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The Washington State Sport Catch report was first published in 1967 by the former Department of Fisheries. The report originally provided salmon catch estimates which were based on data from catch record cards (punch cards). By 1991, catch record card data were collected for salmon, sturgeon and halibut and supplemented with field or creel survey data where and when possible to improve catch estimate accuracy. Over time the report expanded to include shellfish and marine fish estimates. Food fish (salmon, sturgeon, halibut, marine fish and shellfish) estimates are made on a calendar year basis from January 1 through December 31.

Since 1950, the former Department of Game (renamed Department of Wildlife in 1985) has published steelhead harvest reports based on catch record card data and creel surveys. Game fish (steelhead) estimates are summarized from May 1 of one year through April 30 of the next year. This is to better capture the results of steelhead "run years", which typically span two calendar years.

On March 1, 1994, the former Departments of Fisheries (WDF) and Wildlife (WDW) merged to form the Department of Fish and Wildlife (WDFW). This marks the third combined report covering both "food fish" and "game fish." Delayed due to budget and staffing constraints, the 1997 edition is being published in December of 1999.

Sport Licenses and Catch Record Cards

In 1997, the following licenses and catch record cards were required to fish in Washington:

- A **personal use food fish license** was required for resident anglers over age 14, and for all non-resident anglers, to fish for anadromous fish (except steelhead) and marine fish. This license was available in resident annual, resident senior (free, ages 70 and over), non-resident annual, three-consecutive-day, and one-day formats. In addition, a free **catch record card** was required of all anglers of all ages to fish for salmon, for halibut in Puget Sound and the Strait of Juan de Fuca, and for sturgeon in the Columbia River, Grays Harbor, Willapa Bay and all tributaries of these three systems.
- A game fish license was required for resident anglers over age 14, and for all non-resident anglers, to fish for game fish (warm water species such as bass, panfish, whitefish and trout). This license was available in annual, one-day and three-consecutive-day formats. Reduced-fee licenses were available for non-resident juveniles and resident seniors (ages 70 and older). A steelhead license was required in addition to the gamefish license for all those anglers over 14 who wished to fish for steelhead. A free catch record card was also required of anglers of all ages to fish for steelhead.

• A **personal use shellfish/seaweed license** was required for resident and non-resident harvesters over age 14. A non-resident reduced-fee three-consecutive day license and a reduced-fee annual license for resident seniors (ages 70 and over) was available. Unlike salmon, sturgeon and steelhead, catch record cards were not issued with shellfish licenses since field sampling and creel surveys were used to estimate total sport shellfish catch.

Table *I* shows license sales for 1996 and 1997, based on a direct count of sales. Tables *2*, *3* and *4* show the estimated number of salmon, sturgeon and steelhead catch record cards issued. Note that the number of catch record cards issued shown in these tables are estimated from the catch record card databases, therefore cannot be directly compared to the license sales number. These numbers cannot be compared since anglers under 14 and over 70 are required to obtain a catch record card but not a license. Also, not all dealers return their catch record card stubs, nor do all anglers return their catch record cards, therefore, correction factors are applied.

Methods

Sport harvest estimates are made in Washington State using various methods. These include catch record cards for: salmon and steelhead statewide, sturgeon in the Columbia River, Grays Harbor and Willapa Bay and halibut in Puget Sound and the Strait of Juan de Fuca. Estimates from catch records cards are available six months to one year after the end of the season. Creel and mail surveys are carried out for salmon, sturgeon, steelhead, halibut, and shellfish in areas where management requires more timely estimates. Creel surveys consist of checking anglers who are exiting the fishery and asking specific questions about catch and effort. The creel survey estimates for some species and areas are substituted for catch record card estimates (this is noted in the tables).

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.

Special Area Fisheries (SAF's)

Special area fisheries (SAF's) for salmon occur within a larger designated management unit to provide increased fishing opportunity. These areas often have separate seasons, bag limits and may or may not require caught fish to be released. Since SAF's are located in a small area within the designated management catch area, the catch estimates do not represent the larger area. Two SAF's for salmon occurred in 1997. The SAF's locations were: Tulalip Bay from August 1 - September 30, and area 5 from August 1 - September 15.

Ocean Quota vs True 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 1st and continuing through week 53 or 54 December 31st. 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 1997, the statistical month of January begins on January 1st and ends February 2nd and the statistical month of February starts on February 3rd and ends March 2nd. Since some data is reported using statistical months, as opposed to calendar months, some catch may be reported during what appears to be a closed period.

Salmon

Annual sport salmon catch estimates for 1964 through 1997 are shown in Table 5. A total of 295,666 salmon were caught in marine areas, plus an additional 98,519 salmon in freshwater. The marine totals by species for 1996, as shown in Table 6, were: 74,546 chinook; 178,387 coho; 5,838 chum; 36,607 pink; and 262 sockeye. Freshwater species breakdowns show: 34,240 chinook; 30,493 coho; 6,513 chum; 16,656 pink; 55 sockeye; 10,368 jacks (all species combined); and 194 unknown species.

Catch record cards are used to estimate sport salmon catch in marine and freshwater areas with some exceptions. In marine areas, creel survey estimates were substituted for the catch record card estimates in ocean areas 1-4 (excluding area 2.1 Willapa Bay and area 2.2 Grays Harbor), area 5 August 1-September 15 and area 8.2 August 1-September 30. Creel surveys were done in the SAF's and the coho retention fishery in area 5 and results are provided in Table 24. In freshwater areas, creel survey estimates were sustituted for the catch record card estimates in the Lower Columbia River February - October. All other estimates are from catch record cards.

Sturgeon

There are two species of sturgeon present in Washington state: the green sturgeon *Acipenser medirostris* and the white sturgeon *Acipenser transmontanus*. Both species are anadromous and spawn in large river systems. Green sturgeon spend most of their lives in the marine

environment and are not readily caught in Washington sport fisheries. They are not believed to spawn in any of the Washington river systems although they are seasonally abundant in Washington coastal bays and estuaries. White sturgeon migrate great distances in the ocean as well but, unlike green sturgeon, are able to complete their life cycle in freshwater. White sturgeon are readily caught in sport fisheries and are popular as a game fighting fish and are considered by many as gourmet fare. They are the largest freshwater fish in North America with historical accounts of individuals approaching 20 feet in length and 1 ton in weight. Sturgeon subsist on a variety of foods including Columbia River smelt, anchovies, lamprey eels, clams, shad, and salmon carcasses. They are known for their longevity with individuals sometimes living over 100 years. White sturgeon are also known for their delayed maturation with males reaching sexual maturity at about 15 years of age ($4\frac{1}{2}$ - 5 feet in length) and females at about 23 years of age (~6 feet in length). White sturgeon spawn throughout the Columbia River basin, although populations farther upstream are generally not as healthy as those living closer to the ocean. They spawn in the spring and early summer months in the mainstem Columbia River in areas where water velocities are highest. This reliance on high velocity, free-flowing river reaches for spawning is largely responsible for the decreased population abundance and productivity farther upstream in the Columbia River basin where hydroelectric development has most affected sturgeon populations.

The distribution of sturgeon harvest and the amount of restriction on sturgeon harvest within the Columbia River basin generally reflects the relative health and productivity of these sturgeon populations. Sturgeon harvest management relies on extensive research to provide an understanding of the population dynamics and the factors limiting productivity of specific sturgeon populations within the Columbia River. Abundance estimates and population simulation models are used to set long term sustainable harvest limits for the most heavily exploited populations. Management goals are based on allowing enough fish to survive harvest to replenish the older-aged spawning population. The most frequently used sport harvest management strategies are population-specific harvest quotas, slot limits, daily bag limits, and annual possession limits for those sturgeon populations that can sustain a harvest. Harvest management responsibilities in the Columbia River are jointly shared by the state of Oregon and the four Columbia River treaty tribes (Yakama, Umatilla, Warm Springs, and Nez Perce) in those river reaches where there is joint jurisdiction. Specifically, Washington and Oregon share management responsibility from the mouth of the Columbia River upstream to a point approximately 14 miles upstream of McNary Dam and, by policy directive, adopt concurrent regulations for fisheries in those areas. Washington, Oregon, and the four Columbia River treaty tribes coordinate sturgeon management in the three reservoirs between Bonneville and McNary dams through the Sturgeon Management Task Force, which is comprised of technical and policy representatives from each agency and tribe.

In 1997 Washington and Oregon adopted new statewide regulations and a new quota-based management strategy for the lower Columbia River downstream from Bonneville Dam. The tenets of the plan included a three year (1997-1999) allocation plan for lower Columbia sport and commercial sturgeon fisheries (80% of the allowable harvest allocated to sport fisheries and 20%

allocated to commercial fisheries) and new permanent regulations designed to keep harvest within long term sustainable limits, allow enough fish to survive harvest to build broodstock populations to optimal levels, and provide for maximum sport fishing opportunity within these biological constraints. A reduction of the maximum size limit from 66 to 60 inches was adopted statewide (for those areas where sturgeon harvest is allowed) to extend the numerical harvest annually while allowing more long term escapement to the protected broodstock population. This was desired in Washington and Oregon because of the increased effort observed in sturgeon fisheries. A greater numerical harvest allowed a greater opportunity for individual fishers to retain a sturgeon in the face of greater effort in the fishery without compromising future spawning and production. The other permanent regulation adopted statewide in Washington and Oregon was a one fish daily bag limit for sport fisheries in areas where harvest is allowed.

The white sturgeon population in the lower Columbia River downstream from Bonneville Dam is the healthiest in the species' range. Consequently, most of the sturgeon catch and effort in Washington waters occurs in this river reach. In 1997 Washington and Oregon managed for a catch quota of 53,840 white sturgeon in the lower Columbia sport fishery. Sport regulations for this fishery included a 42-60 inch legal size slot, a one fish daily bag limit allowing anglers to continue to catch and release after retaining their one sturgeon, and an annual bag limit of 10 sturgeon per angler. The actual combined white sturgeon catch for Washington and Oregon anglers in the lower Columbia fishery was 38,200. It was believed that high water conditions in the summer estuarial fishery affected the emergence of anchovies and other bait fish into the estuary and thus compromising sport fishing success. It was noted that a significantly greater proportion of the catch was of larger sized fish indicating good survival of sturgeon through the fisheries.

The three lowermost reservoirs in the Columbia River between Bonneville and McNary dams are intensively managed under the auspices of the Sturgeon Management Task Force (SMTF). Sport regulations in Bonneville Reservoir were the same as those in the lower Columbia River downstream from Bonneville Dam. Regulations were more prohibitive in areas upstream from The Dalles Dam where the legal size slot was 48-60 inches. In 1997 the SMTF set annual sport harvest guidelines for white sturgeon of 1,520 in Bonneville Reservoir, 200 in The Dalles Reservoir, and 560 in John Day Reservoir. Washington and Oregon attempted to manage for a stable fishery season that kept harvest within these guidelines with a sturgeon retention season of January 1- June 30. However, this season was ineffective in the two lowermost reservoirs and the states had to prohibit sturgeon retention from April 5- December 31 in Bonneville Reservoir and from May 5- December 31 in The Dalles Reservoir to stay within the prescribed guidelines. The season was extended to September 1 in John Day Reservoir and was therefore closed to sturgeon retention from September 2- December 31. The resulting harvest by reservoir for Washington and Oregon anglers in 1997 was 1,460, 180, and 460 white sturgeon in Bonneville, The Dalles, and John Day reservoirs, respectively.

The reservoir sport fisheries upstream from McNary Dam operated under the same regulations as The Dalles and John Day reservoirs (48-60 inches, 1 fish daily bag limit), with the exception of Lower Granite Reservoir on the Snake River and the Columbia River and its tributaries upstream from Priest Rapids Dam to the U.S./Canada border where sturgeon retention was closed year round.

Outside the Columbia River basin, there are relatively productive sturgeon fisheries in most of Washington's coastal bays and estuaries. Most notable are the sturgeon fisheries in Willapa Bay and Grays Harbor (including the Chehalis River system). The white sturgeon caught in Washington's coastal areas are thought to originate in the lower Columbia based on tag recoveries from those fisheries. Sport regulations for these fisheries match those in the lower Columbia.

Total sport sturgeon harvest for 1997, based on creel surveys and catch record card returns, was **23,253** fish. Of this total, **20,713** white sturgeon and **29** green sturgeon came from the Columbia River system (Table **29**). Another **276** white sturgeon were harvested in the Snake River up to Lower Granite Dam, above which all sturgeon were required to be released.

Other areas for which sturgeon harvest is reported are: Willapa Bay -1,270 white, 4 green and 15 unknown sturgeon; Grays Harbor -798 white, 105 green and 43 unknown sturgeon. For monthly catch information, see Table 29.

Steelhead

Steelhead harvest estimates are based on statewide catch record card returns and creel surveys for selected areas. Steelhead harvest is reported by "run year," unlike other sport statewide harvest presented in an annual format. For example, steelhead that make up the 1997 winter/spring spawning season enter Washington rivers as early as March or April of **1996**, but will not spawn until early 1997. Wild steelhead spawning continues into late May or even June. Some of the 1997/**98** fish will actually start their spawning run before the 1996/**97** fish have finished spawning. For record-keeping purposes, May 1 is used as the starting point for each year's run. Steelhead caught during May through October are treated statistically as "summer-run" fish. Steelhead caught November through April are recorded as "winter-run" fish unless they are caught above the Bonneville Dam in the Columbia River; where they are recorded as "summer-run" fish.

In Table 33, sport harvest of steelhead for 1997/98 is shown geographically by system and stream name. Monthly totals are given for hatchery (*marked* with adipose fin clip) and wild (*unmarked*) fish. This last designation is reliable only where 100% of the hatchery releases are marked. There occasionally are unmarked hatchery releases, usually from non-WDFW hatcheries. Please consult appropriate hatchery release records to confirm.

Marine Fish

Marine fish are those species commonly called "bottomfish" (though not all are necessarily caught on the bottom). This category includes all the rockfish (9 species are reported here); cabezon; lingcod and kelp greenling; Pacific halibut and other flatfish (sole, flounder, etc.); Pacific cod and other cod-like species (pollock, hake); sea perch (surf and pile); skates and rays; plus miscellaneous species.

Recreational ocean harvest of marine fish in catch areas 1-4, including halibut, is estimated from creel surveys. Table *37* shows the 1997 totals. These figures are compiled for the four defined marine fishing areas: Ilwaco (Columbia River mouth), Westport (Grays Harbor and Willapa Bay), La Push (Quillayute River mouth) and Neah Bay (just inside the Strait of Juan de Fuca).

The Puget Sound recreational harvest of marine fish, excluding halibut, is estimated using a statistical model that takes advantage of the previously documented relationship between sport salmon catch and effort, and marine fish catch and effort. These estimates, given in Table *38*, depend on the salmon catch record card estimates and the field survey sampling for catch per unit of effort for salmon and marine fish.

Sport catch of Pacific halibut in Puget Sound was estimated from halibut catch record cards. These figures can be found in Table *37*.

Shellfish

Recreational shellfish harvest is estimated based on creel and flight sampling by WDFW personnel. The sport crab pot fishery is surveyed only in odd years, and therefore included in this report only during odd years.

Table 40 shows razor clam sport harvest estimates for the following areas: Long Beach Peninsula, Twin Harbors/Grayland, Copalis, Mocrocks (Copalis north to Moclips), and Kalaloch (began in Fall 1995). Population sampling for razor clams showed a significant increase in the number of clams available for harvest providing more digging opportunities. The 1997 fall and winter season shows 89,000 digger trips yielding 903,000 clams, for an average of more than 9.9 clams per trip. The 1998 spring season produced an estimated 931,000 clams for 75,000 harvester trips, or 12.4 clams per trip.

Puget Sound recreational clam and oyster harvest estimates are shown in Table 41. Harvest totals for Manila and native littleneck clams, butter clams, cockles, softshell clams, horse clams, geoducks and oysters are shown for 27 areas. Estimates show 235,345 sport harvester trips gathered 691,239 total pounds of clams, and 1,080,642 oysters in 1997.

The Hood Canal sport shrimp fishery produced an estimated **89,870** pounds of shrimp for **19,280** pots. This yields an average of **4.66** pounds per pot. These estimates are shown in Table **42**.

The sport crab pot fishery in 23 Puget Sound areas is summarized in Table 43. A total of 484,030 pot days produced an estimated harvest of 469,290 dungeness crabs.

Sport Licenses

Time of License	1996			1997		
Type of License	Price	Number	Value ¹	Price	Number	Value
Resident Personal Use Foodfish (Ages 15-69)	\$8.00	299,526	\$1,837	\$8.00	233,708	\$1,870
Resident Senior Foodfish	\$3.00	15,600	\$47	\$3.00	18,211	\$55
Non-Resident Personal Use Foodfish (All Ages)	\$20.00	6,756	\$135	\$20.00	7,932	\$159
Three Consecutive Day Foodfish (Resident or Non-Resident)	\$5.00	107,002	\$535	\$5.00	98,251	\$491
Resident Gamefish (Ages 15-69; includes combination Hunt and Fish)	\$29.00 \$17.00	96,019 383,584	\$2,785 \$6,521	\$29.00 \$17.00	85,474 366,423	\$2,479 \$6,229
Resident Senior Gamefish	\$3.00	31,965	\$96	\$3.00	28,322	\$85
Resident, Three Consecutive Day Gamefish	\$9.00	12,645	\$114	\$9.00	12,598	\$113
Resident One-day Gamefish	\$3.00	25,069	\$75	\$3.00	25,564	\$77
Non-Resident Gamefish (Ages 15 and Older)	\$48.00	7,562	\$363	\$48.00	7,305	\$351
Non-Resident, Three Consecutive Day Gamefish	\$17.00	15,757	\$268	\$17.00	14,466	\$246
Non-Resident, One-day Gamefish	\$7.00	23,841	\$167	\$7.00	21,852	\$153
Resident and Non-resident Steelhead Permit (Adult Ages 15-69)	\$18.00	83,462	\$1,502	\$18.00	80,418	\$1,448
Resident and Non-Resident Steelhead Permit (Juvenile under 15)	\$6.00	5,931	\$36	\$6.00	6,241	\$37
Resident, Personal Use Shellfish (Ages 15-69)	\$5.00	209,815	\$1,050	\$5.00	193,684	\$968
Non-Resident, Personal Use Shellfish (All Ages)	\$20.00	4,556	\$91	\$20.00	4,684	\$94
Three Consecutive Day Shellfish (Resident or Non-Resident)	\$5.00	18,634	\$93	\$5.00	19,433	\$97
Resident Senior Shellfish (Ages 70 and Older)	\$3.00	15,619	\$47	\$3.00	13,326	\$40
Recreational Fisheries Puget Sound Enhancement Stamp	\$10.00	142,345	\$1,424	\$10.00	140,252	\$1,403
TOTAL	N/A	1,505,758	\$17,186	N/A	1,378,144	\$16,395

Table 1. Number and Value of Sport Personal Use Foodfish and Gamefish Licenses Sold in

new Salmon Catch Record Card obtained except for residents under 15 years of age.

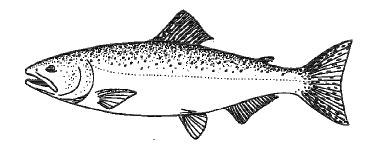
¹ Value in thousands.
 ² The Regional Fisheries Enhancement Account receives \$1.00 from each foodfish license sale.

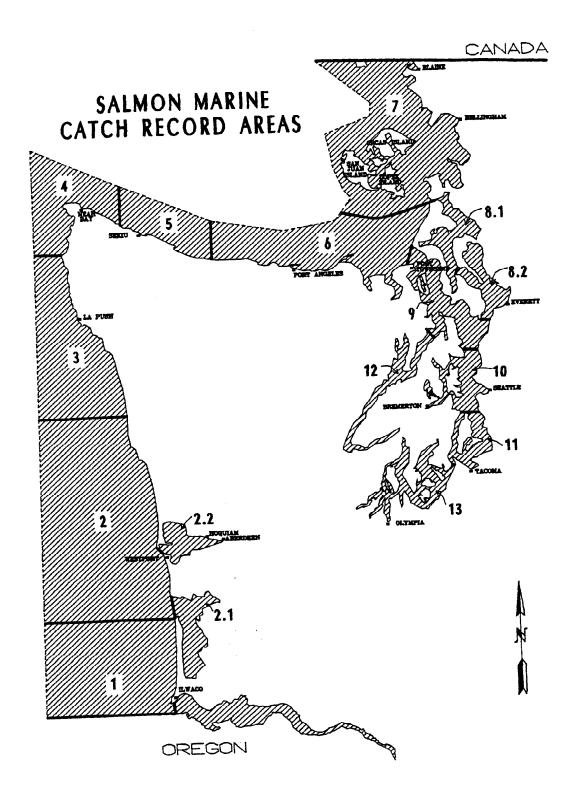
Table 2. Num	ber of Sport Salmon Catch Record Cards Issued 1965-1997
Year	Number of Catch Record Cards Issued
1965	387,875
1966	392,850
1967	472,225
1968	456,675
1969	471,525
1970	591,025
1971	541,600
1972	536,750
1973	568,825
1974	562,375
1975	576,075
1976	660,150
1977	641,050
1978	580,375
1979	487,875
1980	433,700
1981	463,561
1982	481,915
1983	481,025
1984	364,286
1985	403,523
1986	431,898
1987	475,459
1988	486,356
1989	509,534
1990	497,215
1991	489,394
1992	419,986
1993	447,986
1994	244,629
1995	416,707
1996	333,773
1997	331,511

Table 3. Num	Table 3. Number of Sport Sturgeon Catch Record Cards Issued 1988-1997		
Year	Number of Cards Issued		
1988	33,195		
1989	35,576		
1990	32,421		
1991	32,396		
1992	37,615		
1993	43,067		
1994	54,837		
1995	62,572		
1996	69,639		
1997	76,806		

Table 4. Number of	Sport Steelhead Catch Record Cards Issued 1948-1997
Year	Number of Catch Record Cards Issued
1948-49	40,000
1949-50	50,000
1950-51	50,000
1951-52	62,500
1952-53	77,500
1953-54	89,341
1954-55	90,392
1955-56	88,500
1956-57	85,350
1957-58	85,425
1958-59	84.461
1959-60	87,878
1960-61	93,350
1962	144,980
1963	151,692
1964	160,375
1965	171,400
1966	187,525
1967	202,666
1968	202,750
1969	200,050
1970	142,610
1971	145,647
1972	153,977
1973	165,671
1974	145,051
1975-76	missing
1976-77	missing
1977-78	missing
1978-79	130,000
1979-80	136,000
1980-81	139,500
1981-82	132,000
1982-83	100,000
1983-84	101,800
1984-85	133,400
1985-86	121,500
1986-87	100,500
1987-88	102,000
1988-89	108,182
1989-90	106,666
1990-91	98,362
1991-92	98,328
1992-93	98,933
1993-94	94,913
1994-95	87,093
1995-96	101,303
1996-97	92,858
1997-98	68,341

Salmon





Description of Salmon Catch Record Card Areas

1.	ILWACO	West of Megler-Astoria Bridge, 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 line from Leadbetter Point to Buoy 8 and then to Cape Shoalwater Light.	
2.2	GRAYS HARBOR	East of the true north-south line through Grays Harbor Channel Marker 13.	
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 & PILLAR POINT	From the 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.), Navigation Buoy BW "R" Smith Island , Point Colville, Langley Point, and West of the Initiative 77 Line fronting Deception Pass.	
7.	SAN JUAN ISLANDS	All marine waters north of the Trial Island Line described under Area 6 to the United States - Canadian boundary.	
8.1.	DECEPTION PASS, HOPE ISLAND	East of line from West Pt. on Whidbey Island to Reservation Head on Fidalgo Island through Deception Pass, south of railroad bridges at north end of Swinomish Channel, north of Hwy 535 Bridge between Camano Island and mainland, and west of line from East Pt. Light on Whidbey Island to light on Camano Island (Saratoga Pass Light #2 FI Red 4 Sec.).	
8.2.	PORT SUSAN/PORT GARDNER	East of line from East Pt. Light on Whidbey Island to light on Camano Island (Saratoga Pass Light #2 Fl Red 4 Sec.) and north of line from south tip Possession Pt. 110 degrees true to shipwreck on opposite shore.	
9.	ADMIRALTY INLET	All waters inside and south of Partridge Point - Point Wilson Line, south and west of a line from Possession Point 110 degrees true to the shipwreck, north of the Hood Canal Bridge, and north of the Apple Cove Point - Edwards Point line.	
10.	SEATTLE-BREMERTON AREA	From the Apple Cove Point - Edwards Point line to the line through the north tip of Vashon Island east - west.	
11.	TACOMA-VASHON ISLAND	From the north tip of Vashon Island to the Tacoma Narrows Bridge.	
12.	HOOD	All waters south of the Hood Canal Bridge.	
13.	SOUTH PUGET SOUND	All waters south of the Tacoma Narrows Bridge.	
FRESHWATER AREAS: RIVERS, STREAMS OR LAKES -Name of river, stream or lake, except for the Columbia			

RIVERS, STREAMS OR LAKES -Name of river, stream or lake, **except** for the **Columbia River**

BUOY 10 LOWER COLUMBIA MID-COLUMBIA UPPER COLUMBIA From Buoy 10 Line to Megler-Astoria Bridge From Megler-Astoria Bridge to Bonneville Dam From Bonneville Dam to McNary Dam Above McNary Dam

Year	Total	Freshwater	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8	Area 9	Area 10	Area 11	Area 12	Area 13
1964 1965	475,662 942,223	28,988 54,509	111,385 279,225	103,094 275,457	11,055 23,694	45,051 57,606	46,309 53,620	13,912 23,477	16,186 18,803	5,528 10,253	40,289 58,004	21,466 28,368	24,476 43,077	7,923 14,130	
1966	756,896	52,948	203,806	176,447	28,262	78,016	33,887	23,748	23,575	5,729	60,135	22,533	24,235	23,575	
1967	1,063,440	135,250	203,800 315,594	214,661	20,202 53,325	84,871	55,401	32,601	23,375 29,878	5,729 6,125	61,662	22,555 18,564	24,235 20,861	23,575 34,303	
1968	877,276	61,663	210,693	284,923	23,075	73,556	67,734	36,245	25,489	3,621	45,511	17,785	19,135	7,846	
1969	876,648	79,905	200,379	270,777	21,054	80,945	75,902	46,227	23,748	3,695	28,059	16,589	19,976	9,392	
1970	978,395	135,974	269,232	303,372	36,894	46,659	30,579	26,027	21,842	5,690	43,648	23,200	24,265	11,013	
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 1979	1,107,852 1,123,809	86,845 88,659	220,548 167,478	269,338 174,365	24,439 24,160	52,270 53,840	59,400 134,354	68,849 70,839	36,293 48,101	13,229 33,835	73,187 104,619	56,479 71,167	48,018 71,495	26,801 20,006	72,156 60,891
1980	852,879	105,461	158,883	163,748	19,146	29,500	39,587	70,033 52,663	24,457	18,432	60,072	52,128	57,751	17,138	53,913
1981	760,115	58.139	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
1981	760,115 749,995	91,849	142,879	151,301	9,857	30,003 42,716	55,900 67,611	33,870	21,826	9,940	49,853	42,602 49,727	42,175 51,975	8,672	50,545 47,135
1983	860,623	108,783	98,599	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	79,792	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	93,927	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	156,275	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	744,284	110,636	123,441	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	719,409	168,594	142,979	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	834,426	121,417	157,701	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	824,171	107,934	114,722	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	932,371	153,719	230,582	107,362	5,615	43,357	216,816	42,812	16,602	20,337	40,390	32,229	15,549	3,225	3,866
1992	573,102	90,032	86,754	71,684	2,332	25,906	108,876	30,894	12,515	15,131	47,157	51,338	18,198	6,303	5,982
1993	599,381	145,579	67,582	60,993	3,469	31,154	80,496	44,174	35,697	24,320	41,949	36,699	14,130	3,540	9,599
1994 1995	156,825	61,142	1,069	60,358	Closed	Closed	518 53 553	1,184 20,617	8,322	5,218	6,978	23,279	25,360	8,905 5,200	10,305 6,630
1995	524,232 391,202	190,158 161,424	28,697 21,391	31,857 29,059	1,990 1,901	15,604 8,750	53,553 41,820	20,617 18,103	23,801 15,486	66,403 15,580	22,920 20,343	28,560 18,972	28,242 25,417	5,200 6,408	6,548
1990	391,202	98,519	34,417	29,039	1,901	2,577	41,820 52,889	23,614	35,016	43,543	20,343 24,356	25,277	23,417 22,146	7,089	5,360

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. Similarly, the catch in Areas 2, 2.1 and 2.2 are included in the total catch for Area 2.

Marine Area	Number of Chinook	Number of Coho	Number of Chum	Number of Pink	Number of Sockeye	Number of Jacks	Number of Unknown	Total Salmon	Marine Angler Trips	Salmon pe Trip
Ilwaco-Ocean (Area 1)	397	11,570		9				11,976	7,276	1.6
Ilwaco-Buoy 10 (Area 1)	8,848	13,593						22,441	35,703	0.6
Westport (Área 2)	2,991	12,640	4	629				16,261	16,465	0.9
Willapa Bay (Area 2.1)	221	188	I					428	N/A	N/.
Grays Harbor (Area 2.2)	1,118	307				19		1,433	N/A	N//
LaPush (Area 3)	56	980	4	223		19		1,260	965	1.3
Neah Bay (Area 4)	490	1,538	I	549		0		2,577	4,729	0.54
Subtotal Coast	14,121	40,816	2	1,410	0	27	0	56,376	65,138	*0.84
Sekiu-Pillar Point (Area 5)	9,921	35,186	2	7,781				52,889	62,683	0.84
East Juan de Fuca (Area 6)	2,317	16,600	15	4,661	21			23,614	30,845	0.7
San Juan Islands (Area 7)	9,155	20,801	37	4,815	208			35,016	58,323	0.6
Deception Pass, Hope Island (Area 8.1)	1,225	3,008		1,661				5,894	15,557	0.38
Port Susan & Port Gardner (Area 8.2)	5,894	20,494		11,261				37,649	68,950	0.5
Admirality Inlet (Area 9)	10,641	9,567	35	4,113				24,356	56,643	0.43
Seattle-Bremerton (Area 10)	8,920	16,111	37	188	21			25,277	61,714	0.41
Tacoma-Vashon Island (Area 11)	9,602	12,210	74	248	12			22,146	79,305	0.32
Hood Canal (Area 12)	592	1,192	4,836	469				7,089	22,154	0.32
South Puget Sound (Area 13)	2,158	2,402	800					5,360	32,462	0.17
Subtotal Puget Sound	60,425	137,571	5,836	35,197	262	0	0	239,290	488,636	0.49
Marine Area Totals	74,546	178,387	5,838	36,607	262	27	0	295,666	553,774	0.5
Freshwater Totals	34,240	30,493	6,513	16,656	55	10,368	194	98,519		
Grand Totals	108,786	208,880	12,351	53,263	317	10,395	194	394,185	553,774	

Week Ending	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
July 27 August 3	65 147	3,596 4,255	9			3,670 4,402	2,404 2,738	1.53 1.61
August 10	185 397	3,719 11.570				3,904 11,976	2,134 7.276	1.83 1.65

Week Ending	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
August 3		269				292		
August 10	23	297				540		
August 17	243	373				1,639		
August 24	1,266	2,091				4,620		
August 31	2,529	5,797				8,834		
September 7	3,037	3,186				4,561		
September 14	1,375	1,222				1,596		
September 21	374	284				285		
September 28	1	61				61		
Sept. 29 - October 26		13				13		
TOTAL **	8,848	13,593				22,441		

Week Ending	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Pei Trip
July 27	864	2,146	388		1	3,399	4,201	0.81
August 3	283	3,328	123			3,734	3,201	1.17
August 10	170	2,805	57			3,032	2,895	1.05
August 17	465	1,943	17			2,425	2,169	1.12
August 24	706	1,481	19			2,206	1,743	1.27
August 31	222	516	3			741	1,340	0.55
September 7	281	421	22			724	916	0.79
TOTAL	2,991	12.640	629		1	16,261	16,465	0.99

Table 10. 1997 S	port Salmon Ca	atch, Area 2.1 - V	Willapa Bay				
Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Number of Jack	Total Salmon
July August September October	19 37 147 18	38 131 19				19	19 75 278 56
TOTAL	221	188				19	428

Table 11. 1997 S	Table 11. 1997 SPORT SALMON CATCH, Area 2.2 - Grays Harbor											
Statistical Month	Number of Chinook	Number of Coho	Number of Chum	Number of Pink	Number of Sockeye	Number of Jack	Total Salmon					
September October November	1,114 3 1	138 168 1	4 4				1,256 175 2					
TOTAL	1,118	307	8				1,433					

Table 12. 1997	able 12. 1997 Sport Salmon Catch, Area 3 – La Push													
Week Ending	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip						
July 27 August 3	32 24	557 423	120 103		1	710 550	570 395	1.25 1.39						
TOTAL	56	980	223		1	1,260	965	1.31						
Note: Catch by spec	Note : Catch by species is presented by actual catch area and therefore may not correspond with catch by quota area statistics reported prior to 1995.													

Week Ending	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Pe Tri
July 27	483	42	24			549	2,835	0.1
August 3		3	27			30	72	0.4
August 10	3	31	235			269	253	1.(
August 17		26	151			177	177	1.0
August 24		3	78			81	86	0.9
August 31	4	1,433	34			1,471	1,306	1.1
TOTAL	490	1,538	549			2,577	4.729	0.

Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
February March April	245 45 473					245 0 473	997 185 1,926	0.25 0.25 0.25
May June July	1,530 7,421 57	365 80	650			1,530 7,786 787	2,341 23,865 1,309	0.65 0.33 0.6
August September October	87 62 1	25,712 9,027 2	6,449 682		2	32,248 9,770 5	24,016 7,944 100	1.34 1.23 0.05
TOTAL	9,921	35,186	7,781		2	52,889	62,683	0.84

- September 15, 1997.

