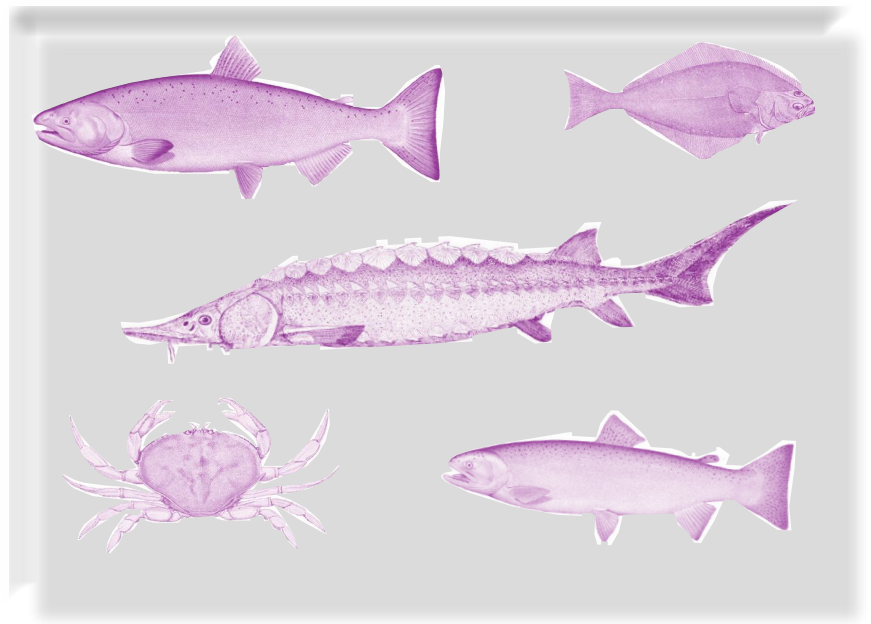


Washington State Sport Catch Report 2016



by Eric Kraig and
Tracey Scalici



*Washington Department of
Fish and Wildlife
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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 2016 sport estimates reflect harvest from April 1, 2016, through March 31, 2017. 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 2016, 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, 2016 through March 31, 2017. 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 2016-2017 cards.

METHODS

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, and winter blackmouth fisheries in Area 7, 8-1, 8-2, 9, 10, and 11.

The sport catch record card is used to produce the annual sport harvest estimates for salmon, steelhead, sturgeon, and halibut. Anglers holding in-sample cards are sent reminders to return their CRC's. Harvest summed from returned in-sample cards is expanded to account for the un-sampled cards (75%) and unreturned cards. A bias adjustment factor is applied in some areas and species to account for successful anglers returning cards at a higher rate than unsuccessful anglers. Creel survey data are substituted for CRC data when available. The preliminary sport harvest estimates are sent to WDFW and Tribal biologists statewide for review. After review comments are compiled and investigated, final sport harvest estimates are prepared and distributed.

The methods used produce estimates of sport harvest, which have some level of uncertainty. This uncertainty, or variance, is estimated and expressed with confidence levels, which are not provided in this report. These variance estimates are available upon request.

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 2016, 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 2016 are shown in Table 4. Between April 1, 2016, and March 31, 2017 a total of 82,537 salmon were caught in marine areas, and 220,736 salmon were caught in freshwater. The marine totals by species, as shown in Table 5, are: 54,161 chinook; 23,035 coho; 4,771 chum; 10 pink; 12 sockeye; and 548 jacks (all species combined). Freshwater species breakdowns are: 107,990 chinook; 40,980 coho; 12,622 chum; 0 pink; 45,649 sockeye; 16,182 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 2016, based on creel surveys and catch record card returns, was 746 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 2016-2017 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 2016 and the spring of 2017 281,373 digging trips resulted in a harvest of 4,117,430 clams, for an average of 14.6 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 114,362 sport harvester trips gathered 360,880 total pounds of clams and 645,980 oysters in 2016 on the monitored beaches.

The Puget sound and Hood Canal shrimp fishery harvest is reported in Table 40. Shrimpers caught 189,890 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 2,254,156 pounds of Dungeness crab.

SPORT LICENSES

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

April 1, 2016 - March 31, 2017 - License Year			
Type of License	Price	Number Sold	Value
Saltwater			
Resident	\$30.05	28,680	\$717,000.00
Non-Resident	\$59.75	2,417	\$125,684.00
Senior	\$8.05	18,566	\$92,830.00
Freshwater			
Resident	\$29.50	337,391	\$8,434,775.00
Non-Resident	\$84.50	13,404	\$1,005,300.00
Senior	\$7.50	43,632	\$218,160.00
Shellfish/Seaweed			
Resident	\$17.40	105,337	\$1,053,370.00
Non-Resident	\$36.10	6,902	\$186,354.00
Senior	\$7.50	23,101	\$115,505.00
Combination (Saltwater/Freshwater/Shellfish)			
Resident	\$55.35	138,183	\$6,218,235.00
Non-Resident	\$124.65	2,815	\$304,020.00
Disabled/Veteran - Res	\$11.35	15,835	\$79,175.00
Disabled/Veteran - NR	\$55.35	407	\$18,315.00
Youth	\$8.05	12,323	\$61,615.00
Promo Upgrade		1,839	\$36,780.00
Short-term Combination			
1-day Resident	\$11.35	41,531	\$332,248.00
1-day Non-Resident	\$20.15	32,226	\$515,616.00
2-day Resident	\$15.75	9,723	\$116,676.00
2-day Non-Resident	\$28.95	12,499	\$299,976.00
3-day Resident	\$19.05	9,466	\$141,990.00
3-day Non-Resident	\$35.55	15,642	\$469,260.00
Razor Clam			
Annual Resident	\$14.10	22,031	\$176,248.00
Annual Non-resident	\$21.80	2,542	\$29,577.00
3-day	\$9.70	24,921	\$124,605.00
PS Crab Endorsement			
Annual	\$8.75	178,244	\$1,336,830.00
1-5 day	\$3.80	12,094	\$36,282.00
Charter/Guide Stamps			
Charter/Guide Stamps	\$8.50	25,155	\$213,818.00
Two-Rod Endorsements			
Resident / Non-resident	\$14.80	62,760	\$815,880.00
Senior	\$6.00	8,635	\$43,175.00
Columbia River Endorsements			
Resident / Non-resident	\$8.75	196,035	\$1,470,262.50
Senior / Youth	\$7.10	18,124	\$108,744.00
Duplicates			
Additional Catch Cards	\$12.60	15,560	\$171,160.00
Licenses	\$9.70	8,280	\$57,232.50
Total		1,446,300	\$25,126,698.00

TECHNICAL DATA

Table 2. Number of Catch Record Cards Issued 1971-2016

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

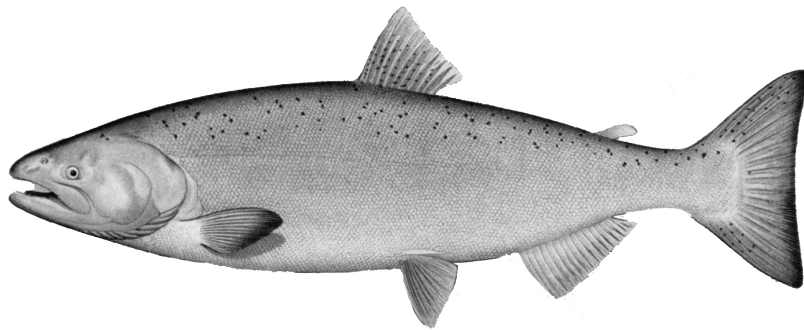
*Starting with the 2000-2001 season, all species were combined on a single card.

**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. 2016-2017 Catch Record Card Technical Data

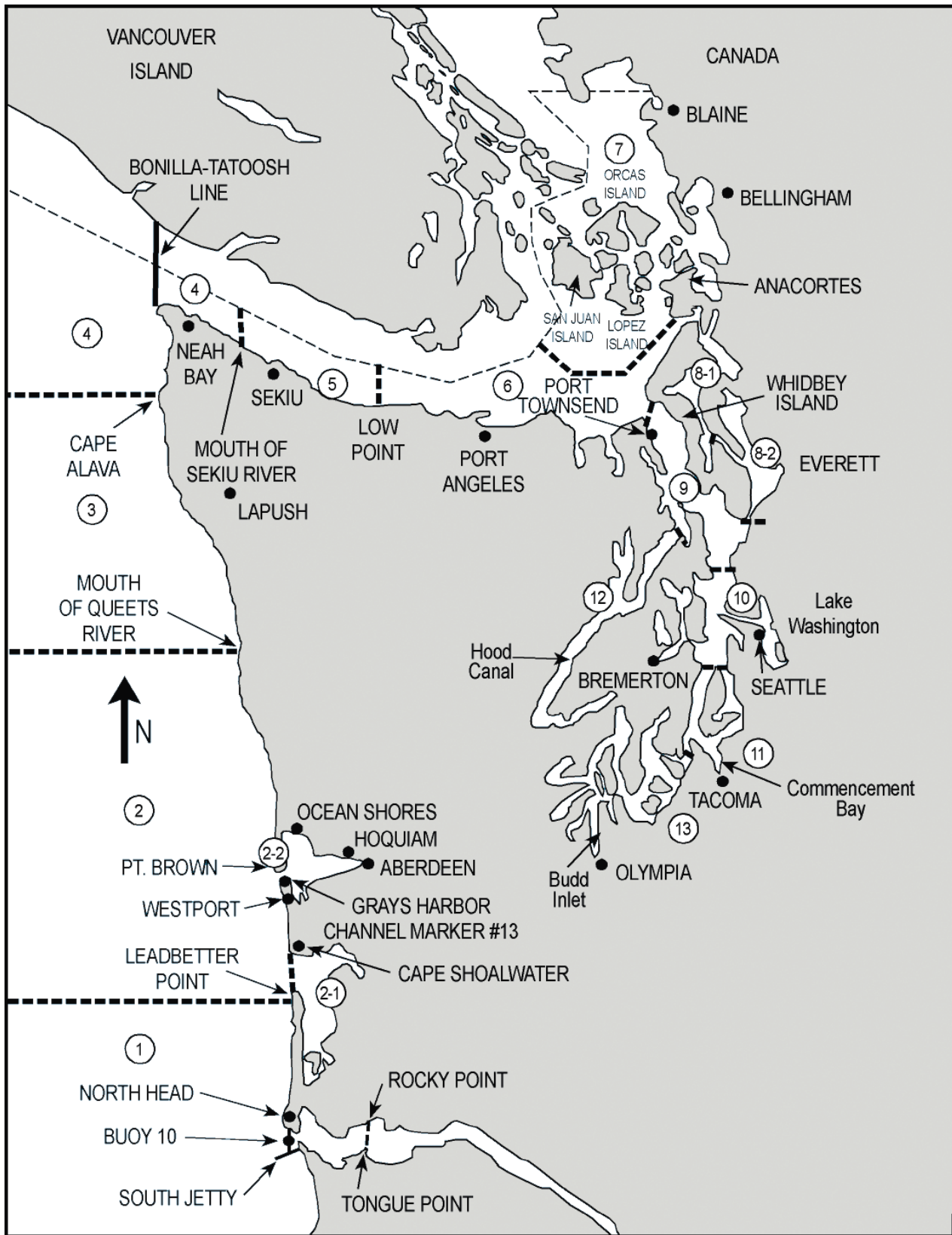
Cards Issued	499,989
In-sample cards	124,997
In-sample cards returned	42,794
Expansion Factor (Cards Issued / In-sample Returns)	11.68
Non-reporting bias correction factors	
Salmon - Marine Area 5	1.00
Salmon - Puget Sound Marine Areas	1.46
Salmon - Freshwater, Grays Harbor, Willapa Bay	1.20
Steelhead	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

