017	388,305	220,195	2,655	21,544		21,498	6,192	2,494	2,025	11,732	13,318	5,852	13,055		517	1,496	14,286	25,579	8,726	11,397	5,744
2018	337,807	152,856	1,766	15,063		20,122	1,969	1,289	1,130	8,225	19,505	14,972	13,867		1,640	11,646	15,924	32,650	12,468	8,228	4,487
2019	427,475	194,154	2,083	39,690		22,168	3,193	2,117	2,656	10,931	24,287	12,334	11,916		2,402	11,614	32,489	39,879	8,810	3,626	3,126

Note: In 1976, several area boundary lines were changed resulting in thirteen catch areas instead of twelve. The changes were mostly reflected in catch Areas 8, 9, 10 and new Area 13. In 1989, catch Area 8 was subdivided into Areas 8-1 and 8-2 and catch Area 2 was subdivided into Areas 2-1 and 2-2. For comparative purposes, the catch for Areas 8-1 and 8-2 are totaled and entered under Area 8 until 1990. Beginning in 1991, Areas 8-1 and 8-2, are reported separately. Similarly, the catch in Areas 2-1 and 2-2 are included in the total catch for Area 2 until 1990. Beginning in 1991, they are reported separately. The total catch for Area 1 and Area 1A is included in the total catch for Area 1 until 1981. Starting in 1982, they are reported separately. Beginning in 2002, Area 1A catch is included in the freshwater total.

Note: Prior to 1999, sport salmon estimates were based on calendar years. In 1999, the sport estimates cover January 1, 1999 - March 31, 2000. Starting in 2000, sport salmon estimates are based on the fishing license year which runs from April 1 to March 31.

Table 5. Total 2019-2020 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)	2,781	36,904		5				39,690	30,591	1.30
Westport (Area 2)	2,012	19,461		695				22,168	21,523	1.03
Willapa Bay (Area 2.1)	1,538	1,372	11			196	76	3,193	N/A	
Grays Harbor (Area 2.2)	166	1,862	10				79	2,117	N/A	
LaPush (Area 3)	546	1,901		209				2,656	2,412	1.10
Neah Bay (Area 4)	3,923	6,142		865				10,930	10,034	1.09
Subtotal Coast*	10,966	67,642	21			196	155	80,754	64,560	1.17
Seki-u-Pillar Point (Area 5)	5,162	12,286	24	6,815				24,287	32,288	0.75
East Juan de Fuca (Area 6)	4,496	3,550		4,288				12,334	13,110	0.94
San Juan Islands (Area 7)	5,265	5,747		897	7			11,916	26,541	0.45
Deception Pass, Hope Island (Area 8-1)	101	2,099		202				2,402	3,186	0.75
Port Susan & Port Gardner (Area 8-2)	942	548	7	10,117				11,614	12,262	0.95
Admiralty Inlet (Area 9)	5,233	7,449	34	19,773				32,489	47,409	0.69
Seattle-Bremerton (Area 10)	3,552	28,512	251	7,564				39,879	47,477	0.84
Tacoma-Vashon Island (Area 11)	2,886	2,506	25	3,393				8,810	26,576	0.33
Hood Canal (Area 12)	1,495	1,320	412	399				3,626	3,339	1.09
South Puget Sound (Area 13)	2,114	450	470	92				3,126	3,766	0.83
Subtotal Puget Sound	31,246	64,467	1,223	53,540	7			150,483	215,954	0.70
Marine Area Totals*	42,212	132,109	1,244	53,540	7	196	155	231,237	280,514	0.82
Freshwater Totals	59,826	65,830	2,951	47,184	3,097	7,127	10,222	196,237	N/A	
Grand Totals	102,038	197,939	4,195	100,724	3,104	7,323	10,377	427,474	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. 2019 Sport Salmon Catch, Area 1 - Ilwaco: Ocean

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 23	2019	47	758				805	529	1.52
June 30	2019	192	2,786				2,978	1,904	1.56
July 7	2019	862	3,354				4,216	3,044	1.38
July 14	2019	432	5,319				5,751	3,604	1.60
July 21	2019	32	1,880	5			1,917	1,363	1.41
July 28	2019	245	4,448				4,693	3,199	1.47
August 4	2019	224	2,501				2,725	2,677	1.02
August 11	2019	281	6,697				6,978	5,218	1.34
August 18	2019	143	4,374				4,517	4,088	1.10
August 25	2019	144	2,243				2,387	2,084	1.15
September 1	2019	95	1,183				1,278	1,546	0.83
September 8	2019	61	989				1,050	908	1.16
September 15	2019	20	276				296	286	1.03
September 22	2019		88				88	120	0.73
September 29	2019	2	4				6	11	0.53
October 6	2019	1	6				7	10	0.65
October 13	2019								
Total		2,781	36,904	5			39,690	30,591	1.30

Table 7. 2019 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 4	2019	102	60				162	1,239	0.13
August 11	2019	794	104				898	3,103	0.29
August 18	2019	1,218	558				1,776	6,138	0.29
August 25	2019	507	992				1,499	4,414	0.34
September 1	2019	11	1,875				1,886	3,447	0.55
September 8	2019	6	1,459				1,465	2,008	0.73
September 15	2019		698				698	1,185	0.59
September 22	2019		228				228	469	0.49
September 29	2019		62				62	444	0.14
Total		2,638	6,036				8,674	22,447	0.39

Table 8. 2019 Sport Salmon Catch, Area 2 - Westport

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 23	2019	70	23				93	475	0.20
June 30	2019	50	280				330	1,030	0.32
July 7	2019	77	440	2			519	868	0.60
July 14	2019	324	2,327	13			2,664	2,284	1.17
July 21	2019	211	1,918	32			2,160	2,115	1.02
July 28	2019	204	2,537	76			2,817	2,833	0.99
August 4	2019	170	1,794	427			2,392	2,177	1.10
August 11	2019	157	3,672	51			3,880	2,568	1.51
August 18	2019	219	2,572	68			2,859	2,163	1.32
August 25	2019	187	1,570	17			1,774	1,650	1.07
September 1	2019	221	1,258	2			1,480	1,572	0.94
September 8	2019	82	472	8			562	1,019	0.55
September 15	2019	19	532				552	570	0.97
September 22	2019	18	61				79	174	0.45
September 29	2019							12	0.00
October 6	2019	1	4				5	13	0.38
October 13	2019								
Total		2,012	19,461	695			22,168	21,523	1.03

Table 9. 2019-2020 Sport Salmon Catch, Area 2-1 - Willapa Bay

Calendar Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Chinook Jacks	Coho Jacks	Total Salmon
June	2019		11						11
July	2019	342	80						422
August	2019	954	390				185	33	1,562
September	2019	242	880			11	11	43	1,187
October	2019		11						11
Total		1,538	1,372			11	196	76	3,193

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

Table 10. 2019-2020 Sport Salmon Catch, Area 2-2 - Grays Harbor

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Chinook Jacks	Coho Jacks	Total Salmon
July	2019		44						44
August	2019	77	33						110
September	2019	89	1,022			10		70	1,191
October	2019		741					9	750
November	2019		22						22
Total		166	1,862			10		79	2,117

Table 11. 2019 Sport Salmon Catch, Area 3 - La Push

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 23	2019							52	0.00
June 30	2019	23	12				35	71	0.49
July 7	2019	36	23				59	64	0.92
July 14	2019	56	79	2			137	142	0.96
July 21	2019	29	103	2			134	169	0.79
July 28	2019	21	199	34			254	223	1.14
August 4	2019	35	90	33			158	155	1.02
August 11	2019	48	184	81			313	280	1.12
August 18	2019	59	262	34			355	239	1.48
August 25	2019	29	313	21			363	267	1.36
September 1	2019	15	304	2			321	225	1.43
September 8	2019	15	262				277	181	1.53
September 15	2019	2	52				54	43	1.25
September 22	2019							27	0.00
September 29	2019	2					2	13	0.15
October 6	2019	157	17				174	218	0.80
October 13	2019	19	1				20	42	0.47
Total		546	1,901	209			2,656	2,412	1.10

Table 12. 2019 Sport Salmon Catch, Area 4 - Neah Bay

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June 23	2019	59	229	8			296	714	0.42
June 30	2019	1,402	515	7			1,924	1,813	1.06
July 7	2019	1,599	381				1,980	1,832	1.08
July 14	2019	851	1,502	53			2,407	2,002	1.20
July 21	2019		813	28			841	671	1.25
July 28	2019	3	607	180			790	628	1.26
August 4	2019	6	203	130			338	344	0.98
August 11	2019		816	380			1,196	767	1.56
August 18	2019	1	253	64			318	276	1.15
August 25	2019		206	14			220	223	0.98
September 1	2019		300	1			301	361	0.83
September 8	2019	1	201				202	219	0.93
September 15	2019		106				106	95	1.12
September 22	2019	1	1				3	61	0.04
September 29	2019		9				9	27	0.34
October 6	2019								
October 13	2019								
Total		3,923	6,142	865			10,931	10,034	1.09

Table 13. 2019-2020 Sport Salmon Catch, Area 5 - Sekiu - Pillar Point

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
April	2019	568	27				595	561	1.06
July	2019	4,277	843	2,555			7,675	13,365	0.57
August	2019	859	4,482	4,204		24	9,569	10,523	0.91
September	2019		6,961	56			7,017	8,363	0.84
November	2019	13					13	12	1.08
March	2020	13					13	25	0.52
Total		5,730	12,313	6,815		24	24,882	32,849	0.76

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

Table 14. 2019-2020 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
April	2019	245					245	421	0.58
July	2019	3,246	17	546			3,809	4,265	0.89
August	2019	549	517	3,543			4,609	3,626	1.27
September	2019	7	3,016	199			3,222	2,791	
March	2020	449					449	2,007	0.22
Total		4,496	3,550	4,288			12,334	13,110	0.94

NOTE: Estimates for April and March are from creel surveys; other estimates are from catch record cards.

Table 15. 2019-2020 Sport Salmon Catch, Area 7 - San Juan Islands

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
April	2019	200					200	1,002	0.20
July	2019	2,866	51	501	7		3,425	11,276	0.30
August	2019	334	96	77			507	816	0.62
September	2019	106	5,600	319			6,025	4,985	1.21
February	2020	1,345					1,345	6,065	0.22
March	2020	414					414	2,397	0.17
Total		5,265	5,747	897	7		11,916	26,541	0.45

NOTE: Estimates for April, July, and February-March are from creel surveys; other estimates are from catch record cards.

Table 16. 2019-2020 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
April	2019	12					12	59	0.20
July	2019	9					9	15	0.60
August	2019		296	202			498	525	0.95
September	2019		1,558				1,558	1,540	1.01
October	2019		245				245	367	0.67
February	2020	39					39	382	0.10
March	2020	41					41	298	0.14
Total		101	2,099	202			2,402	3,186	0.75

NOTE: Estimates for April and February-March are from creel surveys; other estimates are from catch record cards.

Table 17. 2019-2020 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
April	2019	29					29	148	0.20
May	2019	27					27	44	0.61
June	2019	82					82	127	0.65
July	2019	335					335	550	0.61
August	2019	143	134	8,712		7	8,996	6,144	1.46
September	2019		414	1,405			1,819	1,916	0.95
February	2020	165					165	1,810	0.09
March	2020	161					161	1,523	0.11
Total		942	548	10,117		7	11,614	12,262	0.95

NOTE: Estimates for April and February-March are from creel surveys; other estimates are from catch record cards.

Table 18. 2019-2020 Sport Salmon Catch, Area 9 - Admiralty Inlet

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
April	2019	926					926	2,118	0.44
May	2019	9					9	12	0.75
June	2019	36	18				54	71	0.76
July	2019	2,998	723	392			4,113	14,063	0.29
August	2019	471	813	17,480		34	18,798	15,527	1.21
September	2019	215	5,849	1,865			7,929	10,581	0.75
October	2019		37	36			73	95	0.77
December	2019		9				9	12	0.75
February	2020	334					334	2,929	0.11
March	2020	244					244	2,001	0.12
Total		5,233	7,449	19,773		34	32,489	47,409	0.69

NOTE: Estimates from April, July 25-August 9, and February-March are from creel surveys; all other estimates are from catch record cards.

Table 19. 2019-2020 Sport Salmon Catch, Area 10 - Seattle / Bremerton

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
June	2019	27	7,327	84			7,438	4,953	1.50
July	2019	1,605	5,912	598			8,115	13,987	0.58
August	2019	1,809	3,209	6,257	0	0	11,275	12,185	0.93
September	2019	56	11,313	625		7	12,001	12,181	0.99
October	2019		751				751	1,427	0.53
November	2019					244	244	227	1.07
January	2020	20					20	801	0.02
February	2020	25					25	1,106	0.02
March	2020	10					10	610	0.02
Total		3,552	28,512	7,564		251	39,879	47,477	0.84

NOTE: Estimates from July 25-August 18, and January-March are from creel surveys; all other estimates are from catch record cards.

Table 20. 2019-2020 Sport Salmon Catch, Area 11 -Tacoma / Vashon Island

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
April	2019	610					610	195	3.13
June	2019	9	9				18	17	1.06
July	2019	1,637	329	505			2,471	13,553	0.18
August	2019	982	786	2,589			4,357	10,592	0.41
September	2019	14	1,301	299		7	1,621	1,991	0.81
October	2019		81				81	162	0.50
November	2019					18	18	9	2.00
January	2020	9					9	12	0.75
February	2020	27					27	45	0.60
Total		3,288	2,506	3,393		25	9,212	26,576	0.35

NOTE: Estimates for July-August 25 are from creel surveys; other estimates are from catch record cards.

Table 21. 2019-2020 Sport Salmon Catch, Area 12 - Hood Canal

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
April	2019	290					290	328	0.88
July	2019	332		194			526	511	1.03
August	2019	659	278	205			1,142	1,346	0.85
September	2019	50	607			5	662	329	2.01
October	2019		393			87	480	280	1.71
November	2019		42			320	362	244	1.48
December	2019	9					9	14	0.64
February	2020	73					73	124	0.59
March	2020	82					82	163	0.50
Total		1,495	1,320	399		412	3,626	3,339	1.09

Table 22. 2019-2020 Sport Salmon Catch, Area 13 - South Puget Sound

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Angler Trips	Salmon per Trip
April	2019	45					45	41	1.10
May	2019	145					145	145	1.00
June	2019	349	4				353	369	0.96
July	2019	369	21				390	499	0.78
August	2019	986	104	16			1,106	1,450	0.76
September	2019	93	185	76			354	497	0.71
October	2019	34	101			101	236	236	1.00
November	2019	11				369	380	369	1.03
December	2019	3	6				9	12	0.75
January	2020		9				9	8	1.13
February	2020	18					18	18	1.00
March	2020	61	20				81	122	0.66
Total		2,114	450	92		470	3,126	3,766	0.83

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month

COASTAL RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2019								2020			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Grays Harbor	Elk River	342	Coho						11	140							151
			Total						11	140							151
	Hoquiam River	355	Coho							32			11				43
			Total						32			11				43	
	Humptulips River	358	Chinook					22	1,306	240							1,568
			Chum						54	11						65	
			Coho					416	370	141	22					949	
			Jackchin					43								43	
			Jackcoho					11	11							22	
	Johns River	367	Coho							32	75					107	
			Total							32	75					107	
	Wishkah River	335	Coho							127	35					162	
Jackcoho									11						11		
Total									138	35					173		
Chehalis R. System	Chehalis River	315	Chinook					11								11	
			Chum								22					22	
			Coho					11	2,851	3,346	1,313	204				7,725	
			Jackchin					11								11	
			Jackcoho					590	75	32						697	
	Satsop River	329	Chum							258	193					451	
			Coho							1,588	290	118				1,996	
			Jackchin							11						11	
			Jackcoho							247	32	11				290	
	Skookumchuck River	333	Coho							43	11					54	
			Total							43	11					54	
	Wynoochee River	337	Chum								21					21	
Coho									483	118	11				612		
Total									483	139	11				633		

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Black R. System	Black River (Thurston Co)	706	Coho								22					22
			Total									22				
Copalis R. System	Copalis River	339	Coho							260	217	54				531
			Jackcoho						11	54	65	11				141
			Total						11	314	282	65				672
Hoh R. System	Hoh River above Oxbow Launch	348	Chinook								33					33
			Chum										11			11
			Coho									131	76			207
			Total									164	87			251
	Hoh River below Oxbow Launch	350	Chinook							44	209	11				264
Coho								109	738	349				1,196		
Jackchin										11				11		
Jackcoho											11	22		33		
Total									153	969	382			1,504		
Queets R. System	Clearwater River	392	Chinook								52	21				73
			Coho							83	175	10			268	
			Total							83	227	31			341	
	Queets River	394	Chinook									52	31			83
			Coho							175		10			185	
			Jackcoho							41					41	
			Total							216	52	41			309	
	Salmon River (Jefferson Co)	396	Chinook									41	21			62
			Coho							114	10	62			186	
Jackcoho									72	21				93		
Total									186	72	83			341		
Quillayute R. System	Bogachiel River	398	Chinook							97	226				323	
			Coho							32	172				204	
			Jackchin							54	43				97	
			Jackcoho							22					22	
			Total							205	441				646	
	Calawah River	400	Chinook									11			11	
Coho											32			32		
Total											43			43		

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2019								2020			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Quillayute R. System (cont.)	Dickey River (Clallam Co)	402	Chinook						65							65		
			Coho						26	39							65	
			Jackchin						11									11
			Total						102	39								141
	Quillayute River	404	Chinook				11			86	175						272	
			Coho						22	399	666							1,087
			Jackchin						32	75	32							139
			Jackcoho							97	226							323
	Sol Duc River	406	Chinook	86	118	65	11	11	32	259	11						593	
			Coho						11	162	926	22						1,121
			Jackchin		11					75	43							129
			Jackcoho						43	43	280	22						388
Total	Total		86	129	65	11	65	312	1,508	55						2,231		
		Quinault R. System	408	Coho							11						11	
				Total							11							11
		Quinault River	410	Coho							33	11						44
Total									33	11							44	
Van Winkle Creek	Van Winkle Creek	419	Chum									77				77		
			Coho									132	33				165	
			Jackchin								11							11
			Total								11	209	33					253
Willapa Bay	Bear River (Pacific Co)	305	Jackcoho									11				11		
			Total									11					11	
	Naselle River	375	Chinook					76	402	87							565	
			Chum										22					22
			Coho					22	489	597	33							1,141
			Jackchin						43									43
Jackcoho							65	22							87			
Total					98	999	706	55							1,858			