Table 15. 1997 Sp	oort Salmon C	atch, Area 6 - E	East Juan De Fi	uca Strait				
Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	232 217 46					232 217 46	619 579 124	0.38 0.38 0.38
April May June	201 31 1,403					201 31 1,403	537 82 6,053	0.38 0.38 0.23
July August September	139 30 18	408 10,796 5,334	53 4,011 597	21	14	600 14,872 5,949	3,230 13,708 4,653	0.19 1.08 1.28
October November		62			1	62 1	1,240 20	0.05 0.05
TOTAL	2,317	16,600	4,661	21	15	23,614	30,845	0.77

Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	570 1,049 709					570 1,049 709	1,658 2,244 2,279	0.34 0.47 0.31
April May June	911 528 669			9 12		911 537 681	2,932 3,895 4,937	0.31 0.14 0.14
July August September	1,309 982 297	1,492 8,740 9,412	56 3,446 1,313	28 32 127		2,885 13,200 11,149	11,236 12,565 10,384	0.26 1.05 1.07
October November December	1,176 345 610	895 262			26 7 4	2,097 614 614	3,885 1,138 1,170	0.54 0.54 0.53
TOTAL	9,155	20,801	4,815	208	37	35,016	58,323	0.60

Table 17. 1997 Sp	oort Salmon Ca	tch, Area 8.1 -	Deception Pas	ss / Hope Island				
Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	262 161 37					262 161 37	1,127 692 159	0.23 0.23 0.23
April May June	77 1 1	1				77 1 2	333 4 9	0.23 0.23 0.23
July August September	1	1 171 1,893	2 1,066 593			4 1,237 2,486	17 5,581 2,898	0.23 0.22 0.80
October November December	529 50 106	830 42 70				1,359 92 176	3,956 269 512	0.34 0.34 0.34
TOTAL	1,225	3,008	1,661			5,894	15,557	0.38

Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Pe Tri
January February March	401 773 293					401 773 293	815 3,183 1,577	0.4 0.2 0.1
April May June	494 201 1	22 1				494 223 2	2,659 1,201 28	0.1 0.1 0.0
July August September	129 1,885 1,247	624 2,202 16,370	42 7,713 3,498			795 11,800 21,115	1,884 28,269 24,981	0.4 0.4 0.8
October November December	400 21 49	1,085 56 134	7 1			1,492 77 184	3,705 191 457	0.4 0.4 0.4
TOTAL	5,894	20,494	11,261			37,649	68,950	0.5

Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	1,265 926 605					1,265 926 605	2,280 2,473 1,162	0.55 0.37 0.52
April May June	1,517 1,454 1,528	7 43 36	12			1,524 1,497 1,576	4,024 5,021 8,304	0.38 0.30 0.19
July August September	76 317	424 6,306 2,719	191 3,686 224			691 10,309 2,943	4,056 16,759 3,037	0.17 0.62 0.97
October November December	1,767 473 713	32			16 8 11	1,815 481 724	5,476 1,615 2,436	0.33 0.30 0.30
TOTAL	10,641	9,567	4,113		35	24,356	56,643	0.43

Table 20. 1997 S	port Salmon Ca	atch, Area 10 - S	Seattle / Breme	erton				
Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	446 538 337	2				446 538 339	1,486 1,792 1,415	0.30 0.30 0.24
April May June	230 525 812	1 16				231 525 828	965 2,271 4,762	0.24 0.23 0.17
July August September	1,649 2,652 762	574 1,559 11,638	40 106 42	21		2,284 4,317 12,442	12,206 15,099 12,555	0.19 0.29 0.99
October November December	534 289 146	2,295 17 9			37	2,866 306 155	6,734 1,614 815	0.43 0.19 0.19
TOTAL	8,920	16,111	188	21	37	25,277	61,714	0.41

Table 21. 1997 S	Sport Salmon	Catch, Area 11	- Tacoma/Vash	on Island				
Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	263 154 262					263 154 262	1,500 875 1,494	0.18 0.18 0.18
April May June	245 477 693					245 477 693	1,397 4,578 6,654	0.18 0.10 0.10
July August September	2,290 3,850 770	278 989 9,656	12 101 135	12	31	2,592 4,940 9,592	13,495 23,834 16,472	0.19 0.21 0.58
October November December	229 250 119	2,278 6 3			34 6 3	2,541 262 125	4,945 2,753 1,308	0.51 0.09 0.09
TOTAL	9,602	12,210	248	12	74	22,146	79,305	0.28

Table 22. 1997 \$	Sport Salmon	Catch, Area 12	- Hood Canal					
Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
January February March	124 156 107					124 156 107	1,026 1,288 887	0.92 0.94 0.12
April May June	77 47 30					77 47 30	638 386 250	0.12 0.12 0.12
July August September	1 9 19	43 349 722	18 147 304			62 505 1,045	324 2,648 5,475	0.19 0.19 0.19
October November December	22	64 14			1,089 3,508 239	1,153 3,522 261	2,451 6,325 456	0.47 0.56 0.57
TOTAL	592	1,192	469		4,836	7,089	22,154	0.32

Statistical Month	Number of Chinook	Number of Coho	Number of Pink	Number of Sockeye	Number of Chum	Total Salmon	Marine Angler Trips	Salmon Per Trip
Statistical Month	CHIHOOK	Collo	FILK	Зоскеуе	Chuin	Total Salition	The	Inb
January February March	36 70 142	11 22 44				47 92 186	324 639 1,287	0.14 0.14 0.14
April May June	95 12 12	29 4 4				124 16 16	861 105 108	0.14 0.14 0.14
July August September	318 1,103 305	98 271 1,567				416 1,374 1,872	2,882 7,827 10,792	0.14 0.18 0.17
October November December	54 6 5	294 31 27			669 70 61	1,017 107 93	6,382 672 583	0.16 0.16 0.16
TOTAL	2,158	2,402			800	5,360	32,462	0.17

Catch Area	Month / Day	Number of Boats	Number of Anglers	Number of Chinook	Number of Coho	Number of Chum	Number of Pink	Number of Sockeye	Tota Salmor
Area 5									
Pink only fishery Chinook non retention Catch and Release	August 1 - 10 August 11 - September 7 September 8 - 15	1,162 11,405 80	2,907 29,458 178	8 146 0	95 34,680 0	0 0 0	2,390 5,065 0	0 0 0	2,493 39,891 (
Total	August 1 - September 15	12,647	32,543	154	34,775	0	7,455	0	42,384
Area 8-2									
Tulalip Bay (inside) Tulalip Bay (outside)	August 1 - September 30 August 1 - September 30	10,500 25,062	21,312 53,917	2,902 359	668 18,528	0 0	926 10,327	0 0	4,496 29,214
Total	August 1 - September 30	35,562	75,229	3,261	19,196	0	11,253	0	33,710

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
				Colum	bia Rive	er Syste	ms							
	Chinook	2							1,674	2,371	29	21		1,09
	Chum											2		
	Coho								47	367	116	7		5
	Jack, Chinook								68	193	2	0		2
	Jack, Coho									370	89	2		4
Columbia River, Lower*	Total	2							1,789	3,301	236	32		5,3
	Chinook							3	137	1,094	475	17		2,0
	Chum										3			
	Coho							3	7	187	532	17		7
	Jack, Chinook							3	13	44	75	7		1
	Jack, Coho									65	108	7		1
Columbia River, Mid-	Total							9	457	1,390	1,193	48		3,0
	Chinook				14	476	162	7	61	1,474	3,258	29	4	5,4
	Coho								11	25	116	26		1
	Jack, Chinook					18	11	18	83	141	673	4		9
	Jack, Coho									4	33			
Columbia River, Upper	Total				14	494	173	25	155	1,644	4,080	59	4	6,6
	Chinook		3	8	6	5	3	25	181	982	165	25		1,4
	Chum								3			3		,
	Pink									5	8			
	Coho	8					3	3	20	919	3,014	401	36	4,4
	Sockeye								3					
	Jack, Chinook		3					3	23	145	86	3		2
	Jack, Coho								3	177	670	199	6	1,0
Cowlitz River	Total	8	6	8	6	5	6	31	233	2,228	3,943	631	42	7,1
	Chinook									143	10			1
	Coho									100	181	26		3
	Jack, Chinook									21	2			
	Jack, Coho									5	23	7		
	Takal									000	216			
Elochoman River	Total	1								269	216	33		5

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tot Fi:
				Columb	ia Rive	er Syste	ms							
	Chinook Coho Jack, Chinook									14 14 10	12			
Grays River	Total									38	12			
	Chinook Coho Jack, Chinook Jack, Coho						5		1 3	151 571 11 28	22 466 7 22			1,0
Green River	Total						5		4	761	517			1,
	Chinook					191	818	5						1,
Icicle River	Total					191	818	5						1,
	Chinook Chum Coho Jack, Chinook Jack, Coho		5					5	145 5 5	352 78 11 7	29 52 9 2	21 12	2 2	
Kalama River	Total		5					5	155	448	92	33	4	
	Chinook Coho Jack, Chinook Jack, Coho	7			20	81	140 7	29 4	243 4	1,045 37 31 21	342 354 38 132	11 103 66	4	1
Klickitat River	Total	11			20	81	147	33	247	1,134	866	180	4	2,
	Chinook						6							
Lewis River (East Fo	ork) Total						6							

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fisl
				Colum	bia Rive	er Syste	ms							
	Chinook Chum Pink		5	20	114	329	248	56	18 3	23	3 3			81
	Coho Sockeye						10	3	28	618 3	2,725	334	33	3,74
	Jack, Ćhinook Jack, Coho						16	8		5 123	18 366	8 63	3 3	55 55
Lewis River	Total		5	20	114	329	264	67	49	772	3,115	405	39	5,17
	Chinook Coho Jack, Chinook Jack, Coho				589	688 3	1	10	83 13 10	157 87 23 137	107 53 17 60			1,63 15 5 19
Little White Salmon River	Total				589	691	1	10	106	404	237			2,03
	Coho												1	
Snake River	Total												1	
	Coho Jack, Chinook Jack, Coho								3	5 3	236 6 47	89 3 10	58 5	39
Tilton River	Total								3	8	289	102	63	40
	Chinook Coho								3	12 4	3			
Toutle River	Total								3	16	3			2
	Chinook Chum						4	8	185	724 4	23 4	4		9
	Pink Coho Jack, Chinook								4 12	19 47 12	69	12		1
Washougal River	Total						4	8	201	806	96	16		1,1

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
				Colu	ımbia R	iver Sys	tems							
	Chinook				817	2,022	444	7	40	50	7			3,38
	Coho Jack, Chinook					13			3	33				
Wind River	Total				817	2,035	444	7	43	83	7			3,43
	Chinook Coho Jack, Chinook				113	60	6	37	63 7	100 90 10	30 33			4 1
	Jack, Coho									50	23			
White Salmon River	Total				113	60	6	37	70	250	86			6
	Chinook Chum Pink	2	13	28	1,673	3,852	1,837	192	3,131 3 7	8,692 4 24	4,500 10 8	107 5	4 2	24,0
	Coho Sockeye	15					3	9	147 3	3,182 3	7,962	1,036	134	14,4
	Jack, Chinook Jack, Coho	4	3			34		36	221 3	657 990	933 1,575	25 366	3 14	1,9 2,9
COLUMBIA RIVER SYSTEM	TOTALS	21	16	28	1,673	3,886	1,874	237	3,515	13,552	14,988	1,539	157	41,4

* In the lower Columbia River Catch Record Card estimates from February-October are replaced by creel survey estimates. Does not include some catch just above the Megler-Astoria Bridge from August-October. The excluded catch is shown in the Area 1 catch estimate from August-October.

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tot Fis
				Coast	al Rive	r Systen	าร							
	Chum Coho										20 3			
Bear River	Total										23			
	Chinook Chum Coho Jack, Unknown Jack, Coho							7		23	33 3 10 3	13 13 3 3		
Bogachiel River	Total							7		23	49	32		1
	Chinook Coho									3	3	3		
Calawah River	Total									3	3	3		
	Chinook Jack, Chinook Jack, Coho					17	87 3	56	8	123 8 3	11			3
Chehalis River	Total					17	90	56	8	135	11			3
	Chinook							5			16			
Clearwater River	Total							5			16			
	Chum	3												
Dickey River	Total	3												
	Chinook Chum Coho Jack, Chinook Jack, Coho					29	62 7	215	25 4	11 4 4	113 4 4	40 4		
Hoh River	Total					29	69	215	29	19	121	44		

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tot Fis
				Coast	al Rive	r Syster	ns							
	Chinook Chum Coho Unknown Jack, Unknown Jack, Chinook Jack, Coho		3					3	3 6	266 356 22 17 73	448 14 572 3 6 8 45	11 11		7: 9- 1
Humptulips River	Total		3					3	9	734	1,096	22		1,8
	Coho									11	34			
Joe Creek	Total									11	34			
	Chum									6				
Johns River	Total									6				
	Chinook Chum Coho Jack, Unknown Jack, Chinook Jack, Coho	3						3	183 10	551 47 3 7 34	710 27 98 7 3 7	81 7 51	3 61	1,5 2
Naselle River	Total	3						3	193	642	852	139	64	1,8
	Chinook Chum Coho										17 112 7	3		1
Nemah River	Total										136	3		1
	Chinook Coho Jack, Coho									3	3 51 24	7 3		
North River	Total									3	78	10		

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
				Coast	al Rive	r Syster	ns							
	Chinook Pink Coho Unknown Jack, Unknown Jack, Chinook				3		13	16	16 16 3 5	37 5 18 103 414	103 5 8	16 3 3	3	20 2 2 10
	Jack, Coho										50			46
Queets River	Total				3		13	16	40	577	166	22	3	84
	Chinook					3				3	7	3		
Quillayute River	Total					3				3	7	3		
	Chinook Chum Coho Jack, Chinook										4 11	19 8 4		
Quinault River	Total										15	31		
	Chinook Coho Jack, Chinook Jack, Coho									8 16 5 100	29 61 5 24	16		1
Salmon River	Total									129	119	16		2
	Chinook Chum Pink Coho Unknown Jack, Chinook Jack, Coho								3	6 6	437 291 6 275 6 3 17	3 3		4 3 2
Satsop River	Total								3	12	1,035	6		1,0

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
				Coast	al Rive	r Systen	ns							
	Chinook Chum Coho Jack, Coho									3 10	3 10	3		
Smith Creek	Total									13	13	3		
	Chinook Chum Pink Coho Sockeye				23	99 3	89	26	13 10 7	26 7 10	79 7 3 10	116		4
	Jack, Unknown Jack, Chinook Jack, Coho					3	3 7 3	7 10	3 3	3 10	3 10	13 23		
Sol Duc River	Total				23	105	102	43	36	56	112	152		6
	Chinook Coho Unknown Jack, Unknown Jack, Chinook Jack, Coho				3				27 3 7	267 88 7 30 30	271 37 3 7 20	61 41	3 95	
Willapa River	Total				3				37	422	338	102	101	1,0
	Chinook Chum Coho Jack, Unknown Jack, Chinook Jack, Coho								6 11	11 3	239 8 3 3			2
Wynoochee River	Total								17	14	253			2

Table 25. 1997 Freshwa	ter Salmon Cate	ch - Sta	tistical	Months	(contin	ued)								
Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Fish
				Coast	al Rive	[.] Systen	ns							
	Chinook Chum Pink	3			26	148 3	251	328	281	1,335 12	2,523 489 14	379 21	9	5,280 528 14
	Coho Sockeye Unknown	3	3		3			2	59 7	540 10	1,187 9	129 3	156	2,077 17 18
	Jack, Unknown Jack, Chinook Jack, Coho				3	3	3 17 3	3 7 10	6 19	53 173 678	9 16 36 203	3 19 4 33	3	104 262 920
COASTAL RIVER SYSTEMS	TOTALS	6	3		29	154	274	348	372	2,801	4,477	588	168	9,220

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fisl
			F	Puget Sc	ound Ri	ver Sys	tems							
	Chinook Chum Coho Unknown Jack, Unknown Jack, Chinook Jack, Coho								3	191 413 35 17 284	3 7 416 21 302	14 399 38 7 24	3 7	21 41 86 1 3 3 61
Carbon River	Total								3	943	749	482	10	2,18
	Chinook Coho								4	4 4				
Chambers Creek	Total								4	8				1
	Coho Jack, Coho										14 20	3		1
Dakota Creek	Total										34	3		3
Deschutes River-Capitol Lake	Chinook Unknown Coho Jack, Unknown Jack, Chinook Jack, Coho Total								42 42	183 7 7 14 7 218	78 7 35 7 134			30
Descrutes River-Capitol Lake									42	210	134			
	Chum											46	8	Ę
Duckabush River	Total											46	8	!
	Chinook Coho Unknown Jack, Coho								3	10	2 375 3 10	118		5
Dungeness River	Total								3	10	390	118		5

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
			F	Puget So	ound Ri	ver Sys	tems							
	Chinook Coho Jack, Coho						4			27	65 15	4		9 1
Elwha River	Total						4			27	80	4		11
	Chinook Chum Coho Unknown Jack, Unknown Jack, Chinook Jack, Coho							3 13	16	551 183 5 3 16	314 26 1,286 8 8 13 355	105 89 16	31 3	88 16 1,57 1 1 38
Green-Duwamish River	Total							16	16	758	2,010	210	34	3,04
	Chinook Unknown				4		4		23	4				:
Hoko River	Total				4		4		23	4				:
	Chum Coho Unknown										159 8	209 8		30
Kennedy Creek	Total										167	217		3
	Chinook Coho Unknown Jack, Coho								4	4	8 323 4 4			3
Lk Washington-Lk Sammamish	Total								4	4	339			3
	Coho										4			
Lyre River	Total										4			

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
			F	Puget So	ound Ri	ver Sys	tems							
	Chinook Jack, Chinook Jack, Coho								24	18 10 3	3			1
McAllister Creek	Total								24	31	3			5
	Chinook Chum Coho	107					3	8 5	131 10	183 31	13	3	73	32 18 5
	Unknown Jack, Unknown Jack, Chinook Jack, Coho	3						3	39	5 138 18	16 18			19
Nisqually River	Total	110					3	16	180	375	47	3	73	80
	Chinook Chum								10	109	48 14	119	3 106	16 23
	Pink Coho Unknown Jack, Unknown				3				10 7	20 290	1,153 3	420 17	89	3 1,95 2 1
	Jack, Chinook Jack, Coho									10 41 85	24 420	167	14	6 86
Nooksack River	Total				3				17	555	1,662	723	212	3,17
	Chinook Chum	3							10	49	21	7 153	3 135	29 29
	Coho Unknown							10	55	673 3	458	17 10	10	1,2
	Jack, Unknown Jack, Chinook Jack, Coho							10	3 107	142 7 690	28 14 253		3	18 2 1,0
Puyallup River	Total	3						10	175	1,564	774	187	151	2,8
	Chinook										4			
Quilcene River	Total										4			

Jack, Jack, Samish River Total Pink Pink Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Skagit River Total Chino Chum Coho Jack, Chino Chum Coho Jack,	n own , Unknown , Chinook , Coho I I Dook n oeye	4	F	Puget So	ound Ri	ver Sys	tems	4 28	174 17 3 7 201 28 20 5,973 291	2,165 7 160 3 14 92 38 2,479 4 4 4 4 4 4 4 3 2 8,563 682	130 7 481 3 10 136 767 12 56 259 2,438	3 3 7 13 13 8 351 24 96	104	2,4 6 1 3,4 3,4 5 14,8 3,5
Chum Pink Coho Unkno Jack, Jack, Jack, Jack, Jack, Samish River Total Pink Pink Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho Socke Unkno Jack, Jack, Jack, Jack, Jack, Jack, Skagit River	n own , Unknown , Chinook , Coho I I ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook								17 3 7 201 28 20 5,973 291	7 160 3 14 92 38 2,479 4 4 4 4 32 8,563	7 481 3 10 136 767 12 56 259	3 7 13 8 351 24	104	6 1 3,4 5 14,8 3,5
Pink Coho Unkno Jack, Jack, Jack, Jack, Jack, Samish River Total Pink Pink Sauk River Total Chino Chum Pink Coho Socket Unkno Jack, Jack, Skagit River Total Chino Chum Coho Socket Jack, Jack, Jack, Jack, Skagit River Total	o own , Unknown , Chinook , Coho I I ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook n ook								3 7 201 28 20 5,973 291	160 3 14 92 38 2,479 4 4 4 4 32 8,563	481 3 10 136 767 12 56 259	7 13 8 351 24	104	6 1 3,4 3,4 5 14,8 3,5
Samish River Total Samish River Total Pink Pink Sauk River Total Chino Chino Chum Pink Coho Socket Unknow Socket Unknow Socket Unknow Jack, Jack, Jack, Skagit River Total Chino Chino Skagit River Total	own , Unknown , Chinook , Coho I I ook n ook n eye own , Chinook								3 7 201 28 20 5,973 291	160 3 14 92 38 2,479 4 4 4 4 32 8,563	3 10 136 767 12 56 259	13 8 351 24	104	3,4
Samish River Total Pink Sauk River Total Pink Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Chino Chum Pink Coho Socke Unkno Jack, Jack	own , Unknown , Chinook , Coho I I ook n ook n eye own , Chinook								3 7 201 28 20 5,973 291	3 14 92 38 2,479 4 4 4 4 32 8,563	3 10 136 767 12 56 259	8 351 24	104	3,-
Samish River Total Pink Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Jack, Jack, Jack, Jack, Jack, Jack,	, Unknown , Chinook , Coho I I ook n ook n ook eye iown , Chinook								7 201 28 20 5,973 291	14 92 38 2,479 4 4 44 32 8,563	10 136 767 12 56 259	8 351 24	104	3 , 14,
Samish River Total Pink Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum	, Coho I Dook n o eye iown , Chinook								7 201 28 20 5,973 291	38 2,479 4 4 4 4 32 8,563	136 767 12 56 259	8 351 24	104	3 , 14,
Samish River Total Pink Pink Sauk River Total Chino Chum Pink Coho Socket Unknot Jack, Jack, Jack, Jack, Skagit River Total Chino Chum Choo Socket Skagit River Total	l bok n eye iown , Chinook								201 28 20 5,973 291	2,479 4 4 4 4 32 8,563	767 12 56 259	8 351 24	104	3 , 14,
Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho	Dok n eye jown , Chinook								28 20 5,973 291	4 4 44 32 8,563	12 56 259	8 351 24	104	14,
Sauk River Total Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho Jack,	ook n eye own , Chinook								20 5,973 291	4 44 32 8,563	56 259	351 24	104	14,
Chino Chum Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho Jack,	ook n eye own , Chinook								20 5,973 291	44 32 8,563	56 259	351 24	104	14,
Chum Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho Jack,	n eye iown , Chinook								20 5,973 291	32 8,563	56 259	351 24	104	14,
Pink Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho Jack,	eye Iown , Chinook							28	5,973 291	8,563	259	24	104	14,
Coho Socke Unkno Jack, Jack, Jack, Skagit River Total Chino Chum Coho Jack,	eye Jown , Chinook							28	291					14, 3,
Socke Unkno Jack, Jack, Skagit River Total Chino Chum Coho Jack,	eye Iown , Chinook									682	2,438	96		3,
Unkno Jack, Jack, Skagit River Total Chino Chum Coho Jack,	iown , Chinook								4	28				
Skagit River Total Chino Chum Coho Jack,	, Chinook								-	20		4		
Skagit River Total Chino Chum Coho Jack,	Coho									4		-		
Chino Chum Coho Jack,		4							16	28	92	4		
Chum Coho Jack,	I	8						32	6,332	9,381	2,857	487	104	19,
Coho Jack,										4				
Jack,											4-	296		
										53 11	15 8	46		
	, Coho									11	8			
Skokomish River Total	1									79	31	342		
Chino										3	3			
Chum									~	40	37	228	25	
Pink Coho									3 9	12 422	3 1,462	86	9	1,
Unkno									Э	422	1,402	3	Э	١,
	, Coho									22	18	5		
Skykomish River Total														

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
			F	Puget So	und Ri	ver Sys	tems							
	Chum									4	9	22	6	4
	Pink									3				
	Coho								3	967	1,111	46	3	2,13
	Jack, Coho									22	46	6		7
Snohomish River	Total								3	996	1,166	74	9	2,24
	Chinook									3	6			
	Chum	3										18	25	
	Coho									49	468	145	43	7
	Jack, Unknown		0								6	3		
	Jack, Chinook Jack, Coho		3								6	6	3	
Snoqualmie River	Total	3	3							52	486	172	71	78
onoquanne ravei	lotai	Ŭ	•							02	400			
	Chinook									6				
	Chum											3		
	Pink							6	600	1,053	28 3	0		1,6
	Coho Jack, Unknown								3		3	9		
	Jack, Ulikilowii								5					
Stillaguamish River	Total							6	603	1,059	31	12		1,7
	Chinook								24	92	167	14		2
	Chum								24	7	604	2,265	126	3,0
	Coho										126	48	3	1
	Unknown										3	38	10	
	Jack, Chinook										10	3		
	Jack, Coho										24	3		
Whatcom Creek	Total								24	99	934	2,371	139	3,5
	Chinook									3				
White (Stuck) River	Total	1												

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota Fis
			F	Puget So	ound Ri	ver Sys	stems							
	Chinook						11	15	432	3,616	796	50	9	4,92
	Chum	113							20	43	919	4,220	646	5,96
	Pink							34	6,586	9,662	290	[′] 31		16,60
	Coho	4						18	395	3,971	10,225	1,158	157	15,92
	Sockeye								4	28				
	Unknown	3			7				27	14	28	87	10	1
	Jack, Unknown							10	3	213	80	3		30
	Jack, Chinook		3					3	69	337	123	3		53
	Jack, Coho	4							130	1,224	1,730	229	20	3,33
PUGET SOUND RIVER	TOTALS	124	3		7		11	80	7,666	19,108	14,191	5,781	842	47,8

Table 26. 1997	Washingto	on Sport Sa	lmon Fishin	g, by Residen	се		
County of Residence	# Catch Record Cards	Population by County	% Catch Record Card Holders	Total Freshwater Salmon Catch	Total Marine Salmon Catch	Total Salmon	Average Catch per Catch Record Card
Adams Asotin Benton	384 71 4,863	15,800 19,700 13,4100	2.43 0.36 3.63	145 36 2,109	246 1,080	391 36 3,189	1.02 0.51 0.66
Chelan Clallam Clark	1,507 8,547 19,468	62,200 66,400 316,800	2.42 12.87 6.15	1,673 818 8,219	663 24,204 6,937	2,336 25,022 15,156	1.55 2.93 0.78
Columbia Cowlitz Douglas	28 9,954 967	4,200 92000 30,800	0.67 10.82 3.14	200 5,691 618	3,469 379	200 9,160 997	7.14 0.92 1.03
Ferry Franklin Grant	142 1,280 1,024	,7300 43,900 68300	1.95 2.92 1.50	218 546 218	398 910	218 944 1,128	1.54 0.74 1.10
Grays Harbor Island Jefferson	7,494 9,826 3,114	68,300 71,600 26,300	10.97 13.72 11.84	1,418 727 364	3,184 15,846 5,724	4,602 16,573 6,088	0.61 1.69 1.96
King Kitsap Kittitas	62,855 16,951 1,010	1,646,200 229,400 31,500	3.82 7.39 3.21	10,328 327 400	60,596 18,025 114	70,924 18,352 514	1.13 1.08 0.51
Klickitat Lewis Lincoln	1,209 4,935 85	19,000 68,300 9,800	6.36 7.23 0.87	891 4,455 109	95 4,075	986 8,530 109	0.82 1.73 1.28
Mason Okanogan Pacific	3,982 299 3,612	47,900 38,400 21,300	8.31 0.78 16.96	746 182 1,164	5,118 133 2,350	5,864 315 3,514	1.47 1.05 0.97
Pend Oreille Pierce San Juan	71 34,329 1,991	11,200 674,300 12,500	0.63 5.09 15.93	6,728	57 32,317 4,625	57 39,045 4,625	0.80 1.14 2.32
Skagit Skamania Snohomish	16,254 384 36,149	96,900 9,900 551,200	16.77 3.88 6.56	11,656 109 8,728	10,292 303 36,980	21,948 412 45,708	1.35 1.07 1.26
Spokane Stevens Thurston	3,370 398 11,675	409,900 37,400 197,600	0.82 1.06 5.91	1,691 2,728	1,952 114 9,908	3,643 114 11,636	1.08 0.29 1.00
Wahkiakum Walla Walla Whatcom	626 896 11,234	3,900 54,000 156,200	16.05 1.66 7.19	309 255 8,383	588 322 9,553	897 577 17,936	1.43 0.64 1.60
Whitman Yakima Unknown USA	256 7,665 142	41,200 208,700 n/a	0.62 3.67 n/a	5,873	341 2,028	341 7,901	1.33 1.03
Washington Total	289,047	5,606,800	5.16	88,062	261,926	349,988	1.21
Other State Total Canada Unknown	31,527 1,081 9,855	n/a n/a n/a	n/a n/a n/a	5,091 55 5,310	17,760 531 15,448	22,851 586 20,758	0.73 0.54 2.11
Grand Total	331,511	n/a	n/a	98,519	295,666	394,185	1.19

Salmon per atch Record Card	# of Cards	Cumulative # of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulat Percent Ca
0	217,623	217,623	65.65	65.65	0	0	0.00	(
1	31,337	248,960	9.45	75.10	26,209	26,209	6.65	
2	25,666	274,646	7.75	82.85	42,966	69,175	10.90	1
3	11,594	286,240	3.50	86.34	29,089	98,264	7.38	2
4	11,459	297,699	3.46	89.80	38,334	136,598	9.72	3
5	5,335	303,034	1.61	91.41	22,311	158,909	5.66	4
6	5,808	308,842	1.75	93.16	29,146	188,505	7.39	4
7	3,264	312,106	0.98	94.15	19,111	207,166	4.85	5
8	3,512	315,618	1.06	95.21	23,497	230,663	5.96	5
9	2,656	318,274	0.80	96.01	19,995	250,658	5.07	6
10	2,544	320,818	0.77	96.77	21,276	271,934	5.40	6
11	1,508	322,326	0.46	97.23	13,876	285,810	3.52	7
12	1,396	323,722	0.42	97.65	14,008	299,818	3.55	7
13	1,441	325,163	0.43	98.09	15,665	315,483	3.97	8
14	1,261	326,424	0.38	98.47	14,761	330,244	3.74	8
15	4,953	331,377	1.49	99.96	62,133	392,377	15.76	9
16	135	331,511	0.04	100.00	1,807	394,185	0.46	10
Total	331,511		100.00		394,185		100.00	

Table 28A. 1997 Sport Salmon Technical Catch Data	
Records on File	Estimates and Calculations
Name and Address File	23,371
Catch Record Cards in Sample Returns	14,726
Correction Data	
Correction Factor Percentage of voluntarily returned catch records with matching names and addresses	4,510 / 5,072 = 0.889
Name/Address Corrected for Dealer Non-Response	23,371 / 0.899 = 26,289
Estimated Number of Catch Records Issued	13,777 x 24.06269 = 331,511
Catch Expansion Factor	331,511 / 14,726 = 22.51

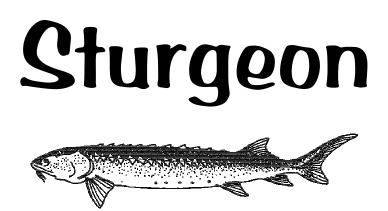
Table 28B. 1997 Inventory of Catch Record Cards Received

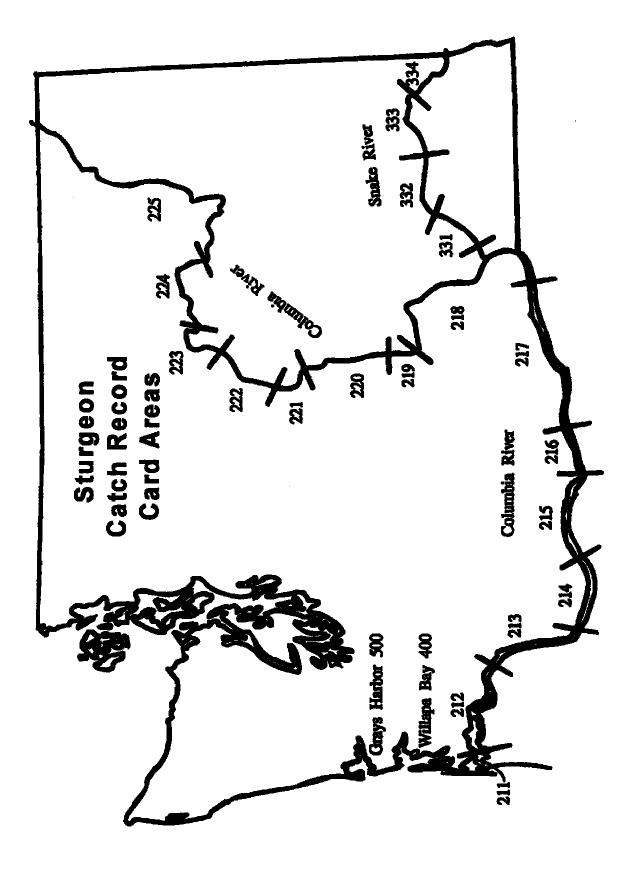
B	Number of Ca	ards with Catch	Number of Card	Is without Catch	Tatal	Nur	nber of Salmo	on	Catch Per Card			
Response Code*	Catch Records	Reminder Letters	Catch Records	Reminder Letters			Reminder Letters	Total Salmon	Catch Records	Reminder Letters	Total Salmon	
1	217	0	150	0	367	306	0	306	.83	0	.83	
2	469	540	477	1,982	3,468	658	733	1,391	.70	.29	.40	
4	91	184	119	830	1,224	130	261	391	.62	.26	.32	
6	1,848	1,003	1,710	3,844	8,405	2,566	1,428	3,994	.72	.29	.48	
7	690	0	556	0	1,246	929	0	929	.75	0	.75	
8	16	0	0	0	16	18	0	18	1.13	0	1.13	
Total	3,331	1,727	3,012	6,656	14,726	4,607	2,422	7,029	.73	.29	.48	

*Response Codes1 Prior to any reminder sent2 After second reminder

4 After third reminder

After first reminder
After first reminder
From sporting goods dealer
Return date unknown





Washington State Sport Catch Report 1997 48

Description of Sturgeon Catch Record Card Areas

Columbia River

- 211 Buoy 10 to Astoria Bridge
- 212 Astoria Bridge to Longview Bridge
- 213 Longview Bridge to I-5 Bridge
- 214 I-5 Bridge to Bonneville Pool
- 215 Bonneville Pool to the Dalles Pool
- 216 The Dalles Pool to John Day Pool
- 217 John Day Pool to McNary Pool
- 218 McNary Pool to Priest Rapids Pool
- 219 Priest Rapids Pool to Wanapum Pool
- 220 Wanapum Pool to Rock Island Pool
- 221 Rock Island Pool to Rocky Reach Pool
- 222 Rocky Reach Pool to Wells Pool
- 223 Wells Pool to Chief Joseph Pool
- 224 Chief Joseph Pool to Grand Coulee Pool
- 225 Grand Coulee Pool to Canadian Border

Snake River

- 331 Ice Harbor Pool to Lower Monumental Pool
- 332 Lower Monumental Pool to Little Goose Pool
- 333 Little Goose Pool to Lower Granite Pool
- 334 Lower Granite Pool to Idaho Border

Other

- 400 Willapa Bay
- 500 Grays Harbor
- 299 Unknown Area (Statewide)

Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Fis
					Columb	oia River	⁻ Syster	n						
Buoy 10 to	White Green	0 0	32 0	213 0	146 0	423 1	1,062 5	1,426 5	1,048 18	100 0	9 0	9 0	4 0	4,472 29
Astoria Bridge	Total	0	32	213	146	424	1,067	1,431	1,066	100	9	9	4	4,501
Astoria Bridge to	White	0	73	482	332	959	2,405	3,229	2,372	226	22	22	8	10,130
Longview Bridge	Total	0	73	482	332	959	2,405	3,229	2,372	226	22	22	8	10,130
Longview Bridge to	White	38	140	102	74	0	10	5	2	6	83	127	256	843
I-5 Bridge	Total	38	140	102	74	0	10	5	2	6	83	127	256	843
I-5 Bridge to	White	44	176	449	455	379	374	226	123	472	292	270	17	3,277
Bonneville Dam	Total	44	176	449	455	379	374	226	123	472	292	270	17	3,277
Bonneville Dam to	White	100	258	370	43	12	35	4	15	8	8	31	4	888
The Dalles Dam	Total	100	258	370	43	12	35	4	15	8	8	31	4	888
The Dalles Dam to	White	15	31	15	35	4	8	0	0	0	0	0	0	108
John Day Dam	Total	15	31	15	35	4	8	0	0	0	0	0	0	108
John Day Dam to	White	0	8	42	12	23	39	116	39	4	0	0	0	283
McNary Dam	Total	0	8	42	12	23	39	116	39	4	0	0	0	283
McNary Dam to	White	4	8	27	35	42	119	181	131	39	19	4	4	613
Priest Rapids Dam	Total	4	8	27	35	42	119	181	131	39	19	4	4	613
Priest Rapids Dam to	White	0	0	0	0	0	4	8	0	0	4	0	0	16
Wanapum Dam	Total	0	0	0	0	0	4	8	0	0	4	0	0	16
Wanapum Dam to	White	0	0	0	0	0	0	0	0	4	0	0	0	4
Rock Island Dam	Total	0	0	0	0	0	0	0	0	4	0	0	0	4
Rock Island Dam to	White	0	0	0	0	8	0	8	8	0	4	0	0	28
Rocky Reach Dam	Total	0	0	0	0	8	0	8	8	0	4	0	0	28
Wells Dam to	White	0	8	0	0	0	0	4	0	0	0	0	4	16
Chief Joseph Dam	Total	0	8	0	0	0	0	4	0	0	0	0	4	16
Grand Coulee Dam to	White Total	0	0	0	0	0	0	35	0	0	0	0	0	35
Canadian border	Total	0	0	0	0	0	0	35	0	0	0	0	0	35
COLUMBIA RIVER	White Green	201 0	734 0	1,700 0	1,132 0	1,850 1	4,056 5	5,242 5	3,738 18	859 0	441 0	463 0	297 0	20,713 29
SYSTEM	Total	201	734	1,700	1,132	1,851	4,061	5,247	3,756	859	441	463	297	20,742

Table 29. 1997 Sport S	turgeon Ca	tch, by <i>i</i>	Area an	d Montl	h (conti	nued)								
Catch Area	Species	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total Fish
					Snake	River Sy	/stem							
Ice Harbor Dam to	White	0	0	0	0	12	50	16	12	0	0	0	0	90
Lower Monumental Dam	Total	0	0	0	0	12	50	16	12	0	0	0	0	90
Lower Monumental Dam to	White	0	0	0	4	8	4	35	15	0	0	0	0	66
Little Goose Dam	Total	0	0	0	4	8	4	35	15	0	0	0	0	66
Little Goose Dam to	White	0	0	0	0	12	23	23	27	4	0	0	0	89
Lower Granite Dam	Total	0	0	0	0	12	23	23	27	4	0	0	0	89
Lower Granite Dam to	White	0	0	0	0	4	12	15	0	0	0	0	0	31
Idaho Border	Total	0	0	0	0	4	12	15	0	0	0	0	0	31
SNAKE RIVER	White	0	0	0	4	36	89	89	54	4	0	0	0	276
SYSTEM	Total	0	0	0	4	36	89	89	54	4	0	0	0	276
					Grays H	larbor S	ystem							
	White	42	100	104	77	39	39	89	100	58	23	50	77	798
	Green	4	4	8	4	12	19	15	12	8	15	4	0	105
	Unknown	4	8	0	8	4	0	15	4	0	0	0	0	43
GRAYS HARBOR SYSTEM	Total	50	112	112	89	55	58	119	116	66	38	54	77	946
					Willapa	a Bay Sy	/stem							
	White	119	85	219	173	108	58	77	69	19	135	58	150	1,270
	Green	0	0	4	0	0	0	0	0	0	0	0	0	4
	Unknown	0	0	0	15	0	0	0	0	0	0	0	0	15
WILLAPA BAY SYSTEM	Total	119	85	223	188	108	58	77	69	19	135	58	150	1,289
				5	Statewic	le Catch	Areas							
	White	362	919	2,023	1,386	2,033	4,242	5,497	3,961	940	599	571	524	23,057
	Green Unknown	4 4	4 8	12 0	4 23	13 4	24 0	20 15	30 4	8 0	15 0	4 0	0 0	138 58
STATEWIDE CATCH AREAS	Total	4 370	8 931	2,035	23 1,413	4 2,050	4,266	5,532	4 3,995	948	614	575	524	23,253

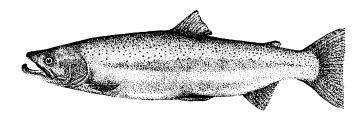
County of	Number of Catch	Population by	Percentage of Catch	Total	Average Catch per
Residence	Record Cards	County	Record Card Holders	Sturgeon	Catch Record Card
Adams	273	15,800	1.70	76	0.28
Asotin	173	19,700	0.90	56	0.32
Benton	3,655	134,100	2.70	434	0.12
Chelan	215	62,200	0.30	23	0.11
Clallam	229	66,400	0.30	116	0.51
Clark	17,779	316,800	5.60	5,415	0.30
Columbia	28	4,200	0.70	3	0.11
Cowlitz	8,909	92,000	9.70	2,724	0.31
Douglas	168	30,800	0.50	20	0.12
Ferry	5	7,300	0.10	0	0.00
Franklin	1,164	43,900	2.70	166	0.14
Garfield	21	2,400	0.90	3	0.14
Grant	550	68,300	0.80	50	0.09
Grays Harbor	4,140	68,300	6.10	656	0.16
Island	54	71,600	0.10	13	0.24
Jefferson	42	26,300	0.20	13	0.31
King	4,340	1,646,200	0.30	1,518	0.35
Kitsap	816	229,400	0.40	235	0.29
Kittitas	138	31,500	0.40	17	0.12
Klickitat	681	19,000	3.60	275	0.40
Lewis	2,661	68,300	3.90	779	0.29
Lincoln	33	9,800	0.30	3	0.09
Mason	947	47,900	2.00	229	0.24
Okanogan	65	38,400	0.20	17	0.26
Pacific	3,414	21,300	16.00	2,575	0.76
Pend Oreille	28	11,200	0.30	3	0.11
Pierce	3,302	674,300	0.50	1,107	0.34
San Juan	14	12,500	0.10	0	0.00
Skagit	187	96,900	0.20	33	0.18
Skamania	362	9,900	3.70	80	0.22
Snohomish	1,294	551,200	0.20	411	0.32
Spokane	1,078	409,900	0.30	235	0.22
Stevens	168	37,400	0.45	20	0.12
Thurston	2,967	197,600	1.50	1,060	0.36
Wahkiakum	686	3,900	17.60	381	0.56
Walla Walla	751	54,000	1.40	99	0.13
Whatcom	177	156,200	0.10	63	0.36
Whitman	91	41,200	0.20	20	0.22
Yakima	3,918	208,700	1.90	600	0.15
Unknown USA	23	n/a	n/a	0	0.00
Washington Total	65,532	5,606,800	1.20	19,600	0.30
Other State Total Canada Foreign Unknown	8,921 44 2 2,307	n/a n/a n/a	n/a n/a n/a n/a	3,426 13 0 285	0.38 0.30 0.00 0.12
Grand Total	76,806	n/a	n/a	23,253	0.30

Number of 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	61,264	61,264	79.77	79.77	0	0	0.00	0.00
1	9,553	70,817	12.44	92.20	7,546	7,546	32.45	32.45
2	2,778	73,595	3.62	95.82	4,389	11,935	18.88	51.33
3	1,295	74,890	1.69	97.51	3,068	15,003	13.19	64.52
4	771	75,661	1.00	98.51	2,436	17,438	10.47	74.99
5	424	76,085	0.55	99.06	1,674	19,112	7.20	82.19
6	297	76,382	0.39	99.45	1,406	20,518	6.05	88.24
7	158	76,540	0.21	99.65	874	21,392	3.76	92.00
8	104	76,644	0.14	99.79	658	22,050	2.83	94.83
9	96	76,740	0.13	99.91	685	22,735	2.96	97.77
10	66	76,806	0.09	100.00	517	23,253	2.23	100.00
Total	76,806		100.00		23,253		100.00	

Table 32A. 1997 Sturgeon Technical Catch Data	
Records on File	Estimates and Calculations
Name and Address File	32,675
Catch Record Cards in Sample Returns	19,931
Correction Data	
Correction Factor Percentage of voluntarily returned catch records with matching names and addresses	1,276 / 1,499 =. 851
Name/Address Corrected for Dealer Non-Response	32,675 / .851 = 38,396
Estimated Number of Catch Records Issued	38,396 x 2 = 76,806
Catch Expansion Factor	76,806 / 19,931 = 3.85

D	Number of Car	ds with Catch	Number of Cards	without Catch	Tatal	Nu	umber of Salm	on	(Catch Per Car	d
Response	Catch	Reminder	Catch	Reminder	Total	Catch	Reminder	Total	Catch	Reminder	Total
Code*	Records	Letters	Records	Letters	Cards	Records	Letters	Sturgeon	Records	Letters	Sturgeon
1	613	0	1,531	0	2,144	1,154	0	1,154	.54	0	0.54
2	612	958	1,494	6,640	9,704	1,151	1,649	2,800	.55	.22	0.29
4	207	490	522	3,098	4,317	358	818	1,176	.49	.23	0.27
7	1,153	0	2,613	0	3,766	2,509	0	2,509	.67	0	0.67
Total	2,585	1,448	6,160	9,738	19,931	5,172	2,467	7,639	.59	.22	0.38

Steelhead



				Colun	nbia Ri	ver and	d Tribut	taries ¹	I							
_		Marked/			Summe	r 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
ABERNATHY CREEK SYSTEM	Abernathy Creek	Marked Unmarked Total			25 0 25	5 0 5			2 0 2		2 0 2				30 0 30	4 0 4
ASOTIN CREEK SYSTEM	Asotin Creek	Marked Unmarked Total						5 0 5	35 0 35						40 0 40	
COLUMBIA RIVER SYSTEM	Below Bonneville Dam	Marked Unmarked Total	138 0 138	1040 12 1052	2544 39 2583	2565 49 2614	209 7 216	27 0 27		2 0 2	8 1 9	3 0 3	3 0 3	3 0 3	107	19 1 20
	Bonneville Dam to Dalles Dam	Marked Unmarked Total	2 0 2	5 0 5	12 0 12	211 15 226	139 2 141	27 2 29	2 0 2						398 19 417	
	The Dalles Dam to John Day Dam	Marked Unmarked Total		7 0 7	32 0 32	44 2 46	29 0 29	58 0 58	61 0 61	90 0 90	187 0 187	282 0 282	85 0 85		875 2 877	
	John Day Dam to McNary Dam	Marked Unmarked Total			10 0 10	2 0 2	7 0 7	151 0 151	171 2 173	177 0 177	61 0 61	75 0 75	144 7 151	2 0 2	9	
	McNary Dam to Hwy 395	Marked Unmarked Total		5 0 5	7 5 12	24 0 24	70 0 70	410 15 425	479 7 486	229 2 231	80 5 85	39 0 39	44 0 44		1387 34 1421	
	Hwy 395 Bridge to Priest Rapids Dam	Marked Unmarked Total	46 0 46	156 0 156	550 2 552	422 10 432	219 0 219	2 0 2		10 0 10					1405 12 1417	
	Priest Rapids Dam to Wanapum Dam	Marked Unmarked Total			2 0 2	2 0 2	2 0 2								6 0 6	
	Rock Island Dam to Rocky Reach Dam	Marked Unmarked Total			5 0 5	10 0 10	15 0 15								30 0 30	
	Rocky Reach Dam to Wells Dam	Marked Unmarked Total				10 0 10	17 0 17								27 0 27	
	Wells Dam to Chief Joseph Dam	Marked Unmarked Total			2 0 2	19 0 19	39 0 39	2 0 2							62 0 62	
	Chief Joseph Dam to Grand Coulee Dam	Marked Unmarked Total	7 0 7												7 0 7	

				Colur	nbia Ri	ver and	l Tribu	taries ¹								
		Marked/			Summe	r 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
COLUMBIA RIVER SYSTEM (cont.)	Columbia River System	Marked Unmarked Total	193 0 193	1213 12 1225	3164 46 3210	3309 76 3385	746 9 755	677 17 694	713 9 722	508 2 510	336 6 342	399 0 399	276 7 283	5 0 5		19 1 20
COWLITZ RIVER SYSTEM	Coweeman River	Marked Unmarked Total				3 0 3	15 0 15			8 0 8	6 0 6	17 0 17			18 0 18	31 0 31
	Cowlitz River	Marked Unmarked Total	34 15 49	53 3 56	115 0 115	123 0 123	69 5 74	25 3 28	17 0 17	36 6 42	111 0 111	31 0 31	8 3 11	3 5 8	419 26 445	206 14 220
	Cowlitz River above Cowlitz Falls	Marked Unmarked Total								3 0 3				3 0 3		6 0 6
	Cowlitz River below Mayfield Dam	Marked Unmarked Total	192 13 205	346 10 356	826 31 857	865 20 885	450 10 460	171 8 179	133 3 136	451 14 465	748 17 765	209 19 228	231 0 231	156 0 156	92	1928 53 1981
	Cowlitz, Mayfield to Cowlitz Falls Dams	Marked Unmarked Total		3 0 3	3 0 3				3 0 3						6 0 6	3 0 3
	Green River	Marked Unmarked Total		31 0 31	18 2 20	10 0 10	20 0 20	5 3 8	14 0 14						84 5 89	14 0 14
	Lacamas Creek	Marked Unmarked Total									3 0 3					3 0 3
	Olequa Creek	Marked Unmarked Total											0 3 3			0 3 3
	Tilton River	Marked Unmarked Total			0 3 3						0 3 3				0 3 3	0 3 3
	Toutle River	Marked Unmarked Total							3 0 3							3 0 3
	Toutle River, South Fork	Marked Unmarked Total		146 0 146	163 3 166	46 0 46	3 0 3		3 0 3	8 0 8	3 0 3	3 0 3	3 0 3		358 3 361	20 0 20
	Cowlitz River System	Marked Unmarked Total	226 28 254	579 13 592	1125 39 1164	1047 20 1067	557 15 572	201 14 215	173 3 176	506 20 526	871 20 891	260 19 279	242 6 248	162 5 167	3735 129 3864	2214 73 2287

				Colum	bia Ri	ver and	d Tribut	taries	I							
_		Marked/			Summer	[.] 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
ELOCHOMAN RIVER SYSTEM	Elochoman River	Marked Unmarked Total		72 0 72	52 0 52	25 0 25	30 0 30	36 5 41	82 0 82	88 0 88	340 0 340	115 0 115	44 0 44		215 5 220	669 0 669
GERMANY CREEK SYSTEM	Germany Creek	Marked Unmarked Total									4 0 4	2 0 2				6 0 6
GRANDE RONDE SYSTEM	Grande Ronde River	Marked Unmarked Total	0 3 3				37 3 40	725 25 750	1031 31 1062	633 3 636	395 3 398	596 12 608	859 6 865	235 0 235	4511 86 4597	
GRAYS RIVER SYSTEM	Grays River and West Fork	Marked Unmarked Total							2 0 2	6 0 6	2 0 2	4 0 4	0 4 4			14 4 18
HAMILTON CREEK SYSTEM	Hamilton Creek	Marked Unmarked Total								2 0 2	2 0 2	4 0 4				8 0 8
KALAMA RIVER SYSTEM	Gobar Creek	Marked Unmarked Total		2 0 2			2 0 2	31 0 31	52 0 52	30 0 30	4 0 4		4 0 4		35 0 35	90 0 90
	Kalama River	Marked Unmarked Total		21 0 21	25 0 25	17 0 17	4 0 4					4 0 4			67 0 67	4 0 4
	Kalama River above Kalama Falls Hatchery	Marked Unmarked Total	2 0 2	4 0 4	4 0 4	8 0 8	2 0 2								20 0 20	
	Kalama River below Kalama Falls Hatchery	Marked Unmarked Total	81 0 81	203 0 203	359 2 361	131 0 131	44 0 44	6 0 6	41 0 41	41 4 45	33 0 33	15 0 15	7 0 7	59 0 59	824 2 826	196 4 200
	Kalama River System	Marked Unmarked Total	83 0 83	230 0 230	388 2 390	156 0 156	52 0 52	37 0 37	93 0 93	71 4 75	37 0 37	19 0 19	11 0 11	59 0 59	946 2 948	290 4 294
KLICKITAT RIVER SYSTEM	Klickitat River	Marked Unmarked Total	8 0 8	54 0 54	212 5 217	346 8 354	268 5 273	123 0 123	51 0 51						1062 18 1080	
LEWIS RIVER SYSTEM	Cedar Creek	Marked Unmarked Total						5 0 5							5 0 5	
	Lewis River	Marked Unmarked Total	7 0 7	17 0 17	45 0 45	35 0 35	5 0 5		5 3 8	5 0 5					109 0 109	10 3 13

				Colun	nbia Ri	ver and	d Tribut	taries								
0 /		Marked/			Summe	r 1997					Winter	1998			Tot	tal
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
LEWIS RIVER SYSTEM (continued)	Lewis River, East Fork	Marked Unmarked Total	40 0 40	52 2 54	52 0 52	28 0 28	19 2 21	7 0 7	22 0 22	38 0 38	27 8 35	41 0 41	19 0 19	16 0 16	4	163 8 171
	Lewis River, North Fork	Marked Unmarked Total	21 0 21	130 7 137	135 7 142	85 7 92	47 0 47	24 0 24	14 0 14	41 3 44	139 0 139	16 0 16	3 0 3	3 0 3	21	216 3 219
	Lewis River System	Marked Unmarked Total	68 0 68	199 9 208	232 7 239	148 7 155	71 2 73	36 0 36	36 0 36	84 6 90	171 8 179	57 0 57	22 0 22	19 0 19	25	389 14 403
LITTLE WHITE SALMON RIVER SYSTEM	Drano Lake	Marked Unmarked Total				9 8 17	6 0 6								15 8 23	
	Little White Salmon River	Marked Unmarked Total			160 8 168	2643 62 2705	1399 11 1410	50 3 53			3 0 3				4255 84 4339	
	Little White Salmon River System	Marked Unmarked Total			160 8 168	2652 70 2722	1405 11 1416	50 3 53			3 0 3				4270 92 4362	
METHOW RIVER SYSTEM	Methow River	Marked Unmarked Total				15 0 15	60 0 60								75 0 75	
OKANOGAN RIVER SYSTEM	Similkameen River	Marked Unmarked Total											5 0 5		5 0 5	
	Okanogan River System	Marked Unmarked Total											5 0 5		5 0 5	
ROCK CREEK SYSTEM	Rock Creek	Marked Unmarked Total				5 0 5						10 0 10			15 0 15	
SALMON CREEK SYSTEM	Salmon Creek	Marked Unmarked Total							2 0 2		12 0 12					14 0 14
SKAMOKAWA CREEK SYSTEM	Skamokawa Creek	Marked Unmarked Total							4 0 4	0 2 2		2 0 2	2 0 2			8 2 10

				Colum	bia Ri	ver and	l Tribu	taries	1							
		Marked/		1	Summe	[.] 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
SNAKE RIVER MAINSTEM SYSTEM	Below Ice Harbor Dam	Marked Unmarked Total					10 0 10	30 0 30	47 0 47	80 0 80	27 3 30	7 6 13			201 9 210	
	Ice Harbor Dam to Lwr Monumental Dam	Marked Unmarked Total					97 0 97	579 7 586	1222 17 1239	499 3 502	100 0 100	63 4 67	100 27 127	0 3 3	2660 61 2721	
	Lwr Monumental Dam to Little Goose Dam	Marked Unmarked Total					415 0 415	1473 7 1480	1179 17 1196	429 10 439	211 7 218	191 0 191	392 23 415		4290 64 4354	
1 t [Little Goose Dam to Lower Granite Dam	Marked Unmarked Total					23 0 23	147 0 147	342 0 342	198 0 198	171 7 178	157 14 171	178 10 188		1216 31 1247	
	Lower Granite Dam to Clarkston	Marked Unmarked Total				0 3 3	158 3 161	733 51 784	761 13 774	188 13 201	191 7 198	104 10 114	47 7 54		2182 107 2289	
	Snake River above Clarkston	Marked Unmarked Total				7 0 7	127 0 127	1983 7 1990	1574 34 1608	408 17 425	171 10 181	94 0 94	33 0 33	3 0 3	4400 68 4468	
	Snake River above Lower Granite Dam	Marked Unmarked Total				3 0 3			3 0 3	3 0 3		17 0 17	10 0 10		36 0 36	
	Snake River System	Marked Unmarked Total				10 3 13	830 3 833	4945 72 5017	5128 81 5209	1805 43 1848	871 34 905	633 34 667	760 67 827	3 3 6	14985 340 15325	
TUCANNON RIVER SYSTEM	Tucannon River	Marked Unmarked Total		3 0 3	5 0 5		46 0 46	124 0 124	272 0 272	199 0 199	51 0 51	24 0 24	24 0 24		748 0 748	
WALLA WALLA RIVER SYSTEM	Mill Creek	Marked Unmarked Total						4 0 4	7 0 7	21 0 21	7 0 7	18 0 18	11 0 11		68 0 68	
	Touchet River	Marked Unmarked Total						7 0 7	88 0 88	57 0 57	57 0 57	141 4 145	127 0 127	32 0 32	509 4 513	

				Colum	nbia Ri	ver and	l Tribut	taries1	I							
		Marked/			Summe	r 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
WALLA WALLA RIVER SYSTEM (continued)	Walla Walla River	Marked Unmarked Total					152 0 152	675 18 693	399 0 399	255 7 262	110 0 110	209 0 209	53 0 53	4 0 4	1857 25 1882	
	Walla Walla River System	Marked Unmarked Total					152 0 152	686 18 704	494 0 494	333 7 340	174 0 174	368 4 372	191 0 191	36 0 36	2434 29 2463	
WASHOUGAL RIVER SYSTEM	Washougal River	Marked Unmarked Total	41 0 41	13 0 13	44 0 44	13 0 13		13 0 13		7 0 7	22 0 22	15 0 15	2 0 2	0 2 2	124 0 124	46 2 48
	Washougal River, West Fork	Marked Unmarked Total		13 0 13	19 0 19	3 0 3	13 0 13		2 0 2		2 0 2				48 0 48	4 0 4
	Washougal River System	Marked Unmarked Total	41 0 41	26 0 26	63 0 63	16 0 16	13 0 13	13 0 13	2 0 2	7 0 7	24 0 24	15 0 15	2 0 2	0 2 2	172 0 172	50 2 52
WENATCHEE RIVER SYSTEM	Wenatchee River	Marked Unmarked Total				20 0 20	40 0 40	20 0 20		5 0 5					85 0 85	
WHITE SALMON RIVER SYSTEM	Big White Salmon River	Marked Unmarked Total	3 0 3	3 0 3	222 3 225	1135 17 1152	372 9 381	9 0 9				3 0 3		3 0 3	1750 29 1779	
WIND RIVER SYSTEM	Wind River	Marked Unmarked Total				31 5 36		5 0 5							36 5 41	
	Wind River above Shipherd Falls	Marked Unmarked Total		3 0 3	28 0 28	8 2 10	3 0 3								42 2 44	
	Wind River below Shipherd Falls	Marked Unmarked Total	3 0 3	3 2 5		289 3 292	105 0 105	3 0 3							403 5 408	
	Wind River System	Marked Unmarked Total	3 0 3	6 2 8	28 0 28	328 10 338	108 0 108	8 0 8							481 12 493	
YAKIMA RIVER SYSTEM	Bumping River	Marked Unmarked Total						5 0 5					5 0 5		10 0 10	
	Tieton River	Marked Unmarked Total						5 0 5	20 0 20						25 0 25	

				Colur	nbia Ri	ver and	d Tribu	taries								
•		Marked/			Summe	r 1997		Î			Winter	1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winte
YAKIMA RIVER SYSTEM (continued)	Yakima River	Marked Unmarked Total								5 0 5	10 0 10				15 0 15	
	Yakima River System	Marked Unmarked Total						10 0 10	20 0 20	5 0 5	10 0 10		5 0 5		50 0 50	
COLUMBIA RIVER AND SYSTEMS TOTALS) TRIBUTARY	Marked Unmarked Total	625 31 653	2385 36 2421	5676 110 5786	9217 211 9428	4787 57 4844	7705 154 7859	8140 124 8264	4252 87 4339	3305 71 3376	2511 69 2580	2443 90 2533	522 10 532	47883 950 48833	368 10 378
			C	oast Ri	ivers a	nd Mar	ine Cat	tch Are	eas							
_	Marked/ System Catch Area Unmark				Summe	r 1997					Winter	1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winte
BEAR RIVER SYSTEM	Bear River	Marked Unmarked Total									3 0 3					(
CEDAR CREEK SYSTEM*	Cedar Creek	Marked Unmarked Total										3 0 3				(
CHEHALIS RIVER SYSTEM*	Chehalis River above Black River	Marked Unmarked Total			3 0 3	3 0 3					6 0 6	11 0 11	3 0 3		6 0 6	2
	Chehalis River below Black River	Marked Unmarked Total				3 0 3	14 0 14			3 0 3	39 0 39	90 6 96	116 0 116		17 0 17	
	Newaukum River & North Fork	Marked Unmarked Total		6 0 6							3 0 3	6 0 6	39 3 42		6 0 6	4 5
	Satsop River, Middle & East Fk	Marked Unmarked Total								3 0 3	8 0 8	14 6 20	8 0 8			3
	Skookumchuck River	Marked Unmarked Total	3 0 3	3 0 3						3 0 3	3 0 3	87 9 96	287 3 290	180 6 186	6 0 6	56 1 57
	Wishkah River	Marked Unmarked Total				3 0 3						11 0 11	11 0 11		3 0 3	

			Co	oast Ri	vers ar	nd Mari	ne Cat	ch Are	eas							
		Marked/			Summer	1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
CHEHALIS RIVER SYSTEM (continued)	Wynoochee River	Marked Unmarked Total	6 0 6	469 14 483	304 3 307	108 0 108	28 0 28	45 0 45	14 0 14	104 3 107	220 3 223	208 9 217	358 11 369		960 17 977	26
	Chehalis River System	Marked Unmarked Total	9 0 9	478 14 492	307 3 310	117 0 117	42 0 42	45 0 45	14 0 14	113 3 116	279 3 282	427 30 457	822 17 839	180 6 186	998 17 1015	59
ELK RIVER SYSTEM*	Elk River	Marked Unmarked Total								6 0 6	9 0 9					15 0 15
GOODMAN CREEK SYSTEM*	Goodman Creek	Marked Unmarked Total								3 0 3						3 0 3
HOH RIVER SYSTEM*	Hoh River	Marked Unmarked Total				3 0 3				4 3 7	7 0 7	4 0 4			3 0 3	3
	Hoh River above Hwy. 101	Marked Unmarked Total		3 0 3	6 0 6	3 0 3	3 0 3				11 0 11	36 7 43	7 0 7		15 0 15	7
	Hoh River below Hwy. 101	Marked Unmarked Total		3 3 6	3 0 3		6 0 6	3 0 3	4 0 4	14 0 14	164 0 164	118 0 118	18 0 18		15 3 18	0
	Hoh River System	Marked Unmarked Total		6 3 9	9 0 9	6 0 6	9 0 9	3 0 3	4 0 4	18 3 21	182 0 182	158 7 165	25 0 25		33 3 36	10
HOQUIAM RIVER SYSTEM*	Hoquiam River	Marked Unmarked Total								3 0 3	6 0 6					9 0 9
HUMPTULIPS RIVER SYSTEM*	Humptulips River	Marked Unmarked Total		39 3 42	26 0 26	13 0 13	13 3 16	13 0 13	3 0 3	80 0 80	122 0 122	22 0 22			104 6 110	-
	Humptulips River East Fork	Marked Unmarked Total				3 0 3					2 0 2	2 0 2			3 0 3	0
	Humptulips River West Fork	Marked Unmarked Total				3 0 3					2 0 2				3 0 3	0

			Co	oast Riv	vers ai	nd Mari	ine Cat	ch Are	eas							
		Marked/		1	Summe	r 1997					Winter	1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
HUMPTULIPS RIVER SYSTEM (continued)	Stevens Creek	Marked Unmarked Total				3 0 3	3 0 3			3 0 3	32 0 32	10 0 10	2 0 2		6 0 6	Ŭ,
	Humptulips River System	Marked Unmarked Total		39 3 42	26 0 26	22 0 22	16 3 19	13 0 13	3 0 3	83 0 83	158 0 158	34 0 34	2 0 2		116 6 122	0
JOHNS RIVER SYSTEM*	Johns River	Marked Unmarked Total								6 0 6	12 0 12					18 0 18
KALALOCH CREEK SYSTEM*	Kalaloch Creek	Marked Unmarked Total								0 3 3						0 3 3
MOSQUITO RIVER SYSTEM*	Mosquito Creek	Marked Unmarked Total								3 0 3	12 0 12					15 0 15
NASELLE RIVER SYSTEM	Naselle River System	Marked Unmarked Total					2 0 2			3 0 3	6 3 9	3 3 6	9 0 9		2 0 2	21 6 27
NEMAH RIVER SYSTEM	Nemah River System	Marked Unmarked Total									15 0 15	6 0 6				21 0 21
NORTH RIVER SYSTEM	North River	Marked Unmarked Total								3 3 6	3 0 3	6 0 6				12 3 15
	Smith Creek	Marked Unmarked Total										6 3 9				6 3 9
	North River System	Marked Unmarked Total								3 3 6	3 0 3	12 3 15				18 6 24
OZETTE RIVER SYSTEM*	Big River	Marked Unmarked Total									3 0 3					3 0 3
PALIX RIVER SYSTEM	Palix River	Marked Unmarked Total								9 0 9		0 3 3				9 3 12

			Co	oast Riv	vers ar	nd Mari	ne Cat	ch Are	as							
		Marked/		:	Summe	[.] 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
QUEETS RIVER SYSTEM*	Clearwater River	Marked Unmarked Total						3 0 3			3 0 3	3 3 6	19 6 25		3 0 3	25 9 34
	Queets River	Marked Unmarked Total		3 0 3			11 0 11		3 0 3	15 31 46	6 6 12		6 0 6	3 0 3	14 0 14	33 37 70
	Salmon River	Marked Unmarked Total				3 0 3		3 0 3	12 3 15	34 18 52	34 24 58	6 6 12			6 0 6	86 51 137
	Queets River System	Marked Unmarked Total		3 0 3		3 0 3	11 0 11	6 0 6	15 3 18	49 49 98	43 30 73	9 9 18	25 6 31	3 0 3	23 0 23	144 97 241
QUILLAYUTE RIVER YSTEM*	Bogachiel River	Marked Unmarked Total	3 0 3	0 3 3	6 0 6	3 0 3	3 0 3		20 0 20	130 8 138	110 0 110	49 4 53	33 16 49	8 57 65	15 3 18	350 85 435
	Calawah River, and South Fork	Marked Unmarked Total	3 0 3	28 0 28	59 0 59	28 0 28	48 0 48	17 0 17	20 0 20	57 4 61	122 0 122	12 0 12	4 0 4	0 28 28	183 0 183	215 32 247
	Dickey River	Marked Unmarked Total												0 4 4		0 4 4
	Quillayute River	Marked Unmarked Total				2 0 2				4 4 8	41 0 41	47 4 51	41 0 41		2 0 2	133 8 141
	Sol Duc River	Marked Unmarked Total		5 3 8	17 0 17	17 0 17	17 0 17	20 0 20	41 4 45	16 12 28	16 12 28	8 29 37	8 8 16	4 12 16	76 3 79	93 77 170
	Quillayute River System	Marked Unmarked Total	6 0 6	33 6 39	82 0 82	50 0 50	68 0 68	37 0 37	81 4 85	207 28 235	289 12 301	116 37 153	86 24 110	12 101 113	276 6 282	791 206 997
QUINAULT RIVER SYSTEM*	Quinault River, Lower and Cook Ck. ²	Marked Unmarked Total								410 0 410	277 1 278	180 45 225	123 190 313	11 98 109		1001 334 1335
	Quinault River, Upper	Marked Unmarked Total								0 10 10	0 5 5	5 0 5	15 5 20			20 20 40
	Quinault River System	Marked Unmarked Total								410 10 420	277 6 283	185 45 230	138 195 333	11 98 109		1021 354 1375

			Co	oast Riv	vers ar	nd Mari	ne Cat	ch Are	eas							
0 /		Marked/			Summe	[.] 1997					Winter	1998			Tota	al
System	Catch Area	Unmarked	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winte
RAFT RIVER SYSTEM*	Raft River	Marked Unmarked Total									3 0 3					
WILLAPA RIVER SYSTEM	Willapa River	Marked Unmarked Total		2 0 2	4 0 4		2 0 2	2 0 2		9 0 9		11 4 15			10 0 10	2
	Willapa River, South Fork	Marked Unmarked Total							6 0 6		15 0 15					21 (21
	Willapa River System	Marked Unmarked Total		2 0 2	4 0 4		2 0 2	2 0 2	6 0 6	9 0 9	15 0 15	11 4 15			10 0 10	4
MARINE CATCH AREAS	Area 1: Ledbetter Point	Marked Unmarked Total				2 2 4		4 0 4							6 2 8	
	Area 2: Westport*	Marked Unmarked Total				0 2 2	1 0 1								1 2 3	
	Area 2A: Willapa Bay	Marked Unmarked Total					1 0 1								1 0 1	
	Area 2B: Grays Harbor*	Marked Unmarked Total						1 0 1	4 0 4	2 0 2	2 0 2				1 0 1	((
	Area 4: Cape Flattery*	Marked Unmarked Total			1 0 1										1 0 1	
	Marine Waters Totals	Marked Unmarked Total			1 0 1	2 4 6	2 0 2	5 0 5	4 0 4	2 0 2	2 0 2				10 4 14	
COAST RIVERS/STR AREAS	EAMS, AND MARINE	Marked Unmarked Total	15 0 15	561 26 587	429 3 432	200 4 204	152 3 155	111 0 111	127 7 134	927 99 1026	1317 54 1371	964 141 1105	1107 242 1349	206 205 411	1468 36 1504	74

	Pug	et Sound a	nd Strai	t of Jua	an De F	⁻ uca Ri	iver Sy	stems	and Ma	arine C	atch A	reas				
a .		Marked/			Summe	r 1997					Winter	1998			Tot	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
CLALLAM RIVER SYSTEM*	Clallam River	Marked Unmarked Total		3 0 3							5 0 5				3 0 3	5 0 5
DOSEWALLIPS RIVER SYSTEM*	Dosewallips River	Marked Unmarked Total							5 0 5	3 0 3		3 0 3				11 C 11
DUCKABUSH RIVER SYSTEM*	Duckabush River	Marked Unmarked Total							3 0 3	3 0 3		3 0 3				g C g
DUNGENESS RIVER SYSTEM*	Dungeness River	Marked Unmarked Total						3 0 3	3 0 3		3 2 5	14 0 14			3 0 3	20 2 22
EAST TWIN RIVER SYSTEM*	East Twin River	Marked Unmarked Total							0 5 5			3 0 3				3 5 8
ELWHA RIVER SYSTEM*	Elwha River	Marked Unmarked Total		10 0 10	17 0 17			0 3 3		16 0 16	33 0 33	35 0 35			27 3 30	84 C 84
GREEN-DUWAMISH RIVER SYSTEM*	Green-Duwamish River	Marked Unmarked Total	9 0 9	93 12 105	126 39 165	189 9 198	105 15 120	51 6 57	118 13 131	111 13 124	122 6 128	188 10 198	45 6 51		573 81 654	584 48 632
HOKO RIVER SYSTEM*	Hoko River	Marked Unmarked Total								19 14 33	22 8 30	13 3 16				54 25 79
LAKE WASHINGTON SYSTEM*	Lake Washington	Marked Unmarked Total					3 0 3								3 0 3	
	Sammamish R.	Marked Unmarked Total			10 0 10	3 0 3		7 0 7							20 0 20	
	Lake Washington System	Marked Unmarked Total			10 0 10	3 0 3	3 0 3	7 0 7							23 0 23	
LITTLE QUILCENE RIVER SYSTEM*	Little Quilcene River	Marked Unmarked Total				3 0 3									3 0 3	

	Puç	get Sound ar	nd Strai				iver Sy	stems	and Ma	arine C	atch A	reas				
Sustam	Catch Area	Marked/ Unmarked			Summe	er 1997					Winter	1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
LYRE RIVER SYSTEM*	Lyre River	Marked Unmarked Total		2 0 2	15 3 18	24 0 24	19 0 19	11 0 11	5 0 5	18 0 18	50 0 50	14 0 14			71 3 74	
MORSE CREEK SYSTEM*	Morse Creek	Marked Unmarked Total		7 0 7	0 3 3					16 0 16	17 5 22	35 0 35			7 3 10	5
NISQUALLY RIVER SYSTEM*	Nisqually River	Marked Unmarked Total										3 2 5	5 0 5			8 2 10
NOOKSACK RIVER SYSTEM*	Nooksack River, Middle Fork	Marked Unmarked Total										3 0 3				3 0 3
	Nooksack River, North Fork	Marked Unmarked Total				0 3 3									0 3 3	
	Nooksack River, Mainstem	Marked Unmarked Total									5 0 5	25 5 30	14 5 19			44 10 54
	Nooksack River System	Marked Unmarked Total				0 3 3					5 0 5	28 5 33	14 5 19		0 3 3	10
PUYALLUP RIVER SYSTEM*	Carbon River	Marked Unmarked Total					5 0 5				7 0 7	14 0 14	14 0 14		5 0 5	0
	Puyallup River	Marked Unmarked Total					2 0 2		7 0 7	22 0 22	36 0 36	25 0 25	14 0 14		2 0 2	0
	Stuck (White) River	Marked Unmarked Total								7 0 7	4 0 4	4 0 4				15 0 15
	Puyallup River System	Marked Unmarked Total					7 0 7		7 0 7	29 0 29	47 0 47	43 0 43	28 0 28		7 0 7	0
PYSHT RIVER SYSTEM*	Pysht River	Marked Unmarked Total							0 5 5	0 5 5	5 0 5	5 0 5	3 0 3			13 10 23

	Pug	jet Sound a	nd Strai	t of Jua	an De l	Fuca R	iver Sy	stems	and Ma	arine C	atch A	reas				
System	Catch Area	Marked/ Unmarked			Summe	er 1997					Winter	1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winter
SALT CREEK SYSTEM*	Salt Creek	Marked Unmarked Total									8 0 8					8 0 8
SAMISH RIVER SYSTEM*	Samish River	Marked Unmarked Total									5 0 5	8 0 8				13 0 13
SEKIU RIVER SYSTEM*	Sekiu River	Marked Unmarked Total					0 3 3			3 0 3		3 0 3			0 3 3	6 0 6
SIEBERT CREEK SYSTEM*	Siebert Creek	Marked Unmarked Total											3 0 3			3 0 3
SKAGIT RIVER SYSTEM*	Baker River	Marked Unmarked Total			7 0 7	14 0 14	29 0 29	7 0 7							57 0 57	
	Cascade River	Marked Unmarked Total				14 0 14		29 7 36	6 0 6	3 0 3		3 0 3			43 7 50	0
	Sauk River	Marked Unmarked Total				7 0 7			3 0 3	8 3 11	3 3 6	23 0 23			7 0 7	37 6 43
	Skagit River	Marked Unmarked Total		21 0 21	65 7 72	42 8 50		14 0 14	17 0 17	22 15 37	130 17 147	57 0 57	46 11 57	26 0 26	142 15 157	
	Skagit River System	Marked Unmarked Total		21 0 21	72 7 79	77 8 85	29 0 29	50 7 57	26 0 26	33 18 51	133 20 153	83 0 83	46 11 57	26 0 26	249 22 271	
SKOKOMISH RIVER SYSTEM*	Skokomish River South Fork and North Fork	Marked Unmarked Total			3 0 3				5 0 5				5 0 5		3 0 3	10 0 10
SKOOKUM CREEK SYSTEM*	Skookum Creek	Marked Unmarked Total		3 0 3											3 0 3	

	Pug	jet Sound a	nd Strai	t of Ju	an De	Fuca R	iver Sy	stems	and Ma	arine C	atch A	reas				
Questions	Ostala Anas	Marked/			Summe	er 1997					Winter	1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winte
SNOHOMISH RIVER SYSTEM*	Pilchuck River	Marked Unmarked Total								5 5 10	18 5 23	31 5 36				54 15 69
	Raging River	Marked Unmarked Total					3 0 3	49 0 49	21 0 21	5 0 5	28 0 28	8 0 8			52 0 52	
	Skykomish River	Marked Unmarked Total	3 0 3	410 5 415	542 22 564	1119 5 1124	361 0 361	251 0 251	167 3 170	111 15 126	206 5 211	352 13 365	36 3 39	0 5 5	2688 32 2718	
	Skykomish River, North Fork	Marked Unmarked Total		11 0 11	13 0 13	35 3 38	37 3 40		8 2 10	26 0 26	8 2 10	13 2 15			96 6 102	
	Skykomish River, South Fork	Marked Unmarked Total		8 0 8	3 2 5		0 3 3				5 0 5				11 5 16	
	Snohomish River	Marked Unmarked Total		140 3 143	200 0 200	22 0 22	3 0 3	13 0 13	10 0 10	20 3 23	180 5 185	39 0 39	10 0 10		378 3 381	
	Snoqualmie River	Marked Unmarked Total	3 0 3	30 0 30	94 0 94	127 11 138	59 11 70	43 0 43	33 3 36	157 13 170	172 3 175	103 5 108	28 0 28		356 22 378	2
	Sultan River	Marked Unmarked Total		3 0 3		3 0 3		8 0 8	5 0 5	8 0 8	23 3 26	10 0 10			14 0 14	
	Tokul Creek	Marked Unmarked Total								18 0 18	13 0 13	72 0 72	5 0 5			10 10
	Tolt River	Marked Unmarked Total								28 5 33	13 0 13	15 0 15				5
	Wallace River	Marked Unmarked Total					3 0 3	3 0 3		13 0 13	31 0 31	13 0 13			6 0 6	
	Snohomish River System	Marked Unmarked Total	6 0 6	602 8 610	852 24 876	1306 19 1325	466 17 483	367 0 367	544 8 252	391 41 432	697 23 720	656 25 681	79 3 82	0 5 5	3599 68 3667	1

	Pug	et Sound ar	nd Strai	t of Jua	an De I	⁻ uca R	iver Sy	stems	and Ma	arine C	atch A	reas				
0 /		Marked/			Summe	r 1997					Winter	[.] 1998			Tot	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winte
SQUALICUM CREEK SYSTEM*	Squalicum Creek	Marked Unmarked Total										3 0 3				303
STILLAGUAMISH RIVER SYSTEM*	Canyon Creek	Marked Unmarked Total		4 0 4				14 0 14	0 2 2	6 2 8	6 0 6	12 0 12			18 0 18	2
	Jim Creek	Marked Unmarked Total	4 0 4								2 0 2				4 0 4	2
	Pilchuck Creek	Marked Unmarked Total								2 0 2						(
	Stillaguamish River	Marked Unmarked Total				7 0 7	0 4 4			4 0 4					7 4 11	2 (2
	Stillaguamish River, North Fork	Marked Unmarked Total	18 3 21	28 0 28	116 3 119	88 0 88	109 0 109	25 0 25	22 2 24	45 6 51	34 0 34	31 4 35	12 2 14	2 4 6	384 6 390	
	Stillaguamish River, South Fork	Marked Unmarked Total			39 3 42		14 0 14	7 0 7	2 0 2	2 2 4	4 0 4	4 0 4			60 3 63	2
	Stillaguamish River System	Marked Unmarked Total	22 3 25	32 0 32	155 6 161	95 0 95	123 4 127	46 0 46	24 4 28	59 10 69	46 0 46	47 4 51	12 2 14	2 4 6	473 13 486	24
WEST TWIN RIVER SYSTEM*	West Twin River	Marked Unmarked Total		3 0 3	3 0 3		7 0 7								13 0 13	
WHATCOM CREEK SYSTEM*	Whatcom Creek	Marked Unmarked Total				3 0 3					5 0 5				3 0 3	5 (
MARINE CATCH AREAS*	Area 5: West Juan de Fuca Strait	Marked Unmarked Total									8 0 8					8 (8
	Area 6: East Juan de Fuca Strait	Marked Unmarked Total			7 0 7					4 0 4	0 4 4				7 0 7	

	Pug	et Sound ar	nd Strai	t of Ju	an De l	Fuca R	iver Sy	stems	and Ma	arine C	atch A	reas				
		Marked/			Summe	er 1997					Winter	[.] 1998			Tota	al
System	Catch Area	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Summer	Winte
MARINE CATCH AREAS* (continued)	Area 8: Skagit Bay-Port Susan	Marked Unmarked Total						44 0 44							44 0 44	
	Area 9: Admiralty Inlet	Marked Unmarked Total							8 0 8	24 0 24	37 0 37	12 4 16	8 0 8			89 2 93
	Area 11: Puget Sound, Middle	Marked Unmarked Total			7 0 7										7 0 7	
	Marine Catch Areas	Marked Unmarked Total			14 0 14			44 0 44	8 0 8	28 0 28	45 4 49	12 4 16	8 0 8		58 0 58	101 8 109
PUGET SOUND, STRA DE FUCA RIVER SYST MARINE CATCH AREA	EMS AND	Marked Unmarked Total	37 3 40	776 20 796	1267 82 1349	1700 39 1739	759 39 798	579 16 595	448 35 483	729 101 830	1248 68 1316	1199 53 1252	248 27 275	28 9 37	5118 199 5317	293

		9	Statewi	de Ste	elhead	Harves	t Sumn	nary, 19	997-98						
_		Marked/			Summ	er 1997					Winte	r 1998		Ĩ	_
System	Run Type	Unmarked	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	Tota
NON-BOLDT CASE AREAS	SUMMER 1997	Marked Unmarked Total	625 31 656	2387 36 2423	5680 110 5790	9219 215 9434	4793 57 4850	7711 154 1865	7744 121 7865	3486 55 3541	1832 42 1874	2030 50 2080	2117 80 2197	279 3 282	4790 95 4885
	WINTER 1997-98	Marked Unmarked Total							402 3 405	796 35 831	1527 32 1559	513 32 545	335 10 345	243 7 250	381 11 393
BOLDT CASE AREAS*	SUMMER 1997	Marked Unmarked Total	52 3 55	1335 46 1381	1692 85 1777	1898 39 1937	905 42 947	684 16 700							650 23 679
	WINTER 1997-98	Marked Unmarked Total							569 42 611	1626 197 1823	2511 119 2630	2131 181 2312	1346 269 1615	234 214 448	84 102 943
TOTAL	SUMMER 1997	Marked Unmarked Total	677 34 711	3722 82 3804	7372 195 7567	11117 254 11371	5698 99 5797	8395 170 8565	7744 121 7865	3486 55 3541	1832 42 1874	2030 50 2080	2117 80 2197	279 3 282	5446 118 5565
	WINTER 1997-98	Marked Unmarked Total							971 45 1016	2422 232 2654	4038 151 4189	2644 213 2857	1681 279 1960	477 221 698	1223 114 1333
TOTAL RIVERS ³			25	53	58	73	73	66	67	93	106	98	64	25	80

1

The majority of the Columbia River System steelhead are summer-runs. Winter steelhead catches are from angler surveys conducted by the Quinault Indian Nation. Total number of rivers where steelhead were harvested during that month. 2 3

County of	Number of Catch	Population by	Percentage of Catch	Total	Average Catch per
Residence	Record Cards	County	Record Card Holders	Steelhead	Catch Record Card
Adams	282	15,800	1.78	409	1.45
Asotin Benton	915 3,964	19,700 134,100	4.64 2.96	2,387 5,109	2.61 1.29
Chelan	399	62,200	0.64	205	0.51
Clallam	1,916	66,400	2.89	944	0.49
Clark	5,779	316,800	1.82	2,455	0.42
Columbia Cowlitz	173 3,928	4,200 92,000	4.12 4.27	645 3,667	3.73 0.93
Douglas Ferry	262 8	30,800 7,300	0.85 0.11	425 0	1.62 0.00
Franklin	o 1,036	43,900	2.36	1,390	1.34
Garfield	20	2,400	0.83	0	0.00
Grant	274	68,300	0.40	184	0.67
Grays Harbor	1,428	68,300	2.09	1,484	1.03
Island Jefferson	375 194	71,600 26,300	0.52 0.74	121 121	0.32 0.62
King	11,082	1,646,200	0.67	8,383	0.76
Kitsap	1,428	229,400	0.62	404	0.78
Kittitas	149	31,500	0.47	73	0.49
Klickitat	573	19,000	3.02	456	0.80
Lewis	1,726	68,300	2.53	1,464	0.85
Lincoln	113	9,800	1.15	220	1.95
Mason Okanogan	460 65	47,900 38,400	0.96 0.17	241 5	0.52 0.08
Pacific	371	21,300	1.74	220	0.59
Pend Oreille	48	11,200	0.43	16	0.33
Pierce	4,702	674,300	0.70	2,702	0.57
San Juan	36	12,500	0.29	10	0.28
Skagit	1,327	96,900	1.37	876	0.66
Skamania Snohomish	113 5,122	9,900 551,200	1.14 0.93	31 3,242	0.27 0.63
Spokane	2,730	409,900	0.67	5,094	1.86
Stevens	89	37,400	0.24	63	0.71
Thurston	2,351	197,600	1.19	918	0.39
Wahkiakum Walla Walla	432 1,561	3,900 54,000	11.08 2.89	1,348 4,296	3.12 2.75
Whatcom	1,282	156,200	0.82	1,485	1.16
Whitman	436	41,200	1.06	813	1.86
Yakima	3,823	208,700	1.83	6,248	1.63
Unknown USA	4	n/a	0.00	0	0.00
Washington Total	60,980	5,606,800	1.09	58,138	0.95
Other State Total	4,489	n/a	n/a	3,478	0.77
Canada	52	n/a	n/a	26	0.50
Foreign Unknown	8 2,726	n/a n/a	n/a n/a	0 7,386	0.00 2.71
Grand Total	68,255	n/a	n/a	69,028	1.01

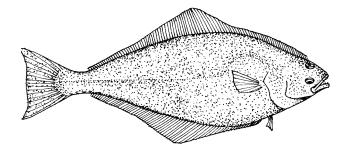
# of Steelhead Per Catch Record Card	# of Cards	Cumulative # of Cards	% Cards	Cumulative %Cards	Total Catch	Cumulative Total Catch	% Catch	Cumulati % Cate
0	50,765	50,765	74.28	74.28	0	0	0.00	0.
1	6,679	57,444	9.77	84.05	6,915	6,915	10.02	10.
2	3,700	61,144	5.41	89.47	7,661	14,576	11.10	21.
3	1,879	63,023	2.75	92.22	5,835	20,411	8.45	29
4	1,173	64,196	1.72	93.93	4,859	25,270	7.04	36
5	828	65,024	1.21	95.14	4,285	29,555	6.21	42
6	554	65,578	0.81	95.96	3,443	32,998	4.99	47
7	468	66,046	0.68	96.64	3,391	36,389	4.91	52
8	396	66,442	0.58	97.22	3,279	39,668	4.75	57
9	345	66,787	0.51	97.73	3,219	42,887	4.66	62
10	281	67,068	0.41	98.14	2,906	45,793	4.21	66
11	180	67,248	0.26	98.40	2,049	47,842	2.97	69
12	101	67,349	0.15	98.55	1,252	49,094	1.81	7
13	122	37,471	0.18	98.73	1,550	50,644	2.25	7:
14	115	67,586	0.17	98.90	1,669	52,313	2.42	7
15	94	67,680	0.14	99.04	1,453	53,766	2.10	7
16	101	67,781	0.15	99.19	1,669	55,435	2.42	80
17	58	67,839	0.08	99.27	1,013	56,448	1.47	8
18	79	67,918	0.12	99.39	1,475	57,923	2.14	8
19	57	67,975	0.08	99.47	991	58,914	1.44	8
20	43	68,018	0.06	99.53	894	59,808	1.30	86
21	29	68,047	0.04	99.57	626	60,434	0.91	87
22	36	68,083	0.05	99.62	820	61,254	1.19	88
23	43	68,126	0.06	99.68	1,028	62,282	1.49	90
24	58	68,184	0.08	99.76	1,431	63,713	2.07	92
25	14	68,198	0.02	99.78	373	64,086	0.54	92
26	36	68,234	0.05	99.83	969	65,055	1.40	94
27	29	68,263	0.04	99.87	805	65,860	1.17	85
28	7	68,270	0.01	99.88	306	66,166	0.44	95
29	29	68,299	0.04	99.92	864	67,030	1.25	97
30	43	68,342	0.06	100.00	1,997	69,028	2.88	100
otal	68,342		100.00		69,028		100.00	

Table 36A. 1997-98 Sport Steelhead Technical Catch Data	
Records on File	Estimates and Calculations
Name and Address File	16,283
Catch Record Cards in Sample Returns	9,495
Correction Data	
Correction Factor Percentage of voluntarily returned catch records with matching names and addresses	826 / 836 = .988
Name/Address Corrected for Dealer Non-Response	16,283 / 0.988 = 16,481
Estimated Number of Catch Records Issued	909 / .988 x 18.57 x 4 = 68,341
Catch Expansion Factor	68,341 / 9,495 = 7.20
Non-response bias adjustment based on telephone survey	1.02

Response	1						mber of Steel	neau		Catch Per Card	
Code*	Catch Records	Reminder Letters	Catch Records	Reminder Letters	Total Cards	Catch Records	Reminder Letters	Total Steelhead	Catch Records	Reminder Letters	Total
1 2 4 7 8	505 714 246 755 6	0 383 199 0 0	599 1,597 376 1,105 0	0 1,891 1,119 0 0	1,104 4,585 1,940 1,860 6	2,587 3,175 832 4,377 21	0 1,431 756 0 0	2,587 4,606 1,588 4,377 21	2.34 1.37 1.34 2.35 3.50	0 .63 .57 0 0	2.34 1.00 .82 2.35 3.50
Total	2,226	582	3,677	3,010	9,495	10,992	2,187	13,179	1.86	.61	1.39

4 After second reminder
7 From sporting goods dealer
8 Unknown return date







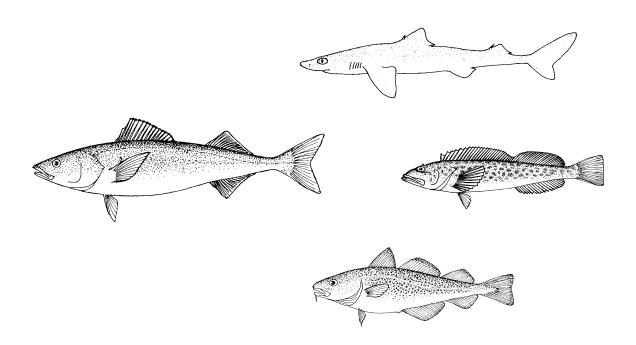


Table 37. 1997 Coastal Sport Bottomfish Catch						
Species	llwaco	Westport	La Push	Neah Bay	Total	
Black Rockfish	10,439	131,059	3,605	43,754	188,857	
Canary Rockfish	331	4,904	253	3,785	9,273	
China Rockfish	85	184	28	2,393	2,690	
Yelloweye Rockfish	127	2,173	360	2,085	4,745	
Blue Rockfish	517	1,274	249	4,217	6,257	
Yellowtail Rockfish	290	16,572	481	3,654	20,997	
Copper Rockfish	4	63	16	1,626	1,709	
Quillback Rockfish	25	516	91	2,233	2,865	
Bocaccio Rockfish	9	35	2	52	98	
Vermillion Rockfish	62	15	5	247	329	
Tiger Rockfish	12	48	16	188	264	
Cabezon	298	280	56	2,124	2,758	
Lingcod	629	6,884	807	11,177	19,497	
Kelp Greenling	146	442	138	4,213	4,939	
Pacific Halibut	55	87	0	0	142	
Flatfish (general)	14	101	3	516	634	
Pacific Cod	0	2	80	1,407	1,417	
Cod (general)	0	7		45	52	
Surfperch (general)	1,400	190	0	15	1,605	
Skates & Rays	4	46	5	32	87	
Rockfish (general)	210	186	0	120	516	
Tuna	1,947	15,884	41	0	17,872	
Miscellaneous	123	2,306	227	2,895	5,551	
TOTAL	16,727	183,258	6,391	86,778	293,154	

Table 38. 1997 Washington	Table 38. 1997 Washington Recreational Pacific Halibut Catch						
Year	South Coast Catch Areas 1-2	North Coast Catch Areas 3-4					
1989	368	11,373					
1990	392	4,958					
1991	433	4,823					
1992	1,740	6,870					
1993	539	5,009					
1994	651	2,876					
1995	884	4,224					
1996	877	4,431					
1997	1,455	5,996					

a .	Catch Record Area									
Species	5	6	7	8	9	10	11	12	13	Sound Total
Pacific halibut Flatfishes except halibut Sablefish	209	19	172	9,490	9,680	9,030	10,975	21,781	10,756	2,816 72,112 0
Lingcod Rockfishes Pacific cod	3,351 25,919 428	225 6,272 180	403 5,151	163 7,444 13	135 1,457 23	76 3,386 30	134 1,093	47 5,205	205 1,224	4,739 57,151 674
Walleye pollock Surfperches Sculpins	617	5,107 5	593 1,054	13,496 95	52	1,634 71	7 432		1,441	0 20,837 3,767
Spiny dogfish Misc. bottomfish	2,033	330 993	221 1,362	23 6,985	366 105	224 35	4 151		614 71	1,782 11,735
Total	32,557	13,131	8,956	37,709	11,818	14,486	12,796	27,033	14,311	175,613

Note: The catch of Pacific halibut is estimated by a catch record for halibut, and catches are not available for individual Catch Areas. The Puget Sound catch of halibut includes fish caught between Sekiu and Cape Flattery (Catch Record Area 4B). Since 1994, extensive seasonal closures of the recreational fishery in Puget Sound have prevented the estimation of bottomfish catch during many peak months in many catch areas.

Shellfish

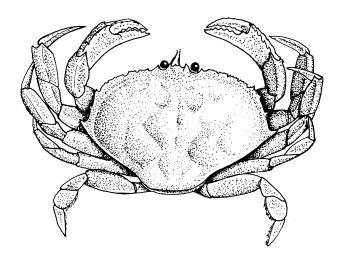


Table 40. Seasonal Summary of Sport Razor Clam Digging on the Ocean Beaches (1)										
	Fail 1997					Spring 1998				
Location	Digger Trips	Clams Per Trip	Percent Wastage (2)	Number of Clams (4)	Digger Trips	Clams Per Trips	Percent Wastage (2)	Number of Clams (4)		
Long Beach Twin Harbors Copalis Mocrocks Kalaloch(3)	38,000 31,000 9,000 10,000 1,000	9.3 11.4 14.1 9.6 12.2	n/a 6.2 12.0 8.0 n/a	256,000 384,000 147,000 104,000 12,000	16,000 33,000 0 21,000 5,000	8.8 12.5 14.8 8.7	0 5.0 4.0 0	139,000 433,000 0 317,000 42,000		
Total	89,000			903,000	75,000			931,000		

Note:

Seasonal summary from fall of one year through Spring of the next year. Detailed information available in WDFW Razor Clam progress report.
 Percent wastage is the percent of damaged/dead clams found in holes.
 Data collection at Kalaloch began in the fall 1995.
 Total number of clams includes wastage.

Catch Area Code and Description (2)			Pounds of Clams Harvested						Number	Pounds		
		User Trips (3)	Manila Littleneck	Native Littleneck	Butter	Cockle	Soft Shell	Horse	Geoduck	Total Clams	of Oysters	Oyster (4
20A 20B 21A	Gulf of Georgia North San Juan Islands Bellingham Bay	24,666 518 209	2,769 55 22	32,291 611 243	38,346 827 335	1,765 42 17	294 7 3	4,683 116 47		80,148 1,658 667	15,567 351 145	70 1
21B 22A 22B	Samish Bay South San Juan Islands Padilla Bay	1,864 2,752 2,321	117 266 217	1,383 3,147 2,607	2,048 3,552 3,695	110 159 197	13 31 24	332 448 603		4,003 7,603 7,343	860 1,298 1,519	3 5 6
23B 24A 24B	Northwest Whidbey Island Skagit Bay Port Susan	237 2,867 1,975	27 8 12	1,998 2,647	377 3,465 5,045	19 271 455	3 3 5	46 220 344		472 5,965 8,508	167 1,499 9	6 0.
24C 24D 25A	Saratoga Passage Holmes harbor Eastern Juan de Fuca Strait	29,778 3,410 5,776	80 20 851	39,691 4,929 6,640	72,573 87 4,301	7,225 702 2,028	78 8 60	4,158 561 3,020	8	123,805 6,307 16,908	50 11 17,566	0. 80
25B 25C 25D	Admiralty Inlet North Hood Canal Port Townsend Bay	11,774 17,473 640	2,934 10,334 151	12,952 12,730 429	12,775 13,341 602	3,918 8,194 153	178 345 7	6,503 10,985 660	33 10 1	39,260 55,939 2,003	11,420 89,252 168	52 4,06
25E 26A 26B	Discovery Bay Useless Bay/Possession Sound Seattle/Elliot Bay/Pt Madison	219 9,971 4,629	52 48 23	145 10,815 6,522	199 21,344 11,190	53 1,308 951	2 21 10	231 1,974 755		682 35,510 19,451	37 71 18	0
26C 26D 27A	Port Orchard Vashon/Commencement Bay North Central Hood Canal	4,731 4,400 37,755	26 22 54,399	6,766 5,942 5,488	11,713 10,528 5,255	926 865 5,100	11 10 482	750 687 2,831	106	20,192 18,054 73,661	14 16 392,876	0 0 17,89
27B 27C 28A	Central Hood Canal South Hood Canal Nisqually/Fox Island	10,755 33,961 5,451	8,284 9,162 1,964	3,518 12,979 4,592	3,441 13,261 15,601	2,053 9,238 53	244 1,101 249	1,664 1,096 2,979	11 6 1,280	19,215 46,843 26,718	107,345 371,256 17,428	4,88 16,91 79
28B 28C 28D	Carr Inlet Case Inlet Budd, Eld & Totten Inlet	6,351 6,505 4,357	2,391 3,179 1,319	2,808 5,167 4,178	8,881 22,788 9,005	36 56 32	116 354 184	2,969 2,934 1,866	223 1,295 543	17,424 35,773 17,127	13,139 19,048 19,514	59 80 81
Total		235,345	98,728	191,504	303,214	45,294	3,843	53,458	3,515	691,239	1,080,642	49,2

Includes both public and private tidelands.
 Boundaries of geographic areas are those prescribed by catch areas.
 Includes combined clam and oyster users.
 Estimated weight of shucked meats.

Table 42. 1997 Hood Canal Sport Shrimp Fishery							
Date	Pots Fished	Pounds	CPUE				
May 17	6,050	28,870	4.77				
May 21	3,580	17,160	4.80				
May 24	4,910	21,440	4.36				
May 28	3,010	13,680	4.55				
June 4	1,740	8,720	5.02				
Total	19,280	89,870	4.66				

Table	Table 43. 1997/98 Sport Crab Pot Fishery							
	Catch Code and Catch Area	Pot Days	Number of Dungeness Crabs					
20A	Gulf of Georgia	53,140	73,960					
20B	North of San Juan Islands	3,350	4,670					
21A	Bellingham Bay	7,140	11,760					
21B	Samish Bay	11,290	13,300					
22A	San Juan Islands	77,940	53,530					
22B	Anacortes	13,380	19,940					
23D	Port Angeles Harbor	13,520	19,540					
24A	Skagit Bay	54,710	31,360					
24B	Port Susan	11,880	3,280					
24C	Saratoga Passage	33,400	40,510					
24D	Holmes Harbor	7,470	1,890					
25A	Dungeness & Sequim Bays	28,960	23,680					
25B	Admiralty Inlet	280	140					
25C	Port Ludlow/Port Gamble	17,050	24,930					
25D	Port Townsend Bay	16,900	9,090					
25E	Discovery Bay	3,370	2,920					
26A	Useless Bay, Port Gardner	14,910	14,770					
26B	Seattle, Kingston	17,570	15,910					
26C	Port Orchard	1,350	1,220					
26D	Colvos Pass, East Pass	2,970	2,690					
27A	Upper Hood Canal	42,520	39,870					
27B	Central Hood Canal	9,060	17,860					
27C	Lower Hood Canal	41,870	45,470					
Total		484,030	469,290					



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