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

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, 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, 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 2016-2017 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)	5,072	15,962						21,034	25,085	0.84
Westport (Area 2)	8,315	37						8,352	17,008	0.49
Willapa Bay (Area 2.1)	5,528	1,428				394	102	7,452	N/A	
Grays Harbor (Area 2.2)	361	406				25	27	819	N/A	
LaPush (Area 3)	159	5						164	997	0.16
Neah Bay (Area 4)	3,362	53						3,415	8,347	0.41
Subtotal Coast*	22,797	17,891	0	0		419	129	41,236	51,437	0.64
Sekiu-Pillar Point (Area 5)	4,203	21						4,224	16,392	0.26
East Juan de Fuca (Area 6)	7,227	86					4	7,317	19,066	0.38
San Juan Islands (Area 7)	6,178	17		10				6,205	30,663	0.20
Deception Pass, Hope Island (Area 8-1)	517							517	2,529	0.20
Port Susan & Port Gardner (Area 8-2)	1,107	32	4					1,143	25,475	0.04
Admiralty Inlet (Area 9)	5,705	22	19				8	5,754	23,827	0.24
Seattle-Bremerton (Area 10)	1,546	77	12					1,635	13,980	0.12
Tacoma-Vashon Island (Area 11)	2,094	48	25					2,167	19,772	0.11
Hood Canal (Area 12)	1,421	4,037	4,217					9,675	26,057	0.37
South Puget Sound (Area 13)	1,366	804	494					2,664	15,727	0.17
Subtotal Puget Sound	31,364	5,144	4,771	10	12			41,301	193,488	0.21
Marine Area Totals*	54,161	23,035	4,771	10	12	419	129	82,537	244,925	0.34
Freshwater Totals	107,990	40,980	12,622		45,649	11,821	4,361	223,423	N/A	
Grand Totals	162,151	64,015	17,393	10	45,661	12,240	4,490	305,960	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. 2016 Sport Salmon Catch, Area 1 - Ilwaco: Ocean

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
July 3	2016	128	1,286				1,414	1,135	1.25
July 10	2016	54	1,317				1,371	1,106	1.24
July 17	2016	660	1,324				1,984	1,863	1.06
July 24	2016	974	526				1,500	2,285	0.66
July 31	2016	297	245				542	1,500	0.36
August 7	2016	340	1,043				1,383	2,565	0.54
August 14	2016	994	2,187				3,181	4,376	0.73
August 21	2016	670	4,172				4,842	5,540	0.87
August 28	2016	955	3,862				4,817	4,715	1.02
Total		5,072	15,962				21,034	25,085	0.84

Table 7. 2016 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 7	2016	126	15				141	2,013	0.07
August 14	2016	794	77				871	5,711	0.15
August 21	2016	833	245				1,078	8,100	0.13
August 28	2016	1,590	1,013				2,603	6,994	0.37
September 4	2016	355	1,058				1,413	4,852	0.29
September 11	2016	108	454				562	2,226	0.25
September 18	2016	4	51				55	482	0.11
September 25	2016		60				60	263	0.23
October 2	2016		14				14	121	0.12
Total		3,810	2,987				6,797	30,762	0.22

Table 8. 2016 Sport Salmon Catch, Area 2 - Westport

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
July 3	2016	431					431	1,755	0.25
July 10	2016	681	3				684	1,441	0.47
July 17	2016	1,182	10				1,193	2,094	0.57
July 24	2016	1,476	13				1,489	3,013	0.49
July 31	2016	416	2				418	1,062	0.39
August 7	2016	2,453					2,453	3,055	0.80
August 14	2016	1,542					1,542	3,202	0.48
August 21	2016	133	3				136	1,380	0.10
August 28	2016		6				6	6	0.94
Total		8,315	37				8,352	17,008	0.49

Table 9. 2016-2017 Sport Salmon Catch, Area 2-1 - Willapa Bay

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Chinook Jacks	Coho Jacks	Total Salmon
July	2016	873					29		902
August	2016	3,761	505				328	56	4,650
September	2016	884	893				37	46	1,860
October	2016	10	30						40
Total		5,528	1,428				394	102	7,452

Table 10. 2016-2017 Sport Salmon Catch, Area 2-2 - Grays Harbor

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Chinook Jacks	Coho Jacks	Total Salmon
July	2016	39							39
August	2016	125	62						187
September	2016	148	107				25	17	297
October	2016	49	237					10	296
Total		361	406				25	27	819

Table 11. 2016 Sport Salmon Catch, Area 3 - La Push

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
July 3	2016	52	1				53	196	0.27
July 10	2016	18					18	131	0.14
July 17	2016	18	2				20	91	0.22
July 24	2016	37					37	166	0.22
July 31	2016	2					2	31	0.06
August 7	2016	18					18	196	0.09
August 14	2016	14	2				16	139	0.11
August 21	2016						0	48	0.00
Total		159	5				164	997	0.16

Table 12. 2016 Sport Salmon Catch, Area 4 - Neah Bay

Week Ending	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
July 3	2016	493	16				508	1,410	0.36
July 10	2016	732	8				740	1,896	0.39
July 17	2016	1,026					1,026	1,947	0.53
July 24	2016	667	2				669	1,445	0.46
July 31	2016	190	4				194	892	0.22
August 7	2016	128	7				135	268	0.50
August 14	2016	56	12				68	200	0.34
August 21	2016	71	4				75	288	0.26
Total		3,362	53				3,416	8,347	0.41

Table 13. 2016-2017 Sport Salmon Catch, Area 5 - Sekiu - Pillar Point

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	368					368	1,067	0.34
July	2016	2,296	5				2,301	9,251	0.25
August	2016	1,099	16				1,115	5,418	0.21
February	2017	226					226	367	0.62
March	2017	214					214	289	0.74
Total		4,203	21				4,224	16,392	0.26

NOTE: Estimates for July to August 15 are from creel surveys; other estimates are from catch record cards.

Table 14. 2016-2017 Sport Salmon Catch, Area 6 - East Juan de Fuca Strait

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
July	2016	4,231	5		4		4,240	10,792	0.39
August	2016	985	7				992	3,924	0.25
October	2016		74				74	201	0.37
December	2016	229					229	459	209.00
January	2017	501					501	691	55.00
February	2017	864					864	1,838	5367.00
March	2017	417					417	1,161	453.00
Total		7,227	86		4		7,317	19,066	0.38

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

Table 15. 2016-2017 Sport Salmon Catch, Area 7 - San Juan Islands

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	65					65	334	
July	2016	1,184					1,184	7,871	0.15
August	2016	632		10			642	7,412	0.09
September	2016	805	17				822	6,761	0.12
October	2016	343					343	1,264	0.27
December	2016	1,063					1,063	2,465	0.43
January	2017	1,214					1,214	2,409	0.50
February	2017	221					221	519	0.43
March	2017	651					651	1,628	0.40
Total		6,178	17	10			6,205	30,663	0.20

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

Table 16. 2016-2017 Sport Salmon Catch, Area 8-1 - Deception Pass / Hope Island

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	119					119	411	0.29
July	2016	8					8	32	0.25
November	2016	170					170	623	0.27
December	2016	87					87	559	0.16
January	2017	30					30	177	0.17
February	2017	44					44	361	0.12
March	2017	59					59	366	0.16
Total		517					517	2,529	0.20

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

Table 17. 2016-2017 Sport Salmon Catch, Area 8-2 - Port Susan / Port Gardner

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	65					65	658	0.10
June	2016	24					24	1,855	0.01
July	2016	187					187	5,561	0.03
August	2016	106					106	4,637	0.02
September	2016	33	32				65	7,947	0.01
November	2016	232					232	1,417	0.16
December	2016	165				4	169	1,192	0.14
January	2017	73					73	554	0.13
February	2017	98					98	830	0.12
March	2017	124					124	824	0.15
Total		1,107	32			4	1,143	25,475	0.04

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

Table 18. 2016-2017 Sport Salmon Catch, Area 9 - Admiralty Inlet

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	414					414	1,514	0.27
July	2016	2,791	22		8		2,821	13,663	0.21
August	2016	123					123	666	0.18
September	2016	8				16	24	97	0.25
November	2016	1,375				3	1,378	3,660	0.38
December	2016	24					24	87	
January	2017	8					8	30	0.27
February	2017	514					514	2,222	0.23
March	2017	448					448	1,888	0.24
Total		5,705	22		8	19	5,754	23,827	0.24

NOTE: Estimates from July 16-August 7, November, and February-March are from creel surveys; all other estimates are from catch record cards.

Table 19. 2016-2017 Sport Salmon Catch, Area 10 - Seattle / Bremerton

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
July	2016	514	21				535	5,854	0.09
August	2016	769	14				783	5,272	0.15
September	2016	7	34				41	314	0.13
October	2016		8			8	16	125	0.13
November	2016	110				4	114	966	
December	2016	105					105	1,233	
January	2017	41					41	216	0.19
Total		1,546	77			12	1,635	13,980	0.12

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

Table 20. 2016-2017 Sport Salmon Catch, Area 11 -Tacoma / Vashon Island

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	277					277	2,820	0.10
June	2016	51					51	481	0.11
July	2016	866	12				878	8,684	0.10
August	2016	803	36				839	5,551	0.15
September	2016	8					8	83	0.10
October	2016	8					8	32	0.25
November	2016					25	25	162	0.15
February	2017	8					8	1,144	0.01
March	2017	73					73	815	0.09
Total		2,094	48			25	2,167	19,772	0.11

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

Table 21. 2016-2017 Sport Salmon Catch, Area 12 - Hood Canal

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	97					97	542	0.18
July	2016	186					186	1,982	0.09
August	2016	896	1,298				2,194	6,156	0.36
September	2016	150	2,320			15	2,485	10,273	0.24
October	2016		419			1,076	1,495	4,691	0.32
November	2016	3				3,126	3,129	1,620	1.93
January	2017	32					32	243	0.13
February	2017	16					16	87	0.18
March	2017	41					41	463	0.09
Total		1,421	4,037			4,217	9,675	26,057	0.37

Table 22. 2016-2017 Sport Salmon Catch, Area 13 - South Puget Sound

Statistical Month	Year	Chinook	Coho	Pink	Sockeye	Chum	Total Salmon	Marine Angler Trips	Salmon per Trip
April	2016	39	10				49	555	0.09
June	2016	24					24	1,562	0.02
July	2016	114					114	3,401	0.03
August	2016	1,041	14				1,055	4,690	0.22
October	2016		538			95	633	1,900	0.33
November	2016					399	399	750	0.53
February	2017	41	81				122	923	
March	2017	107	161				268	1,946	0.14
Total		1,366	804			494	2,664	15,727	0.17

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																			
System	Stream	CRC Code	Species	2016								2017			Total				
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar			
Grays Harbor	Humptulips River	358	Chinook						1,302	982								2,284	
			Chum							97	19								116
			Coho						111	1,071	344	273	40						1,839
			Jackchin						210	110									320
			Jackcoho							10	19	10							39
			Total						1,623	2,270	382	283	40						4,598
Chehalis R. System	Chehalis River	315	Chinook			19			38	29	19						105		
			Chum							10								10	
			Coho						244	351	146	58						799	
			Jackchin						160	80								240	
			Jackcoho						366	452	10	19						847	
			Total			19			808	922	175	77						2,001	
	Newaukum River	325	Coho											38				38	
			Total											38				38	
	Satsop River	329	Chinook						94	84	43						10	231	
			Chum							48	69							117	
			Coho						20	221	279	131	10					661	
			Jackchin						10	48	10							68	
			Jackcoho						60	50	110	40						260	
Total								184	451	511	171	10			10		1,337		
Skookumchuck River	333	Coho							48	48	19						115		
		Total							48	48	19						115		
Wynoochee River	337	Chum								10							10		
		Coho							10								10		
		Total							10	10							20		
Copalis R. System	Copalis River	339	Coho						220	10							230		
			Jackcoho							48								48	
			Total							268	10							278	

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																	
System	Stream	CRC Code	Species	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Hoh R. System	Hoh River below Oxbow Launch	350	Chinook						47						47		
			Coho						16	24						40	
			Jackchin						8								8
			Total						71	24							95
Joe Creek System	Joe Creek	323	Coho								79	24			103		
			Total									79	24			103	
Queets R. System	Queets River	394	Chinook								9				9		
			Coho						244	19						263	
			Jackchin						28								28
			Jackcoho						19	9							28
	Total						291	37							328		
	Salmon River (Jefferson Co.)	396	Coho						140	37					177		
			Total						140	37					177		
Quillayute R. System	Bogachiel River	398	Coho				10								10		
			Jackcoho					10								10	
			Total				10	10								20	
	Calawah River	400	Chinook									10				10	
			Jackchin						19								19
			Total						19				10				29
	Quillayute River	404	Chinook					10	19							29	
			Coho					86	105	86	10					287	
			Sockeye					10									10
			Jackchin								29						29
			Jackcoho					19	48	29							96
			Total					125	172	144	10						451
	Sol Duc River	406	Chinook	77	144	220		29								470	
Coho							48	95		124	10				277		
Sockeye					115	19	10	11								155	
Jackchin			10		19											29	
Jackcoho							26	13								39	
Total			87	144	354	19	113	119			124	10				970	

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Quinault R. System	Quinault River	410	Coho						10	41	135	31				217
			Total						10	41	135	31				217
Van Winkle Creek	Van Winkle Creek	419	Coho							8						8
			Total						8						8	
Willapa Bay	Bear River (Pacific Co.)	305	Jackchin							10						10
			Total						10						10	
	Naselle River	375	Chinook					10	947	130	10					1,097
			Chum							20						20
			Coho						564	711	287	277	10			1,849
			Jackchin						67							67
			Jackcoho							19						19
	Total					10	1,578	880	297	277	10			3,052		
	Nemah River	379	Chinook					57	2,468	115						2,640
			Chum						124	19						143
			Coho						29			19			48	
			Jackchin					19	163						182	
	Total					76	2,784	134		19				3,013		
	North River	382	Coho							277	38					315
Jackcoho									96						96	
Total								373	38					411		
Smith Creek (Pacific Co.)	384	Chum								19					19	
		Coho							10	77				87		
		Total						10	96					106		
Willapa River	424	Chinook					38	536	517	59					1,150	
		Chum							10						10	
		Coho					19	67	373	678	325	48			1,510	
		Jackchin						96	10						106	
		Jackcoho						12	12	47	35				106	
Total					57	711	922	784	360	48			2,882			

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Coastal River Totals			Chinook	77	144	239		144	5,451	1,866	141				10	8,072
			Chum						124	204	117					445
			Coho				10	153	1,645	3,586	2,200	1,181	108			8,883
			Sockeye			115	19	20	11							165
			Jackchin	10		19			38	742	287	10				1,106
			Jackcoho						55	518	725	186	104			1,588
			Total	87	144	373	29	410	8,491	6,668	2,654	1,285	108		10	20,259

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																	
System	Stream	CRC Code	Species	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Columbia R. Mainstem	Buoy 10 Line - Rocky Pt- Tongue Pt Line	519	Chinook					3,343	467			10				3,820	
			Coho					1,350	1,623	14	10					2,997	
			Jackchin														
			Jackcoho														
			Total					4,693	2,090	14	20						6,817
Columbia R. Mainstem	Columbia - below Bonneville	521	Chinook	3,371	922	1,941	728	4,314	8,759	848					27	20,910	
			Coho					40	406	259	10	10				725	
			Sockeye			358	151									509	
			Jackchin	9	225	160	74	157	629	102						1,356	
			Jackcoho					4	31	23						58	
			Total	3,380	1,147	2,459	953	4,515	9,825	1,232	10	10				27	23,558

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVERS SYSTEMS																	
System	Stream	CRC Code	Species	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Cowlitz R. System	Blue Creek	507	Chinook						19	29						48	
			Coho								39						39
			Total						19	29	39						87
	Cispus River	555	Chinook	10		10	19	10									49
			Coho								39	358	261	106			764
			Jackchin									10	39				49
			Jackcoho									10	19	10			39
	Cowlitz R. below Mayfield Dam	561	Chinook	4,258	1,938	955	341	292	1,121	463	20	10	10	49	293		9,750
			Coho					39	503	1,994	1,456	146		19			4,157
			Jackchin	418	817	379	49	39	126	68							1,896
Jackcoho								177	256	59						492	
Cowlitz R. between Mayfield & Cowlitz Falls Dams	563	Chinook	10	10					19							39	
		Total	10	10					19							39	
		Chinook	474	329	145	29	19									996	
		Coho							10	87	792	213				1,102	
Cowlitz R. above Cowlitz Falls Dam	559	Jackchin		68	10										78		
		Jackcoho					10			68					78		
		Total	474	397	155	29	29	10	87	860	213					2,254	
		Green River (Cowlitz Co.) below Toutle Hatchery	565	Chinook					10	58							68
Mill Cr. (Lewis Co.)	625	Coho						10	106						116		
		Total					10	68	106							184	
Olequa Creek (Cowlitz Co.)	569	Chinook								10						10	
		Total								10						10	

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVERS SYSTEMS															
System	Stream	CRC Code	Species	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Cowlitz R. System (continued)	Tilton River	571	Chinook	10	10				126	68	10				224
			Coho				20	49	332	1,065	205	78			1,749
			Jackchin						10	68	10				88
			Jackcoho						77	116	19				212
			Total	10	10		20	49	545	1,317	244	78			2,273
	Toutle River	573	Chinook						29	29					58
			Coho							77					77
			Jackchin								10				10
			Total						29	116					145
	Toutle River, No Fork	575	Chinook					49	356	10					415
			Coho						116	338					454
			Jackchin							10					10
Total							49	482	348					879	
Lewis R. System	Lewis River	611	Chinook	10	20			10	59	10	20	10		139	
			Coho						10	78				88	
			Jackchin						10					10	
			Total	10	20			10	79	88	20	10		237	
	Lewis River, North Fork	615	Chinook		20			128	412	463	148	10		1,181	
			Coho					39	598	947	303	29		1,916	
Total			Jackchin				10	59	59	10	10		148		
			Jackcoho					10	166	78	10			264	
Lower Columbia	Abernathy Creek	501	Coho								9			9	
	Total										9			9	
	Coal Creek (Cowlitz Co.)	517	Chinook								18			18	
Total			Coho								18			18	
			Total									18			18
Deep River (Wahkiakum Co.)	580	Coho							18					18	
		Total							18					18	

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIAN RIVER SYSTEMS																			
System	Stream	CRC Code	Species	2016								2017			Total				
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar			
Lower Columbia (continued)	Elochoman River above Foster Rd Bridge	584	Coho									9				9			
			Total													9			
	Grays River above Barr Rd Bridge	595	Coho							9	18						27		
			Total							9	18						27		
	Grays River below Barr Rd Bridge	594	Coho							18							18		
			Jackcoho							9							9		
			Total							27							27		
	Grays River, West Fork	596	Chinook								37	9						46	
			Coho							74	46							120	
			Jackcoho							18									18
Total									92	83	9							184	
Kalama River below Modrow Bridge	604	Chinook	303	248	18		166	359	18									1,112	
		Coho					9	55	120									184	
		Jackchin	18	55	28													101	
		Jackcoho						9										9	
Total	321	303	46		175	423	138										1,406		
Kalama River between Modrow Bridge and Kalama Falls Hatchery	603	Chinook	276	588	83	9		64	9									1,029	
		Coho							276	138									414
		Jackchin		9	28	9													46
		Jackcoho							18										18
Total	276	597	111	18		64	303	138										1,507	
Washougal R., West Fork	665	Chinook					46												46
		Total					46												46
Washougal River above County Line Access	668	Chinook							18									18	
		Coho							83	28									111
		Total							101	28									129

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Lower Columbia (continued)	Washougal River below County Line Access	667	Chinook					184	954			9				1,147
			Coho					37	112		9	9				167
			Jackchin					9	28							37
			Jackcoho						46							46
			Total					230	1,140		9	18				1,397
Lower Columbia System Totals			Chinook	8,722	4,085	3,152	1,126	8,571	12,812	1,975	254	39	10	49	320	41,115
			Coho				20	1,563	3,775	5,611	3,448	737	125			15,279
			Sockeye			358	151									509
			Jackchin	445	1,174	605	132	215	872	307	30	49				3,829
			Jackcoho					24	506	528	175	10				1,243
			Total	9,167	5,259	4,115	1,429	10,373	17,965	8,421	3,907	835	135	49	320	61,975

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS															
System	Stream	CRC Code	Species	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Big White Salmon River	Big White Salmon River	508	Chinook					8							8
			Coho							8					8
			Total					8	8						16
Klickitat River	Klickitat River above Fishway 5	608	Chinook			226	29		765	353	20				1,393
			Coho						10	10	49				69
			Jackchin			69		20	10	10					109
			Total			295	29	20	785	373	69				1,571
	Klickitat River below Fishway 5	607	Chinook		178	20	40	99	2,488	840	60	69			3,794
			Coho						20	2,601	855				3,476
			Jackchin		69	39	39		98	49	39				333
			Jackcoho						10	216	88				314
			Total		247	59	79	99	2,616	3,706	1,042	69			7,917

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIAN RIVER SYSTEMS															
System	Stream	CRC Code	Species	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Little White Salmon River & Drano Lake	Little White Salmon River & Drano Lake	618	Chinook	639	1,541	28	47	761	1,049	592					4,657
			Coho					18	197	120	18				353
			Sockeye						9						9
			Jackchin		74			102	46						222
			Jackcoho						9						9
			Total	639	1,615	28	47	881	1,310	712	18				
Mid Columbia	Columbia - Bonneville Dam to The Dalles Dam	527	Chinook	85	152	47	9	569	1,991	579				3,432	
			Coho						95	114	85			294	
			Jackchin		9		9	57	161	76				312	
			Jackcoho						28	9				37	
			Total	85	161	47	18	626	2,275	778	85				4,075
	Columbia - The Dalles Dam to John Day Dam	529	Chinook	199	598	9	28	237	1,299	123				2,493	
			Coho						29	28				57	
			Sockeye				19							19	
			Jackchin	19	57			9	47					132	
			Total	218	655	9	47	246	1,375	151					2,701
	Columbia - John Day Dam to McNary Dam	531	Chinook	19	123	9		9	66	47				273	
			Coho							28				28	
Jackchin				19				9					28		
Jackcoho								19					19		
Total			19	142	9		9	94	75					348	
Wind R. System	Wind River above Shiphed Falls	677	Chinook	10	649	126							785		
			Jackchin		39									39	
			Total	10	688	126								824	
	Wind River below Shiphed Falls	680	Chinook	978	1,791	29		48	145	39				3,030	
			Coho						29	29				58	
Total	12	111			12							135			
Total	990	1,902	29		60	174	68						3,223		

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Middle Columbia System Totals			Chinook	1,930	5,032	494	153	1,723	7,811	2,573	80	69				19,865
			Coho					18	380	2,938	1,007					4,343
			Sockeye				19		9							28
			Jackchin	31	378	108	48	200	371	135	39					1,310
			Jackcoho						66	225	88					379
			Total	1,961	5,410	602	220	1,941	8,637	5,871	1,214	69				25,925

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Entiat River	Entiat River	586	Chinook				60	199	30	20					309	
			Total				60	199	30	20					309	
Okanogan R. System	Okanogan River	627	Sockeye													
	Similkameen River	629	Chinook					24	95						119	
			Jackchin				8								8	
			Total				8	24	95					127		
Upper Columbia	Columbia - McNary Dam to Hwy 395 Bridge	533	Chinook	30	20	10		10	40	131					241	
			Coho							10					10	
			Sockeye			10										10
			Jackchin								10					10
			Total	30	20	20		10	40	151						271
Columbia - Hwy 395 Bridge to I-182 Bridge	534	Chinook				10	98	410	303					821		
		Sockeye				164	19							183		
		Jackchin				10		19	29					58		
		Total				184	117	429	332					1,062		

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COLUMBIA RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Upper Columbia (continued)	Columbia - I-182 Bridge-old Hanford townsite	535	Chinook	29		10	29	97	4,710	4,972					9,847	
			Coho						39	39					78	
			Sockeye			10	1,052		10	10						1,082
			Jackchin	10			10		309	261						590
			Jackcoho						10							10
			Total	39		20	1,091	97	5,078	5,282						11,607
Columbia - Old Hanford townsite-Priest Rapids Dam	536	Chinook			10	19	10	3,415	4,250					7,704		
		Coho						39	48					87		
		Sockeye				97				10				107		
		Jackchin						405	280					685		
Total			10	116	10	3,859	4,588						8,583			
Columbia - Priest Rapids to Wanapum Dam	537	Chinook				270	68	724	290					1,352		
		Sockeye				154								154		
		Jackchin				174	29	39	29					271		
		Total				598	97	763	319					1,777		
Columbia - Wanapum to Rock Island Dam	539	Chinook				20		219	408					647		
		Sockeye				19								19		
		Jackchin						43	14					57		
		Total				39		262	422					723		
Columbia - Rock Island to Rocky Reach Dam	541	Chinook			10	116	39	19	10					194		
		Sockeye				1,390								1,390		
		Jackchin				29	19							48		
		Total			10	1,535	58	19	10					1,632		
Columbia - Rocky Reach to Wells Dam	543	Chinook				1,313	444	48	10					1,815		
		Sockeye				1,274	10	10						1,294		
		Jackchin				232	106							338		
		Total				2,819	560	58	10					3,447		

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Upper Columbia (continued)	Columbia - Wells to Chief Joseph Dam	545	Chinook				745	532	39	39					1,355	
			Sockeye			49	4,283	933	10						5,275	
			Jackchin				77	116			10				203	
			Jackcoho													
			Total			49	5,105	1,581	49	39	10					6,833
Wenatchee R. System	Icicle Creek	672	Chinook		261	386								647		
			Total		261	386								647		
	Lake Wenatchee	670	Sockeye			15,402	10,388	243						26,033		
			Total			15,402	10,388	243						26,033		
Wenatchee River	674	Chinook					19	10					29			
		Total					19	10					29			
Yakima R. System	Yakima River	690	Chinook			10			390	760				1,160		
			Jackchin			10			38	48				96		
			Total			20			428	808				1,256		
Upper Columbia System Totals			Chinook	59	281	436	2,582	1,540	10,149	11,193				26,240		
			Coho						78	97				175		
			Sockeye			69	23,835	11,350	273	20				35,547		
			Jackchin	10		10	540	270	853	671	10			2,364		
			Jackcoho						10					10		
Total	69	281	515	26,957	13,160	11,363	11,981	10				64,336				

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS															
System	Stream	CRC Code	Species	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Snake R. System	Snake River: below Ice Harbor	640	Chinook	39	459						20				518
			Jackchin		48										48
			Total	39	507					20					566
	Snake River: Ice Harbor to Lower Monumental Dam	642	Chinook		10						10				20
			Total		10						10				20
	Snake River: Lower Monumental to Little Goose Dam	644	Chinook	48	690	86			10	77					911
			Jackchin		115					57	10				182
Total			48	805	86			10	134	10				1,093	
Snake River: Little Goose to Lower Granite Dam	646	Chinook								10				10	
		Total								10				10	
Snake River: Lower Granite to Interstate Bridge	648	Chinook	10	671	10		10	460	48					1,209	
		Jackchin		19				29	19					67	
		Total	10	690	10		10	489	67					1,276	
Snake River: upstream of Interstate Bridge	650	Chinook								48				48	
		Jackchin								19				19	
		Total								67				67	
Snake River System Totals			Chinook	97	1,830	96		10	470	213				2,716	
			Jackchin		182				29	95	10			316	
			Total	97	2,012	96		10	499	308	10			3,032	

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Deschutes R. System	Deschutes River	728	Chinook						24							24
			Total						24							24
Dewatto R. System	Dewatto River	732	Coho							63						63
			Total						63							63
Dungeness R. System	Dungeness River	738	Coho							492	146					638
			Jackchin							91	64					155
			Total						583	210						793
Green-Duwamish R. System	Green - Duwamish River	746	Chum								979	26				1,005
			Coho						583	945	222					1,750
			Jackcoho						44	371	18					433
			Total						627	1,316	1,219	26				3,188
Kennedy Cr. System	Kennedy Creek	754	Chum							51	296					347
			Total						51	296						347
Lake Washington System	Lake Washington	762	Coho						357	337						694
			Jackcoho						19	58						77
			Total						376	395						771
Minter Cr. System	Minter Creek	778	Chum								3,481	1,911				5,392
			Total								3,481	1,911				5,392
Nisqually R. System	Nisqually River	786	Chinook					1,318	699	30						2,047
			Coho							10						10
			Jackchin				10	1,201	620							1,831
			Jackcoho						10							10
			Total				10	2,519	1,329	40						3,898

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Nooksack Samish R. System	Dakota Creek (Whatcom Co.)	724	Coho							10					10	
			Total								10					10
	Nooksack River	788	Chinook						10	10						20
			Chum									144	19			163
			Coho						289	289						578
			Jackchin						10							10
			Jackcoho						58							58
			Total						367	299	144	19			829	
	Samish River	816	Chinook					444	3,897	1,071						5,412
			Chum									10				10
			Coho						59	106						165
			Jackchin					58	414	39						511
			Jackcoho						10	29						39
		Total					502	4,380	1,245	10				6,137		
Whatcom Creek	884	Chinook								10					10	
		Chum								160	4,527	321			5,008	
		Coho						10			10				20	
		Total						10	170	4,537	321				5,038	
Puyallup R. System	Carbon River	802	Chinook					580							580	
			Jackchin					211								211
			Total					791								791
Puyallup River	804	Chum								44					44	
		Coho									26				26	
		Total									70				70	
Quilcene R. System	Quilcene River	812	Coho					953	1,707	417					3,077	
			Jackcoho					20	129	20						169
			Total					973	1,836	437						3,246

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

PUGET SOUND RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016									2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
Skagit R. System	Baker Lake	825	Sockeye				6,889	1,708	374							8,971
			Total				6,889	1,708	374							8,971
	Cascade River	826	Chinook			19	19									38
			Coho							1,027	99					1,126
			Jackchin				10									10
	Skagit River	830	Total			19	29				1,027	99				1,174
			Chinook				10									10
			Chum									10				10
			Coho							58	1,802	422	38			2,320
			Sockeye			38	143									181
Jackchin						10									10	
Jackcoho											19				19	
Total			38	163			58	1,821	432	38				2,550		
Snohomish R. System	Skykomish River	844	Chinook			28	404								432	
			Coho							329	132				461	
			Jackchin			19	235								254	
			Jackcoho									19			19	
			Total			47	639				329	151			1,166	
	Snohomish River	850	Coho							470	10			480		
			Jackcoho								9			9		
			Total							479	10			489		
	Wallace River	860	Coho							188	56	9		253		
			Jackcoho								9			9		
Total								197	56	9		262				
Puget Sound System Totals			Chinook			47	433	1,762	5,210	1,121				8,573		
			Chum								211	9,491	2,277		11,979	
			Coho						953	3,063	6,485	1,123	47		11,671	
			Sockeye			38	7,032	1,708	374						9,152	
			Jackchin			19	265	1,259	1,255	39					2,837	
			Jackcoho						20	270	606	101			997	
			Total			104	7,730	5,702	10,172	8,462	10,715	2,324			45,209	

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

COASTAL RIVER SYSTEMS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Unknown Area Totals			Chinook	81	62	51	165	298	383	288	10		10	31	30	1,409
			Chum							10	158	30				198
			Pink													
			Coho				64	90	155	240	60	20				629
			Sockeye				210	38								248
			Jackchin			10	10		10	29						59
			Jackcoho						48	86		10				144
			Total	81	62	61	449	426	596	653	228	60	10	31	30	2,687

Table 23. 2016-2017 Freshwater Salmon Sport Catch by Area and Month (continued)

STATEWIDE TOTALS																
System	Stream	CRC Code	Species	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Statewide Totals			Chinook	10,966	11,434	4,515	4,459	14,048	42,286	19,229	485	108	20	80	360	107,990
			Chum						124	425	9,766	2,307				12,622
			Pink													
			Coho			94	2,777	9,096	18,957	7,838	1,985	233				40,980
			Sockeye			580	31,266	13,116	667	20						45,649
			Jackchin	496	1,734	771	995	1,982	4,132	1,563	99	49				11,821
			Jackcoho					99	1,418	2,170	550	124				4,361
			Total	11,462	13,168	5,866	36,814	32,022	57,723	42,364	18,738	4,573	253	80	360	223,423

Table 24. 2016-2017 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	1,346	19,238	7.0	605	41	646	0.48
Asotin	2,007	22,306	9.0	739	49	788	0.39
Benton	16,966	193,686	8.8	9,613	842	10,455	0.62
Chelan	7,026	76,338	9.2	14,064	451	14,515	2.07
Clallam	9,192	74,570	12.3	2,261	6,604	8,865	0.96
Clark	37,007	467,018	7.9	23,348	3,777	27,125	0.73
Columbia	506	3,938	12.8	80	10	90	0.18
Cowlitz	18,036	105,160	17.2	13,752	2,143	15,895	0.88
Douglas	3,282	41,327	7.9	4,869	130	4,999	1.52
Ferry	276	7,614	3.6	143	60	203	0.74
Franklin	7,308	90,160	8.1	3,855	332	4,187	0.57
Garfield	328	2,247	14.6	143	110	253	0.77
Grant	5,013	93,546	5.4	2,751	301	3,052	0.61
Grays Harbor	9,857	71,628	13.8	4,726	2,617	7,343	0.74
Island	9,138	82,636	11.1	1,816	1,839	3,655	0.4
Jefferson	3,573	31,139	11.5	436	3,299	3,735	1.05
King	82,411	2,149,970	3.8	22,725	12,232	34,957	0.42
Kitsap	18,883	264,811	7.1	2,679	4,725	7,404	0.39
Kittitas	2,909	44,866	6.5	1,869	193	2,062	0.71
Klickitat	2,933	21,301	13.8	3,302	41	3,343	1.14
Lewis	10,273	77,066	13.3	8,634	1,827	10,461	1.02
Lincoln	706	10,350	6.8	863	54	917	1.3
Mason	5,705	62,198	9.2	1,032	1,994	3,026	0.53
Okanogan	3,075	41,554	7.4	1,513	99	1,612	0.52
Pacific	3,820	21,249	18.0	3,383	2,905	6,288	1.65
Pend Oreille	461	13,123	3.5	222	44	266	0.58
Pierce	52,510	861,312	6.1	16,947	11,605	28,552	0.54
San Juan	2,105	16,339	12.9	53	623	676	0.32
Skagit	14,646	123,681	11.8	5,803	2,210	8,013	0.55
Skamania	1,238	11,510	10.8	1,433	20	1,453	1.17
Snohomish	51,743	787,620	6.6	15,016	6,116	21,132	0.41
Spokane	13,340	499,072	2.7	7,067	966	8,033	0.6
Stevens	1,444	44,439	3.2	551	180	731	0.51
Thurston	19,836	275,222	7.2	7,174	5,651	12,825	0.65
Wahkiakum	1,108	4,139	26.8	615	71	686	0.62
Walla Walla	4,403	60,340	7.3	1,318	109	1,427	0.32
Whatcom	16,140	216,800	7.4	5,634	1,346	6,980	0.43
Whitman	1,730	48,851	3.5	222	129	351	0.2
Yakima	15,745	249,636	6.3	8,723	518	9,241	0.59
Unknown WA	849			658	118	776	0.91
Washington Total	458,874	7,288,000	6.3	200,637	76,381	277,018	0.6
Other State Total	39,467			22,724	6,122	28,846	0.73
Canada	1,270			45	34	79	0.06
Other	378			17		17	0.04
Grand Total	499,989			223,423	82,537	305,960	0.61

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2016.
 Source: Population Division, U.S. Census Bureau. Release Date: June 2017.

Table 25. 2016-2017 Frequency Distribution of Estimated Salmon Catch Record Cards and Catch

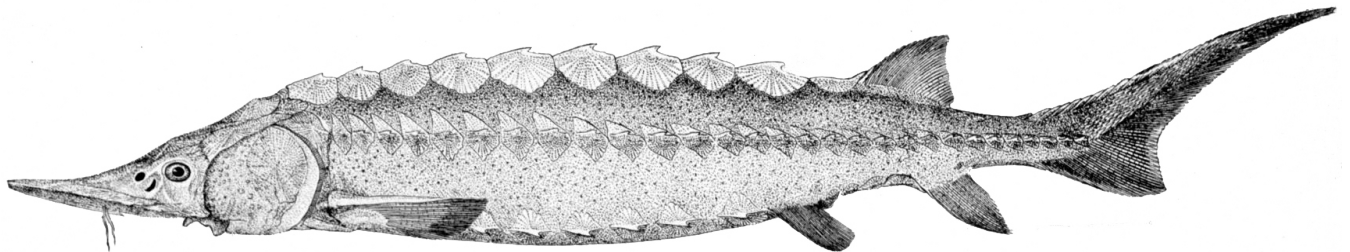
#Salmon per Catch Record Card	Number of Cards	Cumulative Number of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	422,554	422,554	84.51%	84.51%	0	0	0.00%	0.00%
1	28,154	450,708	5.63%	90.14%	28,154	28,154	9.20%	9.20%
2	16,212	466,920	3.24%	93.39%	32,424	60,578	10.60%	19.80%
3	8,041	474,961	1.61%	94.99%	24,123	84,701	7.88%	27.68%
4	5,979	480,940	1.20%	96.19%	23,916	108,617	7.82%	35.50%
5	3,475	484,415	0.70%	96.89%	17,375	125,992	5.68%	41.18%
6	2,799	487,214	0.56%	97.44%	16,794	142,786	5.49%	46.67%
7	1,724	488,938	0.34%	97.79%	12,068	154,854	3.94%	50.61%
8	1,872	490,810	0.37%	98.16%	14,976	169,830	4.89%	55.50%
9	1,386	492,196	0.28%	98.44%	12,474	182,304	4.08%	59.58%
10	1,135	493,331	0.23%	98.67%	11,350	193,654	3.71%	63.29%
11	936	494,267	0.19%	98.86%	10,296	203,950	3.37%	66.66%
12	693	494,960	0.14%	98.99%	8,316	212,266	2.72%	69.38%
13	771	495,731	0.15%	99.15%	10,023	222,289	3.28%	72.66%
14	503	496,234	0.10%	99.25%	7,042	229,331	2.30%	74.96%
15	477	496,711	0.10%	99.34%	7,155	236,486	2.34%	77.30%
16	520	497,231	0.10%	99.45%	8,320	244,806	2.72%	80.02%
17	295	497,526	0.06%	99.51%	5,015	249,821	1.64%	81.66%
18	295	497,821	0.06%	99.57%	5,310	255,131	1.74%	83.40%
19	234	498,055	0.05%	99.61%	4,446	259,577	1.45%	84.85%
20	234	498,289	0.05%	99.66%	4,680	264,257	1.53%	86.38%
21	165	498,454	0.03%	99.69%	3,465	267,722	1.13%	87.51%
22	182	498,636	0.04%	99.73%	4,004	271,726	1.31%	88.82%
23	165	498,801	0.03%	99.76%	3,795	275,521	1.24%	90.06%
24	173	498,974	0.03%	99.80%	4,152	279,673	1.36%	91.42%
25	165	499,139	0.03%	99.83%	4,125	283,798	1.35%	92.77%
26	815	499,954	0.16%	99.99%	21,190	304,988	6.93%	99.70%
27	26	499,980	0.01%	100.00%	702	305,690	0.23%	99.93%
30	9	499,989	0.00%	100.00%	270	305,960	0.07%	100.00%
Total		499,989		100.00%		305,960		100.00%

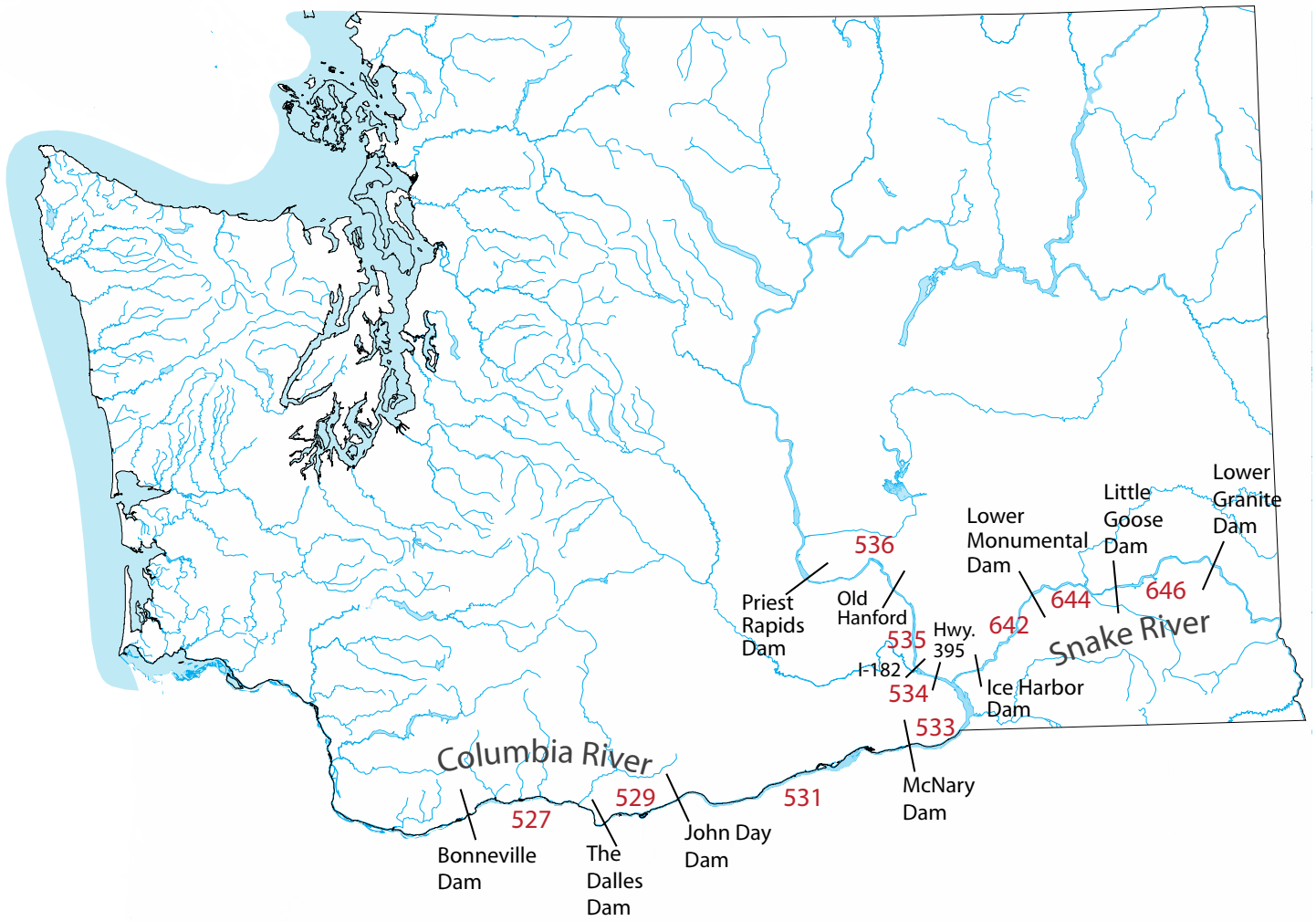
*Note: A single card has room for twenty-six salmon entries. Cards showing more than that were filled out incorrectly, with more than one salmon per line.

Table 26. 2016-2017 Sport Salmon Inventory of Catch Record Cards Received

Response Type	With Catch	No catch	Total Reports	Number of Salmon	Catch per Card
Prior to reminder	1,201	3,731	4,932	3,890	0.79
After 1st reminder postcard	6,709	24,237	30,946	27,782	0.90
After 2nd reminder postcard	1,035	6,907	7,942	3,639	0.46
Total	8,945	34,875	43,820	35,311	0.81

Sturgeon





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. 2016-2017 Sport Sturgeon Catch, by Area and Month

COLUMBIA RIVER SYSTEMS															
Catch Area	Species	2016										2017			Total
		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
Columbia R 05: Bonneville to The Dalles Dam	White			111								12	16	23	162
Columbia R 06: The Dalles to John Day Dam	White													4	4
Columbia R 07: John Day to McNary Dam	White	63	111									4		40	218
Columbia R 08: McNary Dam - Hwy 395 Bridge in Pasco	White			38	9										47
Columbia R 09: Hwy 395 Bridge to old Hanford townsite	White				12										12
Columbia R 09: I-182 Bridge to old Hanford townsite	White	22	15	8	37										82
Columbia R 09: Old Hanford townsite to Priest Rapids Dam	White	7	44	7	44								15	22	139
Columbia R 10: Priest Rapids to Wanapum Dam	White				23										23
Little White Salmon River & Drano Lake	White			12								23			35
Snake R 1: below Ice Harbor Dam	White		12	12											24
Total	White	92	182	188	125							39	31	89	746
STATEWIDE TOTALS															
Statewide Totals	White	92	182	188	125							39	31	89	746

Table 28. 2016-2017 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	1,346	19,238	7.0	9	0.01
Asotin	2,007	22,306	9.0	26	0.01
Benton	16,966	193,686	8.8	168	0.01
Chelan	7,026	76,338	9.2	17	0.00
Clallam	9,192	74,570	12.3		
Clark	37,007	467,018	7.9	133	0.00
Columbia	506	3,938	12.8		
Cowlitz	18,036	105,160	17.2	9	0.00
Douglas	3,282	41,327	7.9	9	0.00
Ferry	276	7,614	3.6		
Franklin	7,308	90,160	8.1	35	0.00
Garfield	328	2,247	14.6		
Grant	5,013	93,546	5.4		
Grays Harbor	9,857	71,628	13.8	9	0.00
Island	9,138	82,636	11.1		
Jefferson	3,573	31,139	11.5		
King	82,411	2,149,970	3.8	17	0.00
Kitsap	18,883	264,811	7.1		
Kittitas	2,909	44,866	6.5	17	0.01
Klickitat	2,933	21,301	13.8	9	0.00
Lewis	10,273	77,066	13.3	17	0.00
Lincoln	706	10,350	6.8		
Mason	5,705	62,198	9.2		
Okanogan	3,075	41,554	7.4		
Pacific	3,820	21,249	18.0		
Pend Oreille	461	13,123	3.5		
Pierce	52,510	861,312	6.1	17	0.00
San Juan	2,105	16,339	12.9		
Skagit	14,646	123,681	11.8		
Skamania	1,238	11,510	10.8		
Snohomish	51,743	787,620	6.6		
Spokane	13,340	499,072	2.7	9	0.00
Stevens	1,444	44,439	3.2		
Thurston	19,836	275,222	7.2	17	0.00
Wahkiakum	1,108	4,139	26.8		
Walla Walla	4,403	60,340	7.3	17	0.00
Whatcom	16,140	216,800	7.4		
Whitman	1,730	48,851	3.5		
Yakima	15,745	249,636	6.3	115	0.01
Unknown WA	849				
Washington Total	458,874	7,288,000	6.3	650	0.00
Other State Total	39,467			96	0.00
Canada	1,270				
Other	378				
Grand Total	499,989			746	0.00

Note: The figures do not accurately multiply across because of the bias adjustment factor and rounding of numbers.
 Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2016.
 Source: Population Division, U.S. Census Bureau. Release Date: June 2017

Table 29. 2016-2017 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	499,296	499,296	99.9%	99.9%	0	0	0.0%	0.0%
1	640	499,936	0.1%	100.0%	640	640	85.8%	85.8%
2	53	499,989	0.0%	100.0%	106	746	14.2%	100.0%
Total	499,989		100.0%		746		100.0%	

Table 30. 2016-2017 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	9	7,407	7,416	10	0.001
After 1st reminder postcard	56	30,942	30,998	60	0.002
After 2nd reminder postcard	14	5,394	5,408	15	0.003
Total	79	43,743	43,822	85	0.002

Steelhead

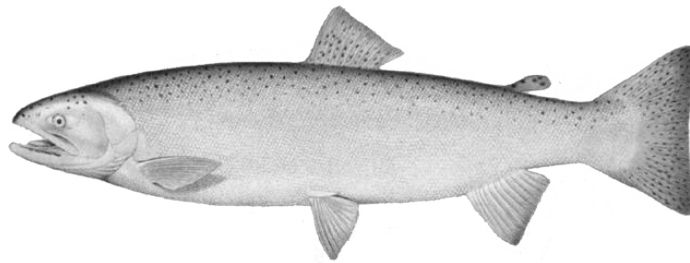


Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																		
System	River	Run	Mark Type	2016								2017			Total			
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar		
Chehalis R. System	Chehalis R. above Black R.	W	Marked	2									17	87	100	58	264	
	Chehalis R. below Black R.	S	Marked					15	5									20
		W	Marked											12	121	58	25	216
	Chehalis River, So. Fork	W	Marked									8	4		17		29	
	Cloquallam Creek	S	Marked			2		2									4	
	Newaukum River	W	Marked									8	8		25		41	
	Satsop River	S	Marked			2	7			7	7							23
		W	Marked										4	37	237	333	142	753
	Satsop River, West Fork	S	Marked						2									2
		W	Marked												21	21		42
	Skookumchuck River	S	Marked				5	7										12
		W	Marked			37								29	125	383	1,033	1,607
	Van Winkle Creek	S	Marked			2	7	2	2									13
		W	Marked									4	21		37			62
	Wishkah River	W	Marked									4	4		4	4		16
Wynoochee River	S	Marked			260	451	275	216	10								1,212	
	W	Marked									33	337		783	721	204	2,078	
Chehalis R. System Totals	S	Marked			266	470	301	232	17								1,286	
	W	Marked			39							61	469	1,415	1,662	1,462	5,108	
Copalis R. System	Copalis River	W	Marked										4	8	12		24	
Hoh R. System	Hoh River above Oxbow Launch	S	Marked					15									15	
		W	Marked								5	10		40	30	65	150	
	Hoh River below Oxbow Launch	S	Marked						12	9								21
		W	Marked			5								20	70	10	10	115
			Unmarked			40												
	Total			45										20	70	10	10	155
Hoh River, So. Fork	W	Marked											5	5			10	

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																
System	River	Run	Mark Type	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Hoh R. System (continued)	Hoh R. System Totals	S	Marked						27	9					36	
			Unmarked	5							5	35	115	40	75	275
		W	Marked	40												40
			Total	45								5	35	115	40	75
Hoquiam R. System	Hoquiam River	W	Marked										4		4	
Humptulips R. System	Humptulips River	S	Marked			42	124	48	48	48					310	
		W	Marked								37	591	335	91	21	1,075
	Humptulips River, E. Fork	S	Marked			6										6
		W	Marked											21	4	25
	Humptulips River, W. Fork	W	Marked									8	4		12	
	Stevens Creek	W	Marked									120	70	21	211	
	Humptulips R. System Totals	S	Marked			48	124	48	48	48						316
W		Marked									37	719	409	133	25	1,323
Joe Creek System	Joe Creek	W	Marked											4	4	
Kalaloch Cr. System	Kalaloch Creek	W	Marked									4			4	
Marine Water	Area 1: Col R - Ledbetter	S	Marked		5		27	5	5	9					51	
		W	Marked								8				8	
	Area 2-1: Willapa Bay	W	Marked									8	12		20	
	Marine Water Totals	S	Marked		5		27	5	5	9					51	
		W	Marked									8	8	12		28
Marine Water	Area 2: Westport	S	Marked							9					9	
		W	Marked	4											4	
	Area 2-2: Grays Harbor	S	Marked				9								9	
		W	Marked									8			8	
	Area 4: Cape Flattery	S	Marked		5					9					14	
Marine Water	Marine Water Totals	S	Marked		5		9			18					32	
		W	Marked	4								8			12	

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																	
System	River	Run	Mark Type	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Moclips R. System	Moclips River	W	Marked										4				4
Naselle R. System	Naselle River	S	Marked						2								2
		W	Marked								16	290	98	10	5	419	
	Salmon Creek (Pacific Co.)	S	Marked			2	7										9
		W	Marked											5	10		15
	Naselle R. System Totals	S	Marked			2	7		2								11
	W	Marked									16	290	103	20	5	434	
Nemah R. System	Nemah River	S	Marked						5								5
		W	Marked											4	8		12
North R. System	North River	W	Marked											29	4		33
	Smith Creek (Pacific Co.)	W	Marked									8		16			24
	North R. System Totals	W	Marked									8		45	4		57
Ozette R. System	Ozette River	S	Marked					5									5
Palix R. System	Niawiakum River	S	Marked								5						5
	Palix River	W	Marked													4	4
	Palix R. System Totals	S	Marked									5					5
		W	Marked													4	4
Queets R. System	Clearwater River	W	Marked					19						9		23	51
			Unmarked					5									5
			Total					24						9		23	56
	Queets River	S	Marked				5		2	5							12
		W	Marked				9					159		380	52	9	609
	Salmon River (Jefferson Co.)	W	Marked									5	94	80	38		217
Queets R. System (continued)	Queets R. System Totals	S	Marked			5		2	5							12	
			Marked			28					5	253	469	90	32	877	
		W	Unmarked			5											5
			Total			33							5	253	469	90	32

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																	
System	River	Run	Mark Type	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Quillayute R. System	Bogachiel River	S	Marked				7	2	5						14		
		W	Marked	96							66	747	175	60	36	1,180	
			Unmarked	12												12	
			Total	108							66	747	175	60	36	1,192	
	Calawah River	S	Marked			37	34	34							105		
		W	Marked	6							139	651	187	24	6	1,013	
	Dickey River (Clallam Co.)	W	Marked											6	6		
	Quillayute River	W	Marked									66			66		
	Sol Duc River	W	Marked	6									12	12	36	12	78
			Unmarked	24											6	30	
			Total	30									12	12	42	12	108
	Quillayute R. System Totals	S	Marked			37	41	36	5							119	
W			Marked	108							205	1,476	374	120	60	2,343	
Unmarked			36											6	42		
		Total	144							205	1,476	374	126	60	2,385		
Quinault R. System	Cook Creek	W	Marked									4			4		
	Quinault R, Upper (above L. Quinault)	S	Marked							5					5		
		W	Marked										8	4	8	20	
			Unmarked	16												16	
			Total	16										8	4	8	36
	Quinault R. System Totals	S	Marked								5					5	
W			Marked									4	8	4	8	24	
Unmarked			16												16		
		Total	16									4	8	4	8	40	
Willapa R. System	Willapa River	W	Marked									193	200	17	31	441	
Coastal Rivers/Streams and Marine Catch Area Totals		S	Marked		10	358	678	397	329	111						1,883	
			Total		10	358	678	397	329	111						1,883	
		W	Marked	184								341	3,471	3,166	2,110	1,706	10,978
			Unmarked	97											6		103
			Total	281								341	3,471	3,166	2,116	1,706	11,081

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COAST COLUMBIA RIVER MAINSTEM																	
System	River	Run	Mark Type	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Abernathy Cr. System	Abernathy Creek	W	Marked										5				5
Coal Cr. System	Coal Creek (Cowlitz Co.)	S	Marked					2									2
Columbia R. Mainstem	Columbia R 01: Buoy 10 to Tongue Pt.-Rocky Pt.	S	Marked			16	8	4	16	4							48
	Columbia R 02: Tongue Pt. Rocky Pt. to Longview Br.	S	Marked	453	1,298	1,348	358	53	10								3,520
		W	Marked	16													
	Columbia R 03: Longview Br. to I-5 Br.	S	Marked		37	112	409	208	76	8							850
		W	Marked	7							14	5				6	32
	Columbia R 04: I-5 Br. to Bonneville Dam	S	Marked			43	165	113	47	16							384
		W	Marked	1												5	6
	Columbia R 05: Bonneville to The Dalles Dam	S	Marked	4			106	223	67	31						8	439
	Columbia R 06: The Dalles to John Day Dam	S	Marked				8	16	82	31	24	12		20	20		213
	Columbia R 07: John Day to McNary Dam	S	Marked	8			8	12	55	110	106	39		20	24	12	394
	Columbia R 08: McNary Dam - Hwy 395 Bridge @ Pasco	S	Marked				4		132	445	189	42		66	13	27	918
	Columbia R 09: Hwy 395 Bridge to I-182 Bridge	S	Marked								16						16
Columbia R 09: I-182 Bridge to old Hanford townsite	S	Marked	39					8	108	92	54		25	49	79	454	
Columbia R 09: Old Hanford townsite to Priest Rapids Dam	S	Marked								4						4	

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL COLUMBIA RIVER AND TROUT AREAS																	
System	River	Run	Mark Type	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Columbia R. Mainstem (continued)	Columbia R 13: Rocky Reach to Wells Dam	S	Marked	4											4		
	Columbia R. Mainstem Totals	S	Marked	55	490	1,469	2,056	934	536	767	427	147	131	106	126	7,244	
		W	Marked	24							14	5			11	54	
Cowlitz R. System	Blue Creek (Lewis Co.)	S	Marked				21	17	39	27						104	
		W	Marked	5							3	5				13	
	Cispus River	W	Marked								4					4	
	Coweeman River	W	Marked								22	51	40	59	44	216	
	Cowlitz R. above Cowlitz Falls Dam	S	Marked		4		4									8	
		W	Marked	4												4	
	Cowlitz R. below Mayfield Dam	S	Marked		707	2,826	8,538	6,270	2,597	1,411						22,349	
		W	Marked	5,092								125	88	134	327	2,375	8,141
	Cowlitz R. between Mayfield & Cowlitz Falls Dams	S	Marked			4	12	23	8	8						55	
		W	Marked	4											7	18	29
	Green River (Cowlitz Co.) above Toutle Hatchery	S	Marked			27	8	15								50	
		W	Marked												11	11	
	Green River (Cowlitz Co.) below Toutle Hatchery	S	Marked		4		4	4								12	
	Olequa Creek (Cowlitz Co.)	S	Marked							4						4	
	Tilton River	S	Marked							4						4	
		W	Marked												4	4	
	Toutle River	S	Marked							8						8	
	Toutle River, No. Fork	S	Marked				4	19	15							38	
	Toutle River, So. Fork	S	Marked		27	350	284	108	169	12						950	
		W	Marked										4		4	4	12
Cowlitz R. System Totals	S	Marked		742	3,207	8,854	6,439	2,805	1,431						23,478		
	W	Marked	5,100								151	143	174	401	2,452	8,421	

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COAST COLUMBER RIVER AND RIVER BASINS																	
System	River	Run	Mark Type	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Elochoman R. System	Elochoman River above Foster Rd Bridge	W	Marked										47	18	3	68	
	Elochoman River below Foster Rd Bridge	W	Marked										21	5		26	
	Elochoman R. System Totals	W	Marked										68	23	3	94	
Germany Cr. System	Germany Creek	W	Marked	3											5	8	
Grande Ronde R. System	Grande Ronde River	S	Marked	5				5	20	320	325	5		135	235	1,050	
Grays R. System	Grays River above Barr Rd Bridge	W	Marked										13	37	5	55	
	Grays River, West Fork	W	Marked										55	3		58	
	Grays R. System Totals	W	Marked										68	40	5	113	
Kalama R. System	Kalama River above Kalama Falls Hatchery	S	Marked	12	4	8	42	54	38	4	4	19	12	4		201	
	Kalama River below Modrow Bridge	S	Marked		104	107	307	100	73	12						703	
		W	Marked	54								4	32	18	32	7	147
	Kalama River between Modrow Bridge and Kalama Falls Hatchery	S	Marked		88	211	319	96	238	19							971
		W	Marked	97								14	40	43	22	54	270
Kalama R. System Totals	S	Marked	12	196	326	668	250	349	35	4	19	12	4		1,875		
	W	Marked	151								18	72	61	54	61	417	
Klickitat R. System	Klickitat River above Fishway 5	S	Marked			311	432	327	319	97	28					1,514	
	Klickitat River below Fishway 5	S	Marked	8	40	28	88	76	140	44	8			16		448	
	Klickitat R. System Totals	S	Marked	8	40	339	520	403	459	141	36			16		1,962	

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND RIVER BASINS																		
System	River	Run	Mark Type	2016									2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
Lewis R. System	Cedar Creek (Clark Co.)	S	Marked					3									3	
	Lewis River (below E. Fork)	S	Marked		3	25	120	62	19								229	
		W	Marked									5	33	5			43	
	Lewis River, E. Fork	S	Marked			3				6							9	
		W	Marked										28	9	5	5	47	
	Lewis River, No. Fork	S	Marked		19	268	1,031	994	241	71							2,624	
		W	Marked		14								9	103	14	14	154	
Lewis R. System Totals	S	Marked		22	296	1,151	1,059	266	71							2,865		
	W	Marked		14								14	164	28	19	5	244	
Little White Salmon R. Sys.	Little White Salmon River & Drano Lake	S	Marked	4	35	146	1,195	3,119	1,704	112					4		6,319	
Mill Cr. (Lewis Co.)	Mill Creek (Lewis Co.)	S	Marked			8	2										10	
Rock Cr. System (Skamania)	Rock Creek (Skamania Co.)	W	Marked										5		11		16	
Salmon Cr. System (Clark)	Salmon Creek (Clark Co.)	W	Marked										3	18	16	3	40	
Skamokawa Cr. System	Skamokawa Creek	W	Marked											5			5	
Snake R. Mainstem	Snake R 1: below Ice Harbor Dam	S	Marked							3	42	14	35				94	
	Snake R 2: Ice Harbor to Lower Monumental Dam	S	Marked					7	512	1,011	312	142			31	31	3	2,049
	Snake R 3: Lower Monumental to Little Goose Dam	S	Marked				10	7	332	409	83	83			10	7	48	989
	Snake R 4: Little Goose to Lower Granite Dam	S	Marked						3	59	121	76	48		21	28	3	359

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL LUMBER RIVER AND RIVER DELTA AREAS																
System	River	Run	Mark Type	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Snake R. Mainstem (continued)	Snake R 5: Lower Granite Dam to Interstate Bridge, Clarkston	S	Marked					10	149	357	561	280	55	28		1,440
	Snake R 6: upstream of the Interstate Bridge, Clarkston	S	Marked			7	7	35	142	575	260	52	38	21		1,137
	Snake R. Mainstem Totals	S	Marked			7	17	62	1,197	2,515	1,306	640	155	115	54	6,068
Tucannon R. System	Tucannon River	S	Marked							4	2	6			2	14
Walla Walla R. System	Touchet River	S	Marked									2		8	10	20
	Walla Walla River	S	Marked							29	8	4				41
	Walla Walla R. System Totals	S	Marked							29	8	6		8	10	61
Washougal R. System	Washougal River above County Line Access	S	Marked							6						6
		W	Marked									58	18		4	80
	Washougal River below County Line Access	S	Marked			57	283	249	40	11	17					657
		W	Marked									4	138	40	27	13
	Washougal River, West Fork	S	Marked			17	17	6	17	40						97
		W	Marked									13		9	9	
	Washougal R. System Totals	S	Marked			57	300	266	46	28	63					760
W		Marked									17	196	67	36	17	333
White Salmon R. System	Big White Salmon River	S	Marked			8	77	61	69	15					230	
		W	Marked								13					13
Wind R. System	Wind River above Shipherd Falls	S	Marked		2										2	
	Wind River below Shipherd Falls	S	Marked		2	2	8	98	48				2		160	
	Wind R. System Totals	S	Marked		4	2	8	98	48				2		162	

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COAST COLUMBIAN RIVER SYSTEMS AND MARINE CATCH AREAS																	
System	River	Run	Mark Type	2016								2017			Total		
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
Columbia River and Tributary System Totals (All non-Boldt)		S	Marked	84	1,586	6,108	14,835	12,495	7,520	5,530	2,108	823	320	368	427	52,204	
			Total	84	1,586	6,108	14,835	12,495	7,520	5,530	2,108	823	320	368	427	52,204	
		W	Marked	5,297								233	754	420	526	2,546	9,776
			Total	5,297								233	754	420	526	2,546	9,776

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS															
System	River	Run	Mark Type	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Marine Water	Area 9: Admiralty Inlet	S	Marked			5									5
		W	Marked	5									5		10
Deep Cr. System (Clallam)	Deep Creek (Clallam Co.)	W	Marked								5				5
Dungeness R. System	Dungeness River	W	Marked								5				5
Green-Duwamish R. Sys	Green (Duwamish River) (King Co.)	S	Marked			27	38	38		5					108
		W	Marked							5		5			10
Hoko R. System	Hoko River	W	Marked									114	10	5	129
Lyre R. System	Lyre River	W	Marked										5		5
Puyallup R. System	White (Stuck) River	W	Marked										5		5
Pysht R. System	Pysht River	W	Marked									21			21
Sekiu R. System	Sekiu River	S	Marked					5							5
		W	Marked									5			5

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS															
System	River	Run	Mark Type	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Skagit R. System	Cascade River	S	Marked						5						5
	Sauk River	W	Marked									10			10
	Skagit River	S	Marked				14								14
		W	Marked										13		13
	Skagit R. System Totals	S	Marked				14		5						19
	W	Marked										10	13	23	
Snohomish R. System	Pilchuck River (Snohomish System)	W	Marked										3	3	
	Raging River	S	Marked				3							3	
	Skykomish River	S	Marked		3	213	481	116	74	119					1,006
		W	Marked								66	461	123	22	672
	Skykomish River, No. Fork	S	Marked				6		3	3					12
		W	Marked										3		3
	Snohomish River	S	Marked			16	6								22
		W	Marked									3	16		19
	Tokol Creek	W	Marked										6		6
	Wallace River	S	Marked							6					6
W		Marked								57	208	28	19	312	
Snohomish R. System Totals	S	Marked		3	229	496	116	77	128					1,049	
	W	Marked									126	683	160	41	1,010
Stillaguamish R. System	Stillaguamish R, No. Fork	W	Marked								21			21	
	Stillaguamish R, So. Fork	W	Marked								5			5	
	Stillaguamish River	W	Marked									5		5	
	Stillaguamish R. System Totals	W	Marked								26	5		31	
Puget Sound, Strait of Juan de Fuca River Systems and Marine Catch Area Totals (All are Boldt Case Areas)	S	Marked		3	261	548	159	82	133					1,186	
		Total		3	261	548	159	82	133					1,186	
	W	Marked		5							157	853	203	46	1,264
		Total		5							157	853	203	46	1,264

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS															
System	River	Run	Mark Type	2016								2017			Total
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
Unknown Area Totals		S	Marked		11		44	121	77	44					297
			Total		11		44	121	77	44					297
		W	Marked								47	122	56	19	244
			Total								47	122	56	19	244

Table 31. 2016-2017 Steelhead Sport Catch, by Area and Month (continued)

COASTAL RIVERS AND MARINE CATCH AREAS																
System	River	Run	Mark Type	2016								2017			Total	
				Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar
Statewide Totals		S	Marked	84	1,610	6,727	16,105	13,172	8,008	5,818	2,108	823	320	368	427	55,570
			Marked	5,486							778	5,200	3,845	2,701	4,252	22,262
		W	Unmarked	97											6	103
			Total	5,583								778	5,200	3,845	2,707	4,252
		Grand Total		5,667	1,610	6,727	16,105	13,172	8,008	5,818	2,886	6,023	4,165	3,075	4,679	77,935

Table 32. 2016-2017 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	1,346	19,238	7.0	121	0.09
Asotin	2,007	22,306	9.0	1,021	0.51
Benton	16,966	193,686	8.8	2,273	0.13
Chelan	7,026	76,338	9.2	88	0.01
Clallam	9,192	74,570	12.3	1,889	0.21
Clark	37,007	467,018	7.9	7,809	0.21
Columbia	506	3,938	12.8	351	0.69
Cowlitz	18,036	105,160	17.2	6,381	0.35
Douglas	3,282	41,327	7.9	33	0.01
Ferry	276	7,614	3.6		
Franklin	7,308	90,160	8.1	1,670	0.23
Garfield	328	2,247	14.6	99	0.30
Grant	5,013	93,546	5.4	286	0.06
Grays Harbor	9,857	71,628	13.8	2,746	0.28
Island	9,138	82,636	11.1	187	0.02
Jefferson	3,573	31,139	11.5	88	0.02
King	82,411	2,149,970	3.8	12,235	0.15
Kitsap	18,883	264,811	7.1	1,395	0.07
Kittitas	2,909	44,866	6.5	66	0.02
Klickitat	2,933	21,301	13.8	1,121	0.38
Lewis	10,273	77,066	13.3	4,832	0.47
Lincoln	706	10,350	6.8	33	0.05
Mason	5,705	62,198	9.2	967	0.17
Okanogan	3,075	41,554	7.4	33	0.01
Pacific	3,820	21,249	18.0	395	0.10
Pend Oreille	461	13,123	3.5	33	0.07
Pierce	52,510	861,312	6.1	8,412	0.16
San Juan	2,105	16,339	12.9		
Skagit	14,646	123,681	11.8	143	0.01
Skamania	1,238	11,510	10.8	494	0.40
Snohomish	51,743	787,620	6.6	3,635	0.07
Spokane	13,340	499,072	2.7	1,548	0.12
Stevens	1,444	44,439	3.2	88	0.06
Thurston	19,836	275,222	7.2	4,075	0.21
Wahkiakum	1,108	4,139	26.8	560	0.51
Walla Walla	4,403	60,340	7.3	945	0.21
Whatcom	16,140	216,800	7.4	308	0.02
Whitman	1,730	48,851	3.5	428	0.25
Yakima	15,745	249,636	6.3	4,415	0.28
Unknown WA	849			99	0.12
Washington Total	458,874	7,288,000	6.3	71,302	0.16
Other State Total	39,467			6,568	0.17
Canada	1,270			55	0.04
Other	378			11	0.03
Grand Total	499,989			77,936	0.16

Source: Table 1: Annual Estimates of the Resident Population for Counties of Washington: April 1, 2010 to July 1, 2016.
 Source: Population Division, U.S. Census Bureau. Release Date: June 2017

Table 33. 2016-2017 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	476,914	476,914	95.4%	95.4%	0	0	0.0%	0.0%
1	10,416	487,330	2.1%	97.5%	10,416	10,416	13.4%	13.4%
2	4,610	491,940	0.9%	98.4%	9,220	19,636	11.8%	25.2%
3	2,272	494,212	0.5%	98.8%	6,816	26,452	8.8%	33.9%
4	1,460	495,672	0.3%	99.1%	5,840	32,292	7.5%	41.4%
5	867	496,539	0.2%	99.3%	4,335	36,627	5.6%	47.0%
6	571	497,110	0.1%	99.4%	3,426	40,053	4.4%	51.4%
7	582	497,692	0.1%	99.5%	4,074	44,127	5.2%	56.6%
8	450	498,142	0.1%	99.6%	3,600	47,727	4.6%	61.2%
9	263	498,405	0.1%	99.7%	2,367	50,094	3.0%	64.3%
10	253	498,658	0.1%	99.7%	2,530	52,624	3.3%	67.5%
11	132	498,790	0.0%	99.8%	1,452	54,076	1.9%	69.4%
12	110	498,900	0.0%	99.8%	1,320	55,396	1.7%	71.1%
13	132	499,032	0.0%	99.8%	1,716	57,112	2.2%	73.3%
14	121	499,153	0.0%	99.8%	1,694	58,806	2.2%	75.5%
15	44	499,197	0.0%	99.8%	660	59,466	0.9%	76.3%
16	55	499,252	0.0%	99.9%	880	60,346	1.1%	77.4%
17	77	499,329	0.0%	99.9%	1,309	61,655	1.7%	79.1%
18	44	499,373	0.0%	99.9%	792	62,447	1.0%	80.1%
19	33	499,406	0.0%	99.9%	627	63,074	0.8%	80.9%
20	44	499,450	0.0%	99.9%	880	63,954	1.1%	82.1%
21	99	499,549	0.0%	99.9%	2,079	66,033	2.7%	84.7%
22	44	499,593	0.0%	99.9%	968	67,001	1.2%	86.0%
23	66	499,659	0.0%	99.9%	1,518	68,519	2.0%	87.9%
24	33	499,692	0.0%	99.9%	792	69,311	1.0%	88.9%
25	44	499,736	0.0%	99.9%	1,100	70,411	1.4%	90.4%
26	22	499,758	0.0%	100.0%	572	70,983	0.7%	91.1%
28	11	499,769	0.0%	100.0%	308	71,291	0.4%	91.5%
29	22	499,791	0.0%	100.0%	638	71,929	0.8%	92.3%
30	154	499,945	0.0%	100.0%	4,620	76,549	5.9%	98.2%
31	33	499,978	0.0%	100.0%	1,023	77,572	1.3%	99.5%
33	11	499,989	0.0%	100.0%	363	77,935	0.5%	100.0%
Total	499,989		100.0%		77,935		100.0%	

Table 34. 2016-2017 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	120	4,946	5,066	304	0.06
After 1st reminder postcard	1,721	29,357	31,078	5,920	0.19
After 2nd reminder postcard	266	7,406	7,672	876	0.11
Total	2,107	41,709	43,816	7,100	0.16

Marine Fish

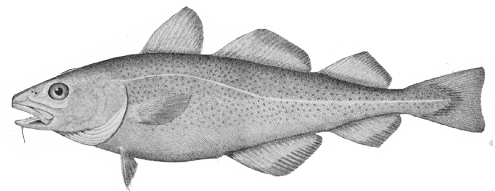
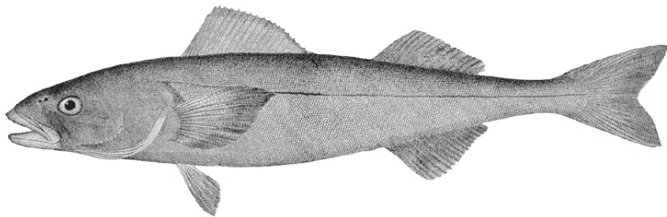
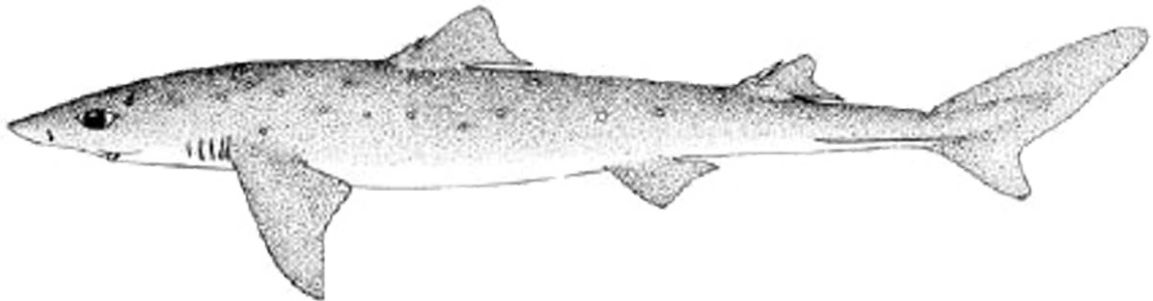
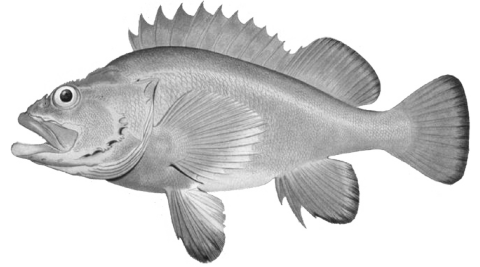
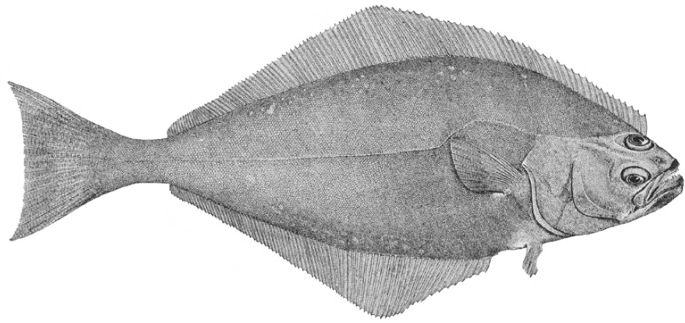