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Willapa Bay (cont.)	Nemah River, North (below Nemah Hatchery), Middle and South	379	Chinook				11	597	1,086	22						1,716
			Chum					11		33	33					77
			Coho					11	22	33						66
			Jackchin					22	43							65
			Jackcoho						76							76
			Total				11	641	1,227	88	33					2,000
	North River	382	Coho							543	76					619
			Jackcoho							11					11	
			Total							554	76				630	
	Smith Creek (Pacific Co)	384	Coho							87	11					98
			Jackcoho							11					11	
			Total							98	11				109	
	Willapa River	424	Chinook					109	391	282	11					793
			Chum						22						22	
			Coho					11	250	402	65				728	
			Jackchin						22	22					44	
Jackcoho									11	11				22		
Total							120	696	717	76				1,609		
Coastal River Totals			Chinook	86	118	65	33	815	3,520	1,689	106				6,432	
			Chum					11	22	345	390			768		
			Coho					88	5,399	10,995	2,894	399		19,775		
			Jackchin		11			54	377	173				615		
			Jackcoho					54	1,082	1,002	130	11		2,279		
			Total	86	129	65	33	1,022	10,400	14,204	3,520	410		29,869		

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2019								2020			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	11			102	2,530	6	11					11	2,671	
			Coho			60	3,529	2,447	183								6,219
			Total	11			162	6,059	2,453	194						11	8,890
	Columbia - below Bonneville	521	Chinook	731				2,732	1,191						11	43	4,708
			Coho					52	419	265							736
			Jackchin		3	9		209	83							11	315
Jackcoho							10	47	13							70	
Total	731	3	9		3,003	1,740	278						11	54	5,829		
Cowlitz R. System	Blue Creek	507	Chinook						10							10	
			Coho								10					10	
			Total							10	10					20	
	Cispus River	555	Coho						10	115	136	115					376
			Jackcoho						31	52	31	10				124	
			Total						41	167	167	125				500	
	Cowlitz R. below Mayfield Dam	561	Chinook					10								31	41
			Coho				31	73	542	2,033	824	177					3,680
			Jackcoho						192	182	64						438
			Total				31	83	734	2,215	888	177				31	4,159
	Cowlitz R. above Cowlitz Falls Dam	559	Chinook							10							10
Coho										240	188					428	
Jackcoho											52	94				146	
Total									10	292	282					584	
Green River (Cowlitz Co.) above Toutle Hatchery	566	Coho							31							31	
		Total							31							31	
Green River (Cowlitz Co.) below Toutle Hatchery	565	Chinook					10			42						52	
		Coho							31	52	10					93	
		Total					10		31	94	10					145	
Olequa Creek (Cowlitz Co.)	569	Coho							10							10	
		Total							10							10	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2019						2020			Total					
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar		
Cowlitz R. System (cont.)	Tilton River	571	Chinook								10					10		
			Coho						146	688	125	21					980	
			Jackchin								10							10
			Jackcoho						31	125	94	10						260
			Total						177	833	219	31						1,260
	Toutle River	573	Jackcoho								10						10	
			Total								10						10	
	Toutle River, North Fork	575	Chinook							73	21						94	
			Coho							104	115	21					240	
Total									177	136	21					334		
Lewis R. System	Lewis River	611	Chinook							138	46					184		
			Coho					11	177	233						421		
			Jackchin							43							43	
			Jackcoho						11	32	22						65	
			Total						22	390	301						713	
	Lewis River, North Fork	615	Chinook				22	11	121	739	165						1,058	
			Coho				44	44	482	603	307						1,480	
			Jackchin						11	32	97	11					151	
			Jackcoho						12	319	172	37					540	
Total				66	78	954	1,611	520						3,229				

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																		
System	Catch Area	CRC Code	Species	2019								2020			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Lower Columbia	Elochoman River below Foster Rd Bridge	583	Chinook					11	11							22		
			Total					11	11							22		
	Kalama River below Modrow Bridge	604	Chinook	22	11		22	248	119							11	433	
			Coho						22	119	54	11					206	
			Jackchin						32				11				43	
	Kalama River between Modrow Bridge and Kalama Falls Hatchery	603	Total	22	11		22	248	173	119	54	11			11	11	682	
			Chinook	22	32						13						67	
			Coho								52						52	
	Washougal River above County Line Access	668	Jackchin	11	11												22	
			Jackcoho								11						11	
			Total	33	43						76						152	
	Washougal River below County Line Access	667	Coho						32								32	
Total								32								32		
Lower Columbia System Total			Chinook	786	43		146	5,552	1,701	882	165				22	85	9,382	
			Coho				135	3,709	4,453	4,794	1,665	324						15,080
			Jackchin	11	14	9		220	190	107	11			11		11		584
			Jackcoho					33	652	639	320	20						1,664
			Total	797	57	9	281	9,514	6,996	6,422	2,161	344		11	22	96		26,710

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Big White Salmon River	Big White Salmon River	508	Chinook							11						11
			Total								11					
Klickitat River	Klickitat River above Fishway 5	608	Chinook					11	268	225	21					525
			Coho							43	11					54
			Jackchin								21					21
			Total					11	268	289	32					600
	Klickitat River below Fishway 5	607	Chinook		21				1,582	995	289	43				2,930
		Coho						67	1,199	611	970	22			2,869	
		Jackchin		75	11			203	139	21		11			460	
		Jackcoho							203	32	161	75			471	
		Total		96	11			1,852	2,536	953	1,174	108			6,730	
Little White Salmon River & Drano Lake	Little White Salmon River & Drano Lake	618	Chinook	526	602		54	526	1,085		11				2,804	
			Coho					32	203	11					246	
			Jackchin		11			89	178						278	
			Jackcoho				11								11	
			Total	526	613		65	647	1,466	11	11					3,339
Mid Columbia	Columbia Bonneville Dam to The Dalles Dam	527	Chinook	21			21	221	2,599						2,862	
			Coho						106	437					543	
			Jackchin				10	52	188						250	
			Jackcoho						21	10					31	
			Total	21			31	273	2,914	447					3,686	
	Columbia The Dalles Dam to John Day Dam	529	Chinook	63	42			136	1,837						2,078	
			Coho						42	21	10				73	
			Jackchin		10				42						52	
			Total	63	52			136	1,921	21	10				2,203	
			Columbia John Day Dam to McNary Dam	531	Chinook		52			42	125					
Jackchin	10							21	10					41		
Jackcoho							10	10						20		
Total	10	52					52	156	10					280		

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Wind R. System	Wind River above Shipherd Falls	677	Chinook		55	22										77
			Total		55	22									77	
	Wind River below Shipherd Falls	680	Chinook	268	446		11	67	268	256						1,316
			Coho						141	177						318
			Jackchin		22			11	44	22					99	
			Total	268	468		11	78	453	455					1,733	
Middle Columbia System Totals			Chinook	878	1,218	22	86	1,003	7,764	1,476	321	43			12,811	
			Coho					32	570	1,888	632	970	22		4,114	
			Jackchin	10	118	11	10	152	676	192	21		11		1,201	
			Jackcoho				11	10	31	213	32	161	75		533	
			Total	888	1,336	33	107	1,197	9,041	3,769	1,006	1,174	108		18,659	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Entiat River	Entiat River	586	Chinook				198	121	44	11					374	
			Total				198	121	44	11					374	
Okanogan R. System	Okanogan River	627	Chinook					11	66						77	
			Total					11	66						77	
Upper Columbia	Columbia McNary Dam to Hwy 395 Bridge	533	Chinook			10		10	10	31					61	
			Jackchin						38	25					63	
			Total			10		10	48	56					124	
	Columbia Hwy 395 Bridge to I-182 Bridge	534	Chinook					31	167	512					710	
			Coho						21	32				53		
			Jackchin					31	42	94				167		
			Total					62	230	638				930		

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Upper Columbia (cont.)	Columbia I-182 Bridge-old Hanford townsite	535	Chinook		21		21	42	1,324	4,056						5,464
			Coho					115	52							167
			Jackchin					21	349	698						1,068
			Jackcoho							21						21
			Total		21		21	63	1,788	4,827						6,720
	Columbia Old Hanford townsite-Priest Rapids Dam	536	Chinook					84	3,471	2,966	53					6,574
			Coho						63	42					105	
Jackchin								366	440					806		
Jackcoho								31	42					73		
Total					84	3,931	3,490	53					7,558			
Columbia Priest Rapids to Wanapum Dam	537	Chinook	10	10			52	324	398					794		
		Coho						21						21		
		Jackchin					10	52	42					104		
Total		10	10		62	397	440						919			
Columbia Wanapum to Rock Island Dam	539	Chinook					10	42	154					206		
		Sockeye							14					14		
		Jackchin						10	21					31		
Total					10	52	189						251			
Columbia Rocky Reach to Wells Dam	543	Chinook	11			1,909	756	43	139					2,858		
		Sockeye				10								10		
		Jackchin				235	45	34	11					325		
Total		11		2,154	801	77	150						3,193			
Columbia Wells to Chief Joseph Dam	545	Chinook	11			1,041	1,240	210	11					2,513		
		Coho					10	10						20		
		Sockeye					10							10		
		Jackchin				157	230		10					397		
		Total		11		1,198	1,490	220	21						2,940	
Wenatchee R. System	Icicle Creek	672	Coho									144		144		
			Total									144			144	
Yakima R. System	Yakima River	690	Chinook						11	33				44		
			Coho						11	33				44		
			Jackchin							11				11		
			Jackcoho							11				11		
			Total						22	88					110	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Upper Columbia System Totals			Chinook	32	31	10	3,169	2,357	5,712	8,311	53					19,675
			Coho					10	241	159	144				554	
			Sockeye				10	10		14					34	
			Jackchin				392	337	891	1,352					2,972	
			Jackcoho						31	74					105	
			Total	32	31	10	3,571	2,714	6,875	9,910	197				23,340	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2019								2020			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Snake R. System	Snake River: Ice Harbor to Lower Monumental Dam	642	Chinook				11				11					22	
			Total				11				11					22	
	Snake River: Lower Monumental to Little Goose Dam	644	Chinook		298							77					375
			Jackchin		50					13	25						88
			Total		348					13	102						463
	Snake River: Little Goose to Lower Granite Dam	646	Chinook					11	11	11							33
			Total					11	11	11							33
	Snake River: Lower Granite to Interstate Bridge	648	Chinook					14	336	14							364
			Jackchin						44								44
			Total					14	380	14							408
	Snake River: upstream of Interstate Bridge	650	Chinook						121	33							154
			Jackchin						11	33							44
Total								132	66							198	
Snake River System Totals			Chinook		298		11	25	468	146						948	
			Jackchin		50				68	58						176	
			Total		348		11	25	536	204						1,124	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019						2020			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar
California Cr. System	California Creek	710	Coho						11							11
			Total						11							11
Chambers Cr. System	Chambers Creek	714	Chinook					11								11
			Total					11								11
Duckabush R. System	Duckabush River	736	Coho							11						11
			Total							11						11
Dungeness R. System	Dungeness River	738	Coho							471	168					639
			Total							471	168					639
Green-Duwamish R. System	Green - Duwamish River	746	Chinook				11	152	195	33	22	11				424
			Chum					11		271	304	54				640
			Pink				11	5,214	3,968	2,537						11,730
			Coho					120	1,048	1,714	142	33				3,057
			Sockeye							11						11
			Jackchin					33		22						55
			Jackcoho					11	564	336						911
Total				22	5,541	5,775	4,924	468	98					16,828		
Kennedy Cr. System	Kennedy Creek	754	Chum							11	22					33
			Total							11	22					33
Lake Washington System	Lake Sammamish	764	Coho					44	11		22					77
			Total					44	11		22					77
	Lake Washington	762	Coho						517							517
			Jackcoho						33							33
			Total						550							550
Minter Cr. System	Minter Creek	778	Chinook						43							43
			Chum								65	860	11			936
			Coho						140	366	75					581
			Jackchin						11	75						86
			Jackcoho							32	86	22				140
			Total						226	592	957	11				1,786
Nisqually R. System	Nisqually River	786	Chinook				32	779	1,140	76						2,027
			Pink					445	1,371	127						1,943
			Coho						413	316	74					803
			Jackchin				11	54	218	22	11					316
			Jackcoho					11	213	90	22					336
			Total				43	1,289	3,355	631	107					

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2019						2020			Total				
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar	
Nooksack Samish R. System	Dakota Creek (Whatcom Co)	724	Coho								124					124	
			Total									124					124
	Nooksack River	788	Chinook							21	10						31
			Chum									10	145				155
			Pink					10	21								31
			Coho					53	223	1,554	362	11					2,203
			Jackcoho								41	10					51
	Total		63	265	1,615	517	11								2,471		
	Samish River	816	Chinook					1,323	2,955	21						4,299	
			Coho					84	117							201	
			Jackchin					165	165							330	
			Jackcoho					21	31	10						62	
			Total		1,593	3,268	31									4,892	
	Whatcom Creek	884	Chinook					31	21							52	
			Chum								72	270				342	
Coho									10						10		
Jackchin							10								10		
Total				41	31	72	270								414		
Puyallup R. System	Carbon River	802	Chinook					204	784	45					1,033		
			Pink					44	1,590	240					1,874		
			Coho						433	237					670		
			Jackchin						85	21					106		
			Jackcoho						154	165					319		
			Total		248	3,046	708								4,002		
	Puyallup River	804	Chinook					1,060	439						1,499		
			Pink					20,924	8,987	225					30,136		
			Coho					1,632	3,298	383	44				5,357		
			Jackchin					227	292	11					530		
Total							1,349	1,727	162	44						3,238	
																25,192	14,743
Quilcene R. System	Quilcene River	812	Coho					1,180	309	44					1,533		
			Jackcoho					198	11						209		
			Total		1,378	320	44								1,742		

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																	
System	Catch Area	CRC Code	Species	2019								2020			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Skagit R. System	Baker Lake	825	Sockeye				2,512	157	73							2,742	
			Total				2,512	157	73							2,742	
	Cascade River	826	Chinook		83	146	10										239
			Coho					10	772	1,345	42						2,169
			Jackchin			10											10
			Jackcoho								52						52
	Total		83	156	10	10	772	1,397	42						2,470		
	Skagit River	830	Chinook			10	10										20
			Pink					21	10								31
			Coho					63	2,513	2,159	261						4,996
Sockeye					73	209										282	
Jackchin					10											10	
Jackcoho									21	104	83					208	
Total			93	219	105	2,627	2,242	261						5,547			
Snohomish R. System	Skykomish River	844	Chinook		22	87	98									207	
			Coho					11	217	54						282	
			Jackchin			11	87										98
			Jackcoho							33							33
	Total		22	98	185	11	250	54							620		
	Snohomish River	850	Pink						317	680							997
			Coho							769	89						858
			Jackcoho								11						11
			Total						317	1,460	89						1,866
	Snoqualmie River	852	Pink						11								11
			Coho							54	22						76
			Total						11	54	22						87
Stillaguamish River	872	Coho						11	200	710	11					932	
		Jackcoho								11						11	
		Total						11	211	710	11					943	
Wallace River	860	Coho							130	217	54					401	
		Total							130	217	54					401	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Puget Sound System Totals			Chinook		105	243	161	3,560	5,598	185	22	11				9,885
			Chum				11		429	1,601	65				2,106	
			Pink			11	26,986	16,627	3,129						46,753	
			Coho				3,208	11,185	9,816	1,255	44				25,508	
			Sockeye		73	2,721	157	73	11						3,035	
			Jackchin		31	98	489	771	151	11					1,551	
			Jackcoho				1,611	2,924	1,025	54					5,614	
			Total		105	347	2,991	36,022	37,178	14,746	2,943	120			94,452	

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

UNKNOWN RIVER SYSTEMS																
System	Catch Area	CRC Code	Species	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Unkown Area Totals			Chinook	51	51	20	91	116	192	142				20	10	693
			Chum							45	32				77	
			Pink				22	257	65	87					431	
			Coho		20	70	30	230	201	150	88	10			799	
			Sockeye				28								28	
			Jackchin		9			19							28	
			Jackcoho		9				9		9				27	
			Total	51	89	90	171	622	467	424	129	10		20	10	2,083

Table 23. 2019-2020 Freshwater Salmon Sport Catch by Area and Month (continued)

STATEWIDE TOTALS																	
System	Catch Area	CRC Code	Species	2019								2020			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Statewide Totals			Chinook	1,833	1,864	360	3,697	13,428	24,955	12,831	667	54			42	95	59,826
			Chum					22	22	819	2,023	65			2,951		
			Pink				33	27,243	16,692	3,216					47,184		
			Coho		20	70	165	7,277	22,049	27,802	6,678	1,747	22		65,830		
			Sockeye			73	2,759	167	73	25					3,097		
			Jackchin	21	202	51	500	1,271	2,973	2,033	43		22		11	7,127	
			Jackcoho		9		11	1,708	4,729	2,953	545	192	75		10,222		
			Total	1,854	2,095	554	7,165	51,116	71,493	49,679	9,956	2,058	119	42	106	196,237	

Table 24. 2019-2020 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	1,088	19,983	5.4	409	64	473	0.43
Asotin	1,434	22,582	6.4	215	65	280	0.2
Benton	13,262	204,390	6.5	6,325	2,120	8,445	0.64
Chelan	4,496	77,200	5.8	2,579	1,135	3,714	0.83
Clallam	9,546	77,331	12.3	2,538	15,556	18,094	1.9
Clark	33,760	488,241	6.9	10,726	9,199	19,925	0.59
Columbia	395	3,985	9.9	153	21	174	0.44
Cowlitz	16,041	110,593	14.5	5,434	3,158	8,592	0.54
Douglas	2,145	43,429	4.9	1,341	746	2,087	0.97
Ferry	293	7,627	3.8	82	522	604	2.06
Franklin	5,933	95,222	6.2	3,152	430	3,582	0.6
Garfield	258	2,225	11.6				
Grant	3,885	97,733	4	2,180	1,628	3,808	0.98
Grays Harbor	10,335	75,061	13.8	6,919	4,640	11,559	1.12
Island	11,396	85,141	13.4	1,034	12,815	13,849	1.22
Jefferson	3,422	32,221	10.6	757	3,666	4,423	1.29
King	86,242	2,252,782	3.8	36,980	43,335	80,315	0.93
Kitsap	21,070	271,473	7.8	3,470	16,221	19,691	0.93
Kittitas	2,780	47,935	5.8	676	913	1,589	0.57
Klickitat	2,574	22,425	11.5	3,224	64	3,288	1.28
Lewis	9,144	80,707	11.3	3,613	3,024	6,637	0.73
Lincoln	685	10,939	6.3	164	193	357	0.52
Mason	6,235	66,768	9.3	1,873	4,034	5,907	0.95
Okanogan	1,942	42,243	4.6	1,228	371	1,599	0.82
Pacific	4,036	22,471	18	2,794	8,154	10,948	2.71
Pend Oreille	436	13,724	3.2	112	329	441	1.01
Pierce	57,807	904,980	6.4	38,515	21,397	59,912	1.04
San Juan	2,138	17,582	12.2	103	1,819	1,922	0.9
Skagit	15,218	129,205	11.8	6,684	5,863	12,547	0.82
Skamania	1,037	12,083	8.6	1,372	139	1,511	1.46
Snohomish	55,218	822,083	6.7	10,471	32,690	43,161	0.78
Spokane	12,045	522,798	2.3	3,491	2,501	5,992	0.5
Stevens	2,889	45,723	6.3	624	291	915	0.32
Thurston	20,382	290,536	7	9,283	8,784	18,067	0.89
Wahkiakum	922	4,488	20.5	256	105	361	0.39
Walla Walla	3,464	60,760	5.7	1,136	75	1,211	0.35
Whatcom	16,926	229,247	7.4	3,849	3,338	7,187	0.42
Whitman	1,255	50,104	2.5	236	33	269	0.21
Yakima	12,183	250,873	4.9	6,366	2,563	8,929	0.73
Unknown WA	1,112			277	324	601	0.54
Washington Total	455,429	7,614,893	6	180,641	212,325	392,966	0.86
Other State Total	41,613			15,506	18,350	33,856	0.81
Canada	1,514			41	531	572	0.38
Other	574			51	29	80	0.14
Grand Total	499,130			196,239	231,235	427,474	0.86

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2019.
 Source: Population Division, U.S. Census Bureau. Release Date: March 2020

Table 25. 2019-2020 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	403,223	403,223	80.8%	80.8%	0	0	0.0%	0.0%
1	27,657	430,880	5.5%	86.3%	27,657	27,657	6.5%	6.5%
2	24,370	455,250	4.9%	91.2%	48,740	76,397	11.4%	17.9%
3	8,921	464,171	1.8%	93.0%	26,763	103,160	6.3%	24.1%
4	7,789	471,960	1.6%	94.6%	31,156	134,316	7.3%	31.4%
5	4,622	476,582	0.9%	95.5%	23,110	157,426	5.4%	36.8%
6	3,701	480,283	0.7%	96.2%	22,206	179,632	5.2%	42.0%
7	2,863	483,146	0.6%	96.8%	20,041	199,673	4.7%	46.7%
8	2,357	485,503	0.5%	97.3%	18,856	218,529	4.4%	51.1%
9	1,832	487,335	0.4%	97.6%	16,488	235,017	3.9%	55.0%
10	1,685	489,020	0.3%	98.0%	16,850	251,867	3.9%	58.9%
11	1,105	490,125	0.2%	98.2%	12,155	264,022	2.8%	61.8%
12	1,022	491,147	0.2%	98.4%	12,264	276,286	2.9%	64.6%
13	976	492,123	0.2%	98.6%	12,688	288,974	3.0%	67.6%
14	994	493,117	0.2%	98.8%	13,916	302,890	3.3%	70.9%
15	635	493,752	0.1%	98.9%	9,525	312,415	2.2%	73.1%
16	635	494,387	0.1%	99.1%	10,160	322,575	2.4%	75.5%
17	460	494,847	0.1%	99.1%	7,820	330,395	1.8%	77.3%
18	589	495,436	0.1%	99.3%	10,602	340,997	2.5%	79.8%
19	414	495,850	0.1%	99.3%	7,866	348,863	1.8%	81.6%
20	451	496,301	0.1%	99.4%	9,020	357,883	2.1%	83.7%
21	350	496,651	0.1%	99.5%	7,350	365,233	1.7%	85.5%
22	304	496,955	0.1%	99.6%	6,688	371,921	1.6%	87.0%
23	221	497,176	0.0%	99.6%	5,083	377,004	1.2%	88.2%
24	203	497,379	0.0%	99.6%	4,872	381,876	1.1%	89.3%
25	276	497,655	0.1%	99.7%	6,900	388,776	1.6%	90.9%
26	1,326	498,981	0.3%	100%	34,476	423,252	8.1%	99.0%
27	110	499,091	0.0%	100%	2,970	426,222	0.7%	99.7%
28*	28	499,119	0.0%	100%	784	427,006	0.2%	99.9%
30 or more	9	499,128	0.0%	100%	468	427,474	0.1%	100%
Total	499,128		100.0%		427,474		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.

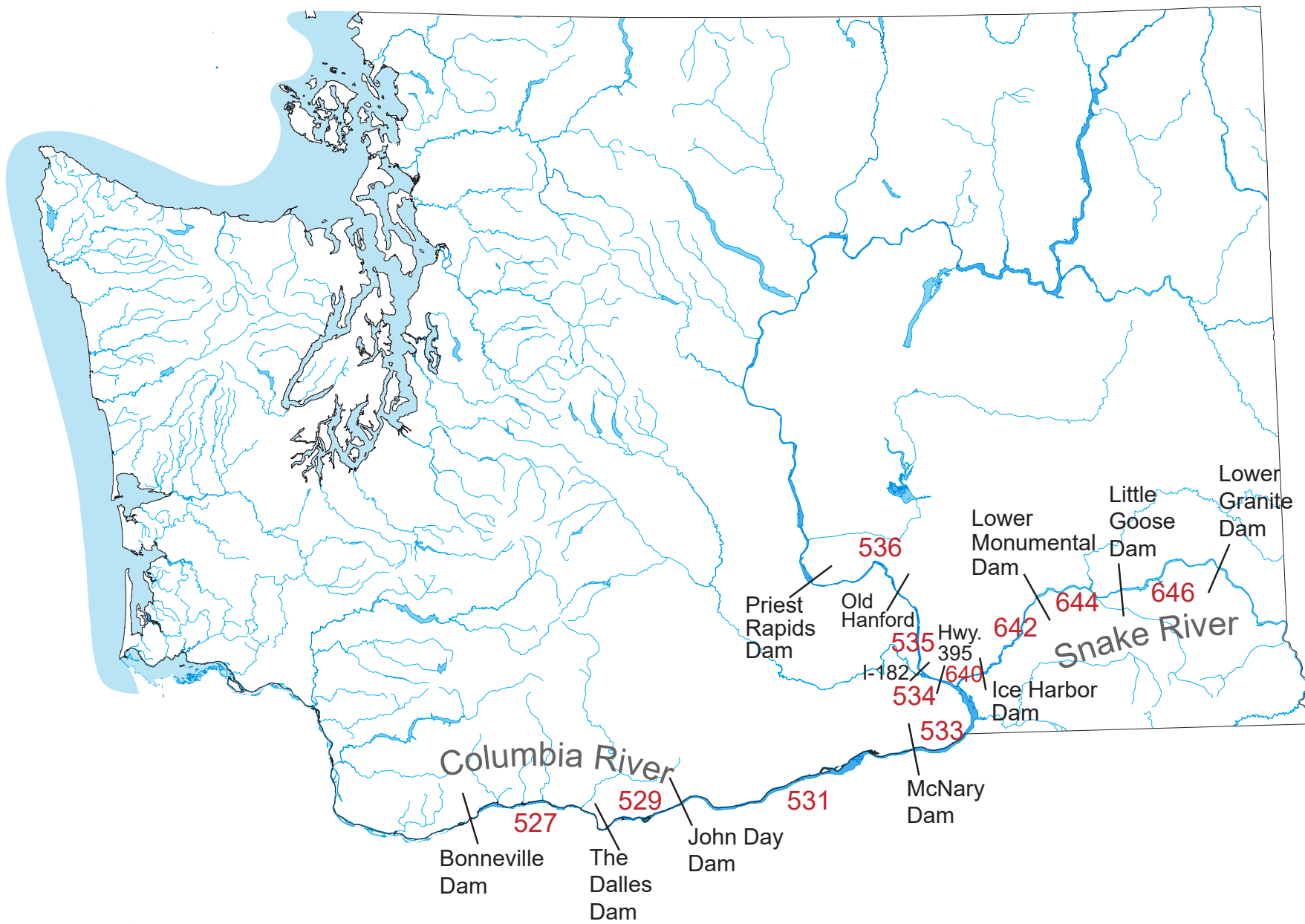
Table 26. 2019-2020 Sport Salmon Inventory of Catch Record Cards Received

Response Type	With Catch	No catch	Total Reports	Number of Salmon	Catch per Card
Prior to reminder	3,495	4,245	7,740	16,466	2.13
After 1st reminder postcard	5,464	16,708	22,172	24,272	1.09
After 2nd reminder postcard	1,456	7,926	9,382	5,693	0.61
Total	10,415	28,879	39,294	46,431	1.18

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. 2019-2020 Sport Sturgeon Catch, by Area and Month

COLUMBIA RIVER SYSTEMS															
Catch Area	Species	2019										2020			Total
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Columbia R 01: Buoy 10 to Tongue Pt.-Rocky Pt.	White		139	402											541
Columbia R 02: Tongue Pt. Rocky Pt. to Longview Br.	White		352	511			21	2							886
Columbia R 03: Longview Br. to I-5 Br.	White						261	16							277
Columbia R 04: I-5 Br. to Bonneville Dam	White						34	2							36
Columbia R 05: Bonneville to The Dalles Dam	White	19										46	33		98
Columbia R 06: The Dalles to John Day Dam	White											23	3		26
Columbia R 07: John Day to McNary Dam	White											14	8		22
Columbia R 08: McNary Dam - Hwy 395 Bridge in Pasco	White	13		71	28									13	126
Columbia R 09: I-182 Bridge to old Hanford townsite	White			13	16										29
Columbia R 09: Old Hanford townsite to Priest Rapids Dam	White	15	16		15										45
Columbia R 16: above Grand Coulee Dam (Lake Roosevelt)	White			155	141	113	74								483
Cowlitz R. below Mayfield Dam	White						28								28
Snake R 1: below Ice Harbor Dam	White			13	13										26
Total	White	47	507	1,165	213	113	418	20				83	44	13	2,623
UNKNOWN AREA															
Unknown Area Totals	White		13				29								42
STATEWIDE TOTALS															
Statewide Totals	White	47	520	1,165	213	113	447	20				83	44	13	2,665

Table 28. 2019-2020 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	1,088	19,983	5.4	13	0.01
Asotin	1,434	22,582	6.4		
Benton	13,262	204,390	6.5	125	0.01
Chelan	4,496	77,200	5.8	13	0.00
Clallam	9,546	77,331	12.3		
Clark	33,760	488,241	6.9	525	0.02
Columbia	395	3,985	9.9		
Cowlitz	16,041	110,593	14.5	462	0.03
Douglas	2,145	43,429	4.9		
Ferry	293	7,627	3.8	13	0.04
Franklin	5,933	95,222	6.2	25	0.00
Garfield	258	2,225	11.6		
Grant	3,885	97,733	4	25	0.01
Grays Harbor	10,335	75,061	13.8	50	0.00
Island	11,396	85,141	13.4		
Jefferson	3,422	32,221	10.6		
King	86,242	2,252,782	3.8	38	0.00
Kitsap	21,070	271,473	7.8	13	0.00
Kittitas	2,780	47,935	5.8	13	0.00
Klickitat	2,574	22,425	11.5	38	0.01
Lewis	9,144	80,707	11.3	149	0.02
Lincoln	685	10,939	6.3		
Mason	6,235	66,768	9.3		
Okanogan	1,942	42,243	4.6		
Pacific	4,036	22,471	18	237	0.06
Pend Oreille	436	13,724	3.2	25	0.06
Pierce	57,807	904,980	6.4	137	0.00
San Juan	2,138	17,582	12.2		
Skagit	15,218	129,205	11.8	13	0.00
Skamania	1,037	12,083	8.6	38	0.04
Snohomish	55,218	822,083	6.7	13	0.00
Spokane	12,045	522,798	2.3	113	0.01
Stevens	2,889	45,723	6.3	225	0.08
Thurston	20,382	290,536	7	88	0.00
Wahkiakum	922	4,488	20.5	75	0.08
Walla Walla	3,464	60,760	5.7	13	0.00
Whatcom	16,926	229,247	7.4		
Whitman	1,255	50,104	2.5		
Yakima	12,183	250,873	4.9	50	0.00
Unknown WA	1,112				
Washington Total	455,429	7,614,893	6	2,529	0.01
Other State Total	41,613			137	0.00
Canada	1,514				
Other	574				
Grand Total	499,130			2,666	0.01

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, 2019.

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

Table 29. 2019-2020 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	496,713	496,713	99.5%	99.5%	0	0	0.0%	0.0%
1	2,165	498,878	0.4%	99.9%	2,165	2,165	81.2%	81.2%
2	250	499,128	0.1%	100.0%	500	2,665	18.8%	100.0%
Total	499,128		100.0%		2,665		100.0%	

Table 30. 2019-2020 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	66	11,277	11,343	74	0.007
After 1st reminder postcard	101	21,695	21,796	110	0.005
After 2nd reminder postcard	26	6,137	6,163	29	0.005
Total	193	39,109	39,302	213	0.005

Steelhead



Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month

COASTAL RIVERS AND MARINE CATCH AREAS																	
System	River	Code	Run	2019								2020			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Chehalis R. System	Chehalis R. above Black R.	315	W											25	165		190
	Chehalis R. below Black R.	317	W									5	105	184		294	
	Chehalis River, So. Fork	319	W									5	15			20	
	Satsop River	329	S		6		6				13						25
														50	140		190
	Satsop River, West Fork	331	S			13											13
															60		60
	Skookumchuck River	333	W	70									10	165	369		614
Wynoochee River	337	S		19	52	182	52	19	13							337	
											5	105	339	299		748	
Chehalis R. System Totals		S		25	65	188	52	19	26							375	
				70							5	125	699	1,217		2,116	
Hoh R. System	Hoh River above Oxbow Launch	348	S			7										7	
			W											12	23	35	
	Hoh River below Oxbow Launch	350	S					22	7							29	
				W									23	4	12	23	62
Hoh R. System Totals		S			7	22	7								36		
			W									23	4	24	46	97	
Humptulips R. System	Humptulips River	358	S			67	54	13								134	
			W									242	242	47	18	549	
	Humptulips River, E. Fork	361	W											12		12	
	Humptulips River, W. Fork	362	W											12		12	
	Stevens Creek	364	W									6	12			18	
Humptulips R. System Totals		S			67	54	13								134		
			W									248	266	59	18	591	
Marine Water	Area 1: Col R - Ledbetter	1	S					15								15	
Naselle R. System	Naselle River	375	W									4	31	4		39	
	Salmon Creek (Pacific Co.)	377	W											8		8	
	Naselle R. System Totals		W									4	31	12		47	
Nemah R. System	Nemah River, North (above Nemah Hatchery)	378	W									4				4	
North R. System	North River	382	W									12	27	23		62	

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Queets R. System	Clearwater River	392	S									7			7	
			W									8			8	
	Queets River	394	S									14			14	
			W									56	56	52	4	168
Salmon River (Jefferson Co.)	396	S									7			7		
		W									25	33	45		103	
Queets R. System Totals			S									28			28	
			W									81	89	105	4	279
Quillayute R. System	Bogachiel River	398	S	2											2	
			W									15	293	113	26	5
	Calawah River	400	S	13 4 6											23	
			W									10	98	31	15	5
	Quillayute River	404	S	2											2	
Sol Duc River	406	W									15		31	21	67	
Quillayute R. System Totals			S	17 4 6											27	
			W									25	406	144	72	31
Quinault R. System	Cook Creek	408	W												4	4
	Quinault R, Upper (above L. Quinault)	412	W												12	12
	Quinault R. System Totals		W												12	4
Willapa R. System	Willapa River	424	S									7			7	
			W									19			19	
Coastal Rivers/Streams and Marine Carch Area Totals			S									61			622	
			W	70								30 903			3,909	

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																		
System	River	Code	Run	2019								2020			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Abernathy Cr. System	Abernathy Creek	501	W													3	3	
Coal Cr. System	Coal Creek (Cowlitz Co.)	517	W													6	6	
Columbia R. Mainstem	Columbia R 01: Buoy 10 to Tongue Pt.-Rocky Pt.	519	S W		32	136	98										4	266 4
	Columbia R 02: Tongue Pt. Rocky Pt. to Longview Br.	521	S W		57	717	690						13	4	61	4		1,464 82
	Columbia R 03: Longview Br. to I-5 Br.	523	S W		29	57	212						4					298 4
	Columbia R 04: I-5 Br. to Bonneville Dam	525	S W	4		32	67											103 4
	Columbia R 05: Bonneville to The Dalles Dam	527	S			6	6											12
	Columbia R 06: The Dalles to John Day Dam	529	S				6			6				18				30
	Columbia R 07: John Day to McNary Dam	531	S			6	6	6						36	12	12		78
	Columbia R 08: McNary Dam - Hwy 395 Bridge @ Pasco	533	S		6					18			6		12			42
	Columbia R 09: Hwy 395 Bridge to I-182 Bridge	534	S							12								12
	Columbia R 09: I-182 Bridge to old Hanford townsite	535	S		30					6	6							42
	Columbia R. Mainstem Totals			S W	40	124	954	1,085		42	6		6	54	24	12	17	2,347 94
	Cowlitz R. System	Blue Creek (Lewis Co.)	507	S W		2		2	6			4						14 86
Coweeman River		557	W									20	40		5		65	
Cowlitz R. above Cowlitz Falls Dam		559	W						5								5	
Cowlitz R. below Mayfield Dam		561	S W		195	481	1,859	1,197	400	386							4,518 5,295	
Cowlitz R. between Mayfield & Cowlitz Falls Dams		563	W		920							49	59	198	1,444	2,625		5 10 15

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Cowlitz R. System (cont.)	Olequa Creek (Cowlitz Co.)	569	S	5											5	
	Tilton River	571	W									15			15	
	Toutle River	573	S	19 24 5 5											53	
			W					15							15	
	Toutle River, No. Fork	575	S	5											5	
	Toutle River, So. Fork	577	S	5 10		5 38		33 19								110
W									35						35	
Cowlitz R. System Totals		S	200 510		1,898 1,240		438 405								4,691	
		W	920				5		84 94		238 1,449 2,655			5,445		
Elochoman R. System	Elochoman River above Foster Rd Bridge	584	S	115		18 18		53								204
		584	W							232			163 31 6			432
	Elochoman River below Foster Rd Bridge	583	W							13			6			19
	Elochoman R. System Totals		S	115		18 18		53								204
W									245			169 31 6			451	
Grande Ronde R. System	Grande Ronde River	592	S					6 138		54 6		24 96 203			527	
Grays R. System	Grays River above Barr Rd Bridge	595	W									3			3	
	Grays River, West Fork	596	S									2			2	
	Grays R. System Totals		S									2			2	
W											3			3		
Kalama R. System	Kalama River above Kalama Falls Hatchery	602	S									5			5	
	Kalama River below Modrow Bridge	604	S	5 32		42 28									107	
			W					18				6 91 66			181	
	Kalama River between Modrow Bridge and Kalama Falls Hatchery	603	S	14 32		23 46		42 18								175
Kalama R. System Totals		S	19 64		65 74		42 18		5						287	
		W							18 36			24 218 139			435	

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Klickitat R. System	Klickitat River above Fishway 5	608	S		4	91	72	46	235	80	34					562
	Klickitat River below Fishway 5	607	S	4	19		4		8	11	15					61
	Klickitat R. System Totals		S	4	23	91	76	46	243	91	49					623
Lewis R. System	Cedar Creek (Clark Co.)	609	S			9										9
	Lewis River (below E. Fork)	611	S			13	66	61	18							158
	Lewis River, E. Fork	613	S	W					4							4
											15	7			22	
	Lewis River, No. Fork	615	S	W	4	13	272	224	22							535
Lewis R. System Totals		S	W	4	35	338	289	40			15			7	15	37
											15	15	7	7	15	59
Little White Salmon R. Sys.	Little White Salmon River & Drano Lake	618	S			433										433
Mill Cr. System (Cowlitz)	Mill Creek (Cowlitz Co.)	624	S			4	10									14
Rock Cr. System (Skamania)	Rock Creek (Skamania Co.)	632	W											3		3
Salmon Cr. System (Clark)	Salmon Creek (Clark Co.)	635	W										3		10	13
Snake R. Mainstem	Snake R 1: below Ice Harbor Dam	640	S						5							5
	Snake R 2: Ice Harbor to Lower Monumental Dam	642	S						68	5						73
	Snake R 3: Lower Monumental to Little Goose Dam	644	S						10							10
	Snake R 4: Little Goose to Lower Granite Dam	646	S								5				5	10
	Snake R 5: Lower Granite Dam to Interstate Bridge, Clarkston	648	S					15	19		5			5		44
	Snake R 6: upstream of the Interstate Bridge, Clarkston	650	S						10	34	199	151	49	39	5	487
	Snake R. Mainstem Totals		S						25	136	209	156	49	44	10	629

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Tucannon R. System	Tucannon River	653	S						4	8	6	2				20
Walla Walla R. System	Touchet River	657	S												8	8
	Walla Walla River	659	S						2	8	6	8	6			30
	Walla Walla R. System Totals		S						2	8	6	8	6		8	38
Washougal R. System	Washougal River above County Line Access	668	W										10	10		30
	Washougal River below County Line Access	667	S W		6	20	20							51	32	46 105
	Washougal R. System Totals		S W		6	20	20							32	61	42 135
White Salmon R. System	Big White Salmon River	508	S				4	4	8	2						18
			W											6	3	
Wind R. System	Wind River below Shipherd Falls	680	S				2		2	2	2					8
Columbia River and Tributary System Totals (All non-Boldt)			S	44	493	1,674	3,927	1,712	983	944	273	76	128	130	223	10,607
			W	993					5		117	442	509	1,821	2,855	6,742

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Marine Water *	Area 9: Admiralty Inlet	9	S				5									5
			W											9	9	9
Dungeness R. System *	Dungeness River	738	S							5						5
			W									4				
Green-Duwamish R. Sys *	Green (Duwamish River) (King Co.)	746	S		6	36	36	36	107	119						340
Skagit R. System *	Cascade River	826	W								4	9				13
	Skagit River	830	W	4								9				13
	Skagit R. System Totals		W	4							4	18				26

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Snohomish R. System *	Skykomish River	844	S		51	90	56	11	7	5						220
			W											3		3
	Snohomish River	850	S		5				2							7
			W										3			3
	Snoqualmie River	852	W										3			3
	Tokul Creek	856	W											3		3
Wallace River		860	S						2	2					4	
			W									3			3	
Snohomish R. System Totals			S		56	90	56	11	11	7					231	
			W									3	6	6	15	
Stillaguamish R. System *	Stillaguamish R, No. Fork	872	S						10	20					30	
			W									4	4		8	
Puget Sound, Strait of Juan de Fuca River Systems and Marine Catch Area Totals (All are Boldt Case Areas)			S		62	126	97	47	128	151					611	
			W	4									15	28	9	15

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

UNKNOWN AREAS																	
System	River	Code	Run	2019								2020			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Unknown Area Totals			S				12	48	36						96		
			W									21	11		21	21	74

Table 31. 2019-2020 Steelhead Sport Catch, by Area and Month (continued)

STATEWIDE TOTALS																
System	River	Code	Run	2019								2020			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Statewide Totals			S	44	580	1,865	4,315	1,954	1,192	1,156	273	76	128	130	223	11,936
			W	1,067					5		183	1,384	1,778	3,400	2,988	10,805
			Grand Total	1,111	580	1865	4315	1954	1197	1156	456	1460	1,906	3530	3,211	22,741

Table 32. 2019-2020 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	1,088	19,983	5.4		
Asotin	1,434	22,582	6.4	89	0.06
Benton	13,262	204,390	6.5	367	0.03
Chelan	4,496	77,200	5.8	13	0.00
Clallam	9,546	77,331	12.3	291	0.03
Clark	33,760	488,241	6.9	1,594	0.05
Columbia	395	3,985	9.9		
Cowlitz	16,041	110,593	14.5	4,439	0.28
Douglas	2,145	43,429	4.9	26	0.01
Ferry	293	7,627	3.8		
Franklin	5,933	95,222	6.2	26	0.00
Garfield	258	2,225	11.6		
Grant	3,885	97,733	4.0	38	0.01
Grays Harbor	10,335	75,061	13.8	961	0.09
Island	11,396	85,141	13.4	13	0.00
Jefferson	3,422	32,221	10.6	26	0.01
King	86,242	2,252,782	3.8	2,074	0.02
Kitsap	21,070	271,473	7.8	304	0.01
Kittitas	2,780	47,935	5.8	13	0.00
Klickitat	2,574	22,425	11.5	329	0.13
Lewis	9,144	80,707	11.3	1,341	0.15
Lincoln	685	10,939	6.3	26	0.04
Mason	6,235	66,768	9.3	645	0.10
Okanogan	1,942	42,243	4.6		
Pacific	4,036	22,471	18.0	50	0.01
Pend Oreille	436	13,724	3.2		
Pierce	57,807	904,980	6.4	3,655	0.06
San Juan	2,138	17,582	12.2	38	0.02
Skagit	15,218	129,205	11.8	76	0.00
Skamania	1,037	12,083	8.6	38	0.04
Snohomish	55,218	822,083	6.7	746	0.01
Spokane	12,045	522,798	2.3	189	0.02
Stevens	2,889	45,723	6.3	26	0.01
Thurston	20,382	290,536	7.0	1,239	0.06
Wahkiakum	922	4,488	20.5	696	0.75
Walla Walla	3,464	60,760	5.7	38	0.01
Whatcom	16,926	229,247	7.4	202	0.01
Whitman	1,255	50,104	2.5	50	0.04
Yakima	12,183	250,873	4.9	696	0.06
Unknown WA	1,112			13	0.01
Washington Total	455,429	7,614,893	6.0	20,367	0.04
Other State Total	41,613			2,377	0.06
Canada	1,514				
Other	574				
Grand Total	499,130			22,744	0.05

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2019.
 Source: Population Division, U.S. Census Bureau. Release Date: March 2020

Table 33. 2019-2020 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	490,438	490,438	98.3%	98.3%	0	0	0.0%	0.0%
1	4,426	494,864	0.9%	99.1%	4,426	4,426	19.5%	19.5%
2	1,929	496,793	0.4%	99.5%	3,858	8,284	17.0%	36.4%
3	794	497,587	0.2%	99.7%	2,382	10,666	10.5%	46.9%
4	429	498,016	0.1%	99.8%	1,716	12,382	7.5%	54.4%
5	252	498,268	0.1%	99.8%	1,260	13,642	5.5%	60.0%
6	139	498,407	0.0%	99.9%	834	14,476	3.7%	63.7%
7	202	498,609	0.0%	99.9%	1,414	15,890	6.2%	69.9%
8	88	498,697	0.0%	99.9%	704	16,594	3.1%	73.0%
9	76	498,773	0.0%	99.9%	684	17,278	3.0%	76.0%
10	38	498,811	0.0%	99.9%	380	17,658	1.7%	77.6%
11	50	498,861	0.0%	99.9%	550	18,208	2.4%	80.1%
12	50	498,911	0.0%	100.0%	600	18,808	2.6%	82.7%
13	76	498,987	0.0%	100.0%	988	19,796	4.3%	87.0%
14		498,987	0.0%	100.0%		19,796	0.0%	87.0%
15	13	499,000	0.0%	100.0%	195	19,991	0.9%	87.9%
16		499,000	0.0%	100.0%		19,991	0.0%	87.9%
17	13	499,013	0.0%	100.0%	221	20,212	1.0%	88.9%
18	13	499,026	0.0%	100.0%	234	20,446	1.0%	89.9%
19	13	499,039	0.0%	100.0%	247	20,693	1.1%	91.0%
20	25	499,064	0.0%	100.0%	500	21,193	2.2%	93.2%
21	13	499,077	0.0%	100.0%	273	21,466	1.2%	94.4%
24	13	499,090	0.0%	100.0%	312	21,778	1.4%	95.8%
25	25	499,115	0.0%	100.0%	625	22,403	2.7%	98.5%
26	13	499,128	0.0%	100.0%	338	22,741	1.5%	100.0%
Total	499,128		100.0%		22,741		100.0%	

Table 34. 2019-2020 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	209	7,740	7,949	590	0.07
After 1st reminder postcard	382	21,463	21,845	941	0.04
After 2nd reminder postcard	102	9,406	9,508	273	0.03
Total	693	38,609	39,302	1,804	0.05

Marine Fish



Table 35. 2019 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	10,550	116,482	30,151	39,649	17,058	213,890
Blue Rockfish	36	38	228	757	199	1,258
Yellowtail Rockfish	6,243	32,112	1,295	1,479	95	41,224
China Rockfish	5	46	316	1,722	44	2,133
Quillback Rockfish	143	578	327	970	98	2,116
Copper Rockfish	53	73	166	1,820	252	2,364
Canary Rockfish	418	3,887	1,738	3,181	122	9,346
Yelloweye Rockfish	8		12	41	11	72
Tiger Rockfish	29	25	122	243	4	423
Vermillion Rockfish	5	17	152	1,088	23	1,285
Other Rockfish	2			116	2	120
Boccaccio	20	38	281	240	4	583
Lingcod	1,532	26,441	9,491	10,565	3,087	51,116
Kelp Greenling	296	130	309	1,314	820	2,869
Pacific Cod			17	35	13	65
Other Cod				13	2	7
Cabezon	325	437	636	2,206	730	4,334
Flatfish	98	5,590	29	488	132	6,337
Surf Perch	20	9		1	12	42
Albacore Tuna	55,124	31,700	755	38		87,617
Sharks and Skates	22	12	6			40
Miscellaneous	1,840	1,426	199	2,317	58	5,840

Table 36. Coastal Washington Recreational Pacific Halibut Catch 2000-2019

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

Table 37. 2019 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	1,352	704	27			4						2,087
Starry Flounder	5	1,535	280	53	8	31	18	13		70		2,012
Soles	19	84	8	80	582	4,834	622	1,829		188		8,245
Sanddabs	4	31	50	9	646	5,561	11,070	6,668		149		24,188
Misc. Flatfish	9	195	196	152	3,987	5,626	16,596	6,634	18	2,562		35,974
Sablefish	9											9
Lingcod	300	108	1,700	88	4	327	127	148		28		2,830
Greenlings	282	95	571	104		115	1	1				1,169
Copper Rockfish	42					13		9				64
Quillback Rockfish	5							1				6
Brown Rockfish												0
Black Rockfish	2,564	1										2,565
Blue Rockfish	85											85
Yellowtail Rockfish	2											2
Vermillion Rockfish												0
Yelloweye Rockfish	2											2
Canary Rockfish	2											2
China Rockfish												0
Greenstriped Rockfish								1				1
Other Rockfishes	8											8
Pacific Cod	14		8									22
Walleye Pollock												0
Pacific Tomcod	1											1
Pacific Hake												0
Other Cod	2											2
Cabezon	153	55	263	5		132	4		592			1,203
Other Sculpins	2	1			3	227	59	88				380
Perches					642	219	22	19				903
Spiny Dogfish	1	17	30	81	23	152	123	1,796		49		2,272
Ratfish												0
Skates		1				207						208
Total	4,862	2,828	3,132	571	5,896	17,448	28,642	17,207	610	3,046		84,241



Shellfish



Table 38. 2019-2020 Seasonal Summary of Sport Razor Clam Digging on Ocean Beaches

Location	Fall/Winter ¹			Spring ²		
	Digger Trips	Clams Per Trip	Number of Clams	Digger Trips	Clams Per Trip	Number of Clams
Long Beach	95,461	13.7	1,312,553	15,662	14.8	232,099
Twin Harbors	46,864	12.4	581,372	9,600	14.7	141,275
Copalis	43,133	13.4	577,259	8,247	14.6	120,289
Mocrocks	29,727	12.8	380,801	5,233	14.2	74,369
Kalaloch	0	0	0	0	0	0
Total	215,185	13.3	2,851,985	38,742	14.7	568,032

¹ During the 2019/2020 Season, Fall and Winter openers occurred on morning (AM) tides in Long Beach Sept 27-29, 2019 and evening (PM) tides on all beaches October 26, 2019 to March 5, 2020.

² During the 2019/2020 Season, Spring openers occurred on the morning (AM) tides between March 6, 2020 and March 11, 2020 with the season closing early due to the COVID-19 pandemic.

Table 39. 2019 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	1,381	112	2,216	24	2,098	107	841	0	6,779	13,635
7	Birch Bay SP	11,016	3,063	4,625	46,268	2,471	72	3,314	0	59,813	1,968
	Drayton West	1,556	2,401	314	1,592	116	26	6	0	4,455	4,340
8-1	West Penn Cove	4,217	122	857	16,418	4,190	10	439	0	22,036	15,278
	Freeland CP	541	773	192	579	6	17	0	0	1,567	1
9	Fort Flagler SP	1,210	0	1,055	4,332	675	48	1,301	102	7,513	0
	Oak Bay CP	629	177	69	2,962	194	8	377	0	3,787	11
	Indian Island CP	821	978	56	1,304	13	23	101	0	2,475	237
	Port Gamble	3,150	5,773	1,388	1,862	801	271	2,171	47	12,313	21,827
	Wolfe + Shine SP	5,303	4,885	557	8,387	1,646	171	4,226	32	19,904	24,712
12	Dabob Broad Spit	365	866	61	0	7	0	8	0	942	1,028
	Quilcene Bay WDFW Tidelands	5,736	8,926	0	0	0	14	0	0	8,940	35,051
	Dosewallips SP	4,996	3,413	5	0	9	8	0	0	3,435	59,018
	Pt. Whitney Tidelands	1,407	867	78	80	4	1	14	0	1,044	11,711
	Eagle Creek	2,863	939	59	38	1,164	47	87	687	3,021	26,867
	DNR-44A W Dewatto	1,033	1,683	20	0	1	2	1	0	1,707	7,636
	Rendsland Creek	685	560	23	7	86	2	0	399	1,077	9,166
	Potlatch SP	12,080	11,884	957	5,709	4,883	68	303	0	23,804	93,936
	Belfair SP	13,469	19,290	10	0	0	65	0	0	19,365	113,184
	Duckabush	332	351	0	0	3	0	2	28	384	2,400
	Triton Cove Tidelands	1,139	504	47	53	95	0	14	0	713	9,968
	Lilliwaup SP	1,915	6	243	3,215	530	0	58	0	4,052	19,161
Twanoh SP	5,253	2,562	38	0	521	16	0	0	3,137	40,848	
13	North Bay	1,838	3,844	186	0	0	20	0		4,050	14,996
Total		82,935	73,979	13,056	92,830	19,513	996	13,263	1,295	216,313	526,979

Table 40. 2019 Puget Sound and Hood Canal Sport Spot Shrimp Fishery

Area	Date	Angler Trips	Pounds	CPUE (lbs. per trip)
4, 5	May-Sept (128 days)	425	1,300	3.1
6	May-Sept (101 days)	3,578	17,687	4.9
6 (Discovery Bay)	May-June (4 days)	507	1,944	3.8
7	May-August (54 days)	10,915	53,118	4.9
8-1 & 8-2	May (2 days)	5,428	27,954	5.1
9	May (2 days)	1,639	6,844	4.2
10	May (1 day)	1,977	10,608	5.4
11	May (1 day)	733	2,549	3.5
12	May/June/July (8 days)	22,519	86,219	3.8
13	None	na	na	na
Total		47,721	208,223	4.4

This table summarizes the recreational take of spot shrimp (*Pandalus platyceros*) in these areas for the 2019 spot shrimp season.

No estimates of angler trips or pounds harvested of “non-spot” shrimps are included in this table.

Table 41. 2019 Sport Dungeness Crab Catch (all gear types)

Areas 11 and 13 were closed for both summer and winter seasons. Areas 10, 12 and Area 9 south of a line from Foulweather Bluff to Olele 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	808	65
5	Sekiu/Pillar Point	4,722	227
6	Port Angeles Harbor, Dungeness & Sequim Bays, Discovery Bay	131,764	22,181
7	Gulf of Georgia, North of San Juan Islands, Bellingham Bay, Samish Bay, San Juan Islands, Anacortes	437,846	68,378
8-1	Skagit Bay, North Saratoga Passage, Holmes Harbor	293,259	12,244
8-2	South Saratoga Passage, Port Susan, Port Gardner	357,125	19,211
9 ¹	Admiralty Inlet, Port Townsend Bay, Useless Bay	76,881	11,872
10	Seattle/Kingston, Port Orchard	44,530	32
11	Colvos Pass, East Pass	388	
12, 9 ²	Port Ludlow/Port Gamble, Upper Hood Canal, Central Hood Canal, Lower Hood Canal	64,048	2,809
13	South Puget Sound	226	
Total		1,411,597	137,019

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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