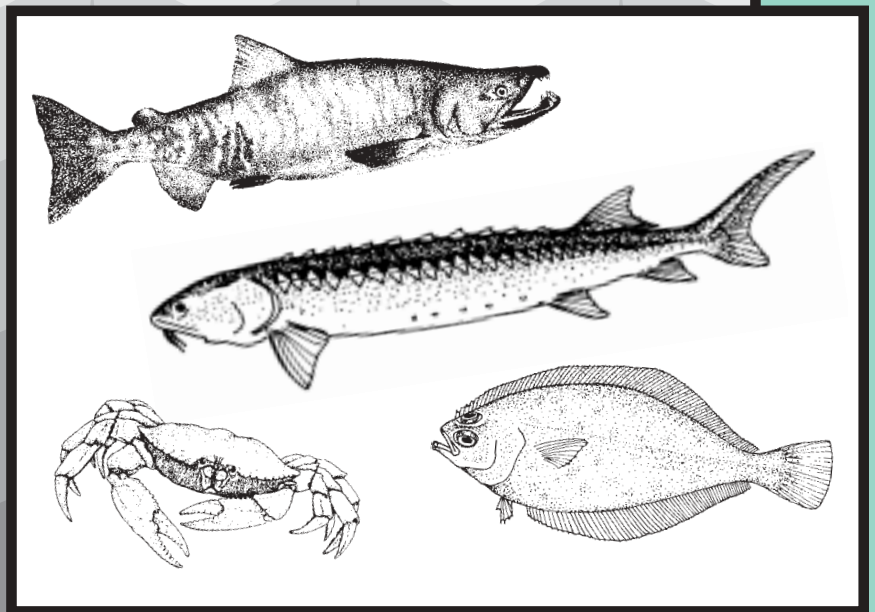


Washington State Sport Catch Report 1999



by Terrie Manning and Sheila Smith



Washington Department of
FISH AND WILDLIFE
Fish Program
Science Division

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INTRODUCTION

The Washington State Sport Catch Report was first published in 1967. The report originally provided salmon catch estimates which were and still are based on data from catch record cards (punch cards). Beginning in 1975, marine fish sport harvest estimates were reported in the sport catch report. In 1976, shellfish sport harvest was added. Marine fish and intertidal shellfish sport harvest estimates are based on field and creel surveys. In 1994, steelhead sport harvest estimates, from catch record cards, were added to the report. Now, catch record card data are collected for salmon, sturgeon, steelhead, Dungeness crab and halibut and supplemented with field or creel survey data or telephone surveys where and when possible to improve recreational harvest estimate accuracy. The sport harvest estimates for salmon, steelhead, sturgeon, marine fish and shellfish are produced at varying times of each year. For this reason, coupled with budget and staffing constraints, the 1999 edition of the Washington State Sport Catch Report is being published in August 2002.

January 1, 1999, a new licensing structure was implemented which changed the fishing season regulations and licenses issued. Licenses and catch record cards were issued which were valid from April 1, 1999 to March 31, 2000. Historically salmon, sturgeon, halibut, marine fish and shellfish estimates were made on a calendar year basis from January 1 through December 31. Steelhead estimates were summarized from May 1 of one year through April 30 of the next year to better capture the results of steelhead "run years", which typically span two calendar years. When comparing sport harvest estimate tables from past years to 1999 please notice that the 1999 reported harvest totals reflect the above change in the license structure.

SPORT LICENSES AND CATCH RECORD CARDS

In 1999, the following licenses and catch record cards were required to fish in Washington:

- ! A **saltwater license** was required for resident anglers 15 years of age and over, and for all non-resident anglers. This license allowed the holder to fish for any fish existing in saltwater. This license was available in resident annual, resident senior (ages 70 and over), non-resident annual and two-consecutive-day formats. In addition, a free **catch record card** was required of all anglers of all ages to fish for salmon, steelhead, 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 **freshwater license** was required for resident anglers 15 years of age and over, and for all non-resident anglers, to fish for any fish species existing in freshwater. This license was available in annual, and two day formats. A free **catch record card** was also required of anglers of all ages to fish for salmon, steelhead and for sturgeon in Columbia River, Grays Harbor, Willapa Bay and all tributaries of these three systems.