Table 35. 2016 Coastal Marine Fish Catch

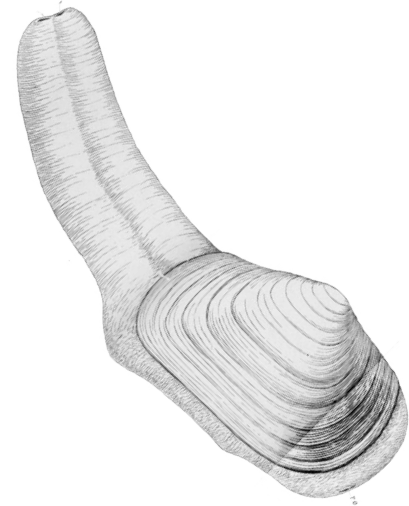
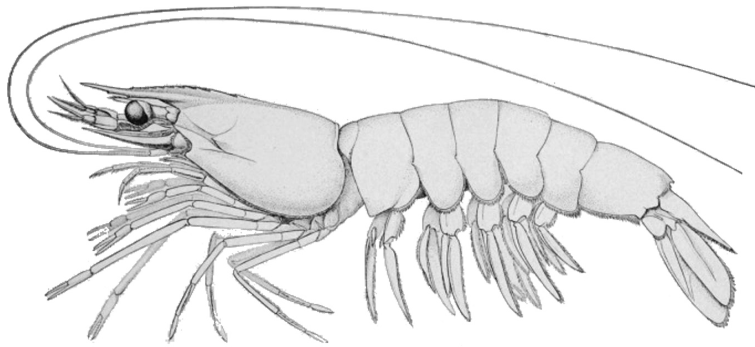
Species	Catch Area					Total
	Area 1 Ilwaco	Area 2 Westport	Area 3 La Push	Area 4 Neah Bay (Ocean)	Area 4B Neah Bay (Strait)	
Black Rockfish	19,144	190,797	36,678	45,253	18,455	310,327
Blue Rockfish	12	1,181	387	1,042	195	2,817
Yellowtail Rockfish	4,134	26,758	914	1,604	137	33,547
China Rockfish	3	20	288	1,484	163	1,958
Quillback Rockfish	2	470	57	360	125	1,014
Copper Rockfish	15	57	93	527	151	843
Canary Rockfish	172	22	23	7	25	249
Yelloweye Rockfish			2	3	7	12
Tiger Rockfish	29	16	26	77	2	150
Vermillion Rockfish	5	3	26	376	6	416
Boccaccio		14	19	49		82
Other Rockfish	74			10	5	89
Lingcod	1,782	27,928	6,816	9,791	4,022	50,339
Kelp Greenling	248	228	359	1,668	1,052	3,555
Pacific Cod	1	43	35	128	45	252
Cod (general)	1	15	1		9	26
Cabezon	171	138	356	987	222	1,874
Flatfish	56	7,086		527	504	8,173
Surf Perch	1,750	70	1		10	1,831
Albacore Tuna	35,226	12,191	63			47,480
Sharks and Skates	7	17		1		25
Miscellaneous	223	1,050	102	157	70	1,602

Table 36. Coastal Washington Recreational Pacific Halibut Catch 2000-2016

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	875	3,835	5,683

Table 37. 2016 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	3,166	1,884	222			45						5,317
Starry Flounder	2	55	258	38	333	3	12	77		118		896
Soles	144	144	164	76	2,382	2,390	995	7,002	4	85		13,386
Sanddabs		6	1	190	5,412	2,686	5,054	21,688	26	917		35,980
Misc. Flatfish	39	149	638		3,048	2,950	4,085	27,199		8,909		47,017
Sablefish												0
Lingcod	903	626	1,635	66	8	741	97	160		2		4,238
Greenlings	327	214	8,972	94	1	56	1	51				9,716
Copper Rockfish	49				2	5		51				107
Quillback Rockfish	3					5	1					9
Brown Rockfish							4					4
Black Rockfish	6,428											6,428
Blue Rockfish	4											4
Yellowtail Rockfish	1											1
Vermillion Rockfish												0
Canary Rockfish	11											11
China Rockfish												0
Other Rockfishes	83		85					171				339
Pacific Cod	2,199											2,199
Walleye Pollock												0
Pacific Tomcod												0
Pacific Hake												0
Cabezon	57	26	158	1	1	47	3	96				389
Other Sculpins	28		6	1	443	316	84	166				1,044
Perches					352	112	111	9				584
Misc.	1						5	102				108
Spiny Dogfish	16	41	38	190	66	1,201	200	2,945		243		4,940
Ratfish	4	2					3	2				11
Skates	2	14										16
Squid								36		22,344		22,380
Octopus			1				1	86				88
Total	13,467	3,161	12,178	656	12,048	10,557	10,656	59,841	30	32,618		155,212



Shellfish

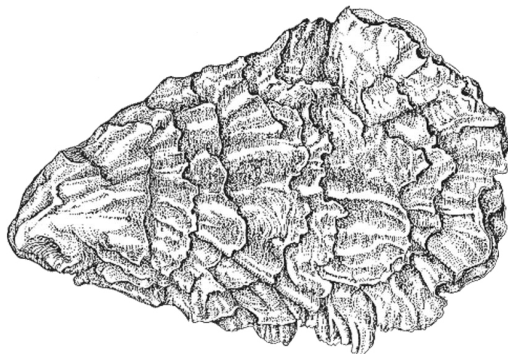
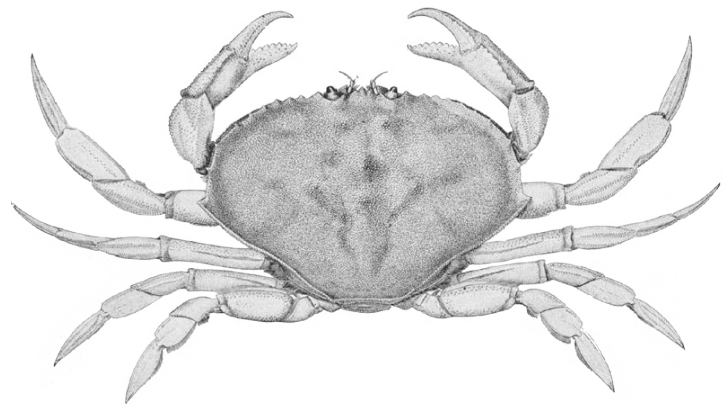
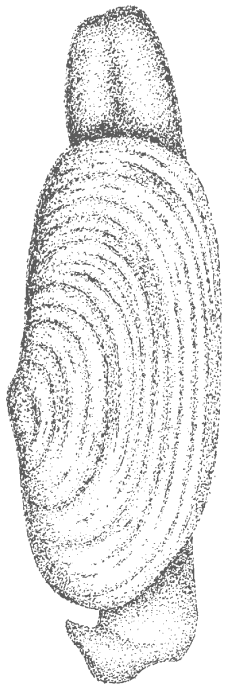


Table 38. 2016-2017 Seasonal Summary of Sport Razor Clam Digging on Ocean Beaches

Fall/Winter digs took place on evening tides between October 14, 2016 and March 26, 2017. Spring digs occurred on morning tides between March 27, 2016 and April 30, 2017. The Spring season ended early, on May 1, 2017 due to elevated levels of domoic acid in razor clam tissue.

Location	Fall / Winter			Spring		
	Digger Trips	Clams Per Trip	Number of Clams	Digger Trips	Clams Per Trip	Number of Clams
Long Beach ¹				77,778	20.0	1,555,113
Twin Harbors ²	39,857	12.8	508,579	23,036	14.1	325,507
Copalis	51,107	11.9	610,485	31,001	13.9	429,708
Mocrocks	32,330	10.3	333,616	25,627	13.8	353,012
Kalaloch	637	2.2	1,410			
Total	123,931	11.7	1,454,090	157,442	16.9	2,663,340

¹ Long Beach remained closed due to high levels of domoic acid in razor clam tissue.

² Numerous closures of the Twin Harbors fishery occurred through the season due to fluctuating levels of domoic acid in razor clam tissue.

Table 39. 2016 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							Total	Number of Oysters
			Manila	Littleneck	Butter	Cockle	Softshell	Horse	Geoduck		
6	Sequim Bay SP	1,505	89	2,700	334	2,181	54	638		5,998	15,894
7	Birch Bay SP	9,227	2,900	6,361	33,265	1,933	61	1,062		45,582	
	Drayton West	1,177	2,266	540	867	95	28	4		3,800	
8-1	West Penn Cove	14,517	415	2,409	58,822	9,401	35	1,231		72,313	
	Freeland CP	755	890	367	1,008	26	24	1		2,316	
9	Fort Flagler SP	3,110		4,997	11,523	690	9	2,982		20,202	
	Oak Bay CP	931	300	277	3,619	477	14	892	5	5,583	
	P. T. Ship Canal	3,371	133	723	24,407	1,224		3,089		29,575	
	Indian Island CP	917	1,095	153	1,615	106	4	415	54	3,441	
	Port Gamble	848	2,072	248	120	239		165		2,845	6,009
	Wolfe + Shine SP	10,738	11,283	2,923	17,269	7,055	376	8,577		47,483	51,660
12	Dabob Broad Spit	896	2,197	115	4	103		116	650	3,185	4,578
	E Dabob	221	605	2						607	1,504
	Quilcene Tidelands	2,765	4,363	1			6			4,370	17,820
	Dosewallips SP	21,835	37,609	431	10	106	162			38,319	208,502
	Pt. Whitney Tidelands	1,123	83	10	5	1				98	18,224
	Pt. Whitney Lagoon	671	1,075			1				1,076	
	Eagle Creek	2,475			45	376	9	254	7	691	33,391
	DNR-44A W Dewatto	1,003			132	110	3	22		266	12,714
	Rendsland Creek	409			5	52	2			58	5,828
	Scenic Beach SP	24			1	29				30	345
	Potlatch SP + DNR	6,910	6,026	2,435	2,718	3,895	42	548		15,666	63,455
	Belfair SP	5,966	7,655	6		8	10			7,678	69,868
	Duckabush	3,074	2,802	111	214	686	33	13	147	4,007	19,069
	Triton Cove Tidelands	971			47	18				65	14,864
	Lilliwaup SP	1,639			3,648	742	2	283		4,677	14,089
Twanoh SP	7,029	4,411	23	8	2,102	26			6,570	88,165	
13	North Bay	3,081	8,103	454	53	53	26	3		8,692	
	Penrose Pt SP	7,173	11,645	3,400	1,850	100	187	4,518	3,988	25,688	
Total		114,362	108,018	28,686	161,590	31,811	1,113	24,811	4,851	360,880	645,980

Table 40. 2016 Puget Sound and Hood Canal Sport Spot Shrimp Fishery

Area	Date	Angler Trips	Pounds	CPUE (lbs. per trip)
4, 5	May	130	1,300	10.0
6	May-August	2,987	12,209	4.1
6 (Discovery Bay)	May (4 days)	716	1,998	2.8
7	May-July	8,514	44,004	5.2
8-1 & 8-2	May (2 days)	3,584	19,198	5.4
9	May (2 days)	1,370	7,380	5.4
10	May (1 day)	1,729	10,890	6.3
11	May (1 day)	620	3,269	5.3
12	May (4 days)	19,262	84,750	4.4
13	May (4 days)	1386	4,892	3.5
Total		40,298	189,890	4.7

Table 41. 2016 Sport Dungeness Crab Catch (all gear types)

Marine Area and location		Summer Season (lb. of crab)	Fall/Winter Season (lb. of crab)
4	Neah Bay	1,377	43
5	Sekiu/Pillar Point	4,388	262
6	Port Angeles Harbor, Dungeness & Sequim Bays, Discovery Bay	185,834	40,197
7	Gulf of Georgia, North of San Juan Islands, Bellingham Bay, Samish Bay, San Juan Islands, Anacortes	498,670	61,165
8-1	Skagit Bay, North Saratoga Passage, Holmes Harbor	450,155	15,414
8-2	South Saratoga Passage, Port Susan, Port Gardner	435,912	24,532
9 ¹	Admiralty Inlet, Port Townsend Bay, Useless Bay	148,962	19,982
10	Seattle/Kingston, Port Orchard	140,239	9,804
11	Colvos Pass, East Pass	24,374	150
12, 9 ²	Port Ludlow/Port Gamble, Upper Hood Canal, Central Hood Canal, Lower Hood Canal	164,222	20,124
13	South Puget Sound	8,328	22
Total		2,062,461	191,695

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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