- ! A **shellfish/seaweed license** was required for resident and non-resident harvesters 15 years of age and older. This license allowed the holder to fish for crab, gooseneck barnacles, mussels, octopus, scallops, oysters, razor clams, sea cucumbers, softshell and hardshell clams, squid and seaweed. 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.
- ! A **combination license** was required for resident and non-resident harvesters 15 years of age and older to participate in all three of the above fishing activities.

Table *1* shows license sales from January 1, 1999 to March 31, 2000, 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 15 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, telephone interviews 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.

OCEAN CATCH DATA

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

STATISTICAL MONTHS AND STATISTICAL WEEKS

Some catch data (i.e. salmon and bottomfish) are reported using statistical months or statistical weeks. Statistical weeks (defined as Monday-Sunday) are consecutively numbered weeks beginning on January 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 2000, the statistical month of January begins on January 1st and ends January 30th and the statistical month of February starts on January 31st and ends February 27th. Since some data are 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 1999 are shown in Table 5. Between January 1, 1999, and March 31, 2000, a total of **146,706** salmon were caught in marine areas, plus an additional **92,607** salmon in freshwater. The marine totals by species, as shown in Table 6, were: **48,273** chinook; **69,409** coho; **2,819** chum; **25,988** pink; **190** jacks; and **27** sockeye. Freshwater species breakdowns show: **29,195** chinook; **37,038** coho; **4,835** chum; **11,303** pink; **139** sockeye; **10,036** jacks (all species combined); and **61** unknown salmon 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), and in area 5 during August 01-September 30. Area 5 creel survey results are provided in Table 24. In freshwater areas, creel survey estimates were substituted for the catch record card estimates in the Lower Columbia River February - October, Klickitat River April - May, Little White Salmon River in May, and the Wind River May - June. 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. It is believed they do not 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 a 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 (~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 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 sturgeon populations that can sustain a harvest. Harvest management responsibilities in the Columbia River are jointly shared by the states of Washington, 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.

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 1999, Washington and Oregon managed for a catch quota of 53,840 white sturgeon in the lower Columbia sport fishery. By July of 1999, managers had evaluated new information on population size and reduced the quota to 40,000 fish.

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 lower Columbia sport retention fishery remained open for the full 12 months and the actual combined white sturgeon catch for Washington and Oregon anglers in the lower Columbia fishery was 40,500. This season, the area from Beacon Rock upstream to Bonneville Dam

was closed from May 1 through June 30 to boats. This closure allowed the sturgeon to spawn without the additional pressure of potential harvest.

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 except for the harvest season, which was scheduled from January 1 through June 30. The annual sport harvest guideline for white sturgeon in Bonneville pool was 1,520. This guideline was projected to be reached by April 16 resulting in the states prohibiting retention from April 17 through December 31. The resulting harvest for 1999 was 1,236 in Bonneville Reservoir.

Sport regulations in The Dalles Reservoir included a 48-60 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 harvest season was set to run from January 1 through June 30 with an annual harvest guideline of 600-800. The guideline was projected to be reached by June 11 resulting in the states prohibiting retention from June 12 through December 31. The resulting harvest for 1999 was 694 in The Dalles Reservoir.

Sport regulations in the John Day Reservoir were the same as those in The Dalles Reservoir. The fishing season was also the same with an annual harvest guideline of 560. As of June 30 the harvest guideline had not been reached prompting managers to issue an emergency extension of the season. This guideline was projected to be reached by November 22 resulting in the states prohibiting retention from November 23 through December 31. The resulting harvest for 1999 was 422 in the John Day reservoir.

The reservoir sport fisheries upstream from McNary Dam operated under the same sport 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 prohibited year round. The fishing season for the areas allowed retention year round with the exception of the area from Old Hanford townsite wooden powerline towers to the Vernita Bridge. This area was open for retention of sturgeon from June 16 through October 22.

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. White sturgeon caught in Washington's coastal areas are thought to originate from the lower Columbia River based on tag recoveries from those fisheries. Sport regulations for these fisheries match those in the lower Columbia.

Total sport harvest for 1999 catch areas recorded, based on creel surveys and catch record card returns was **27,795** fish. Of this total **25,891** white sturgeon and **15** green sturgeon came from the

Columbia River system (Table 29). Another 374 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 578 white, 5 green and 14 unknown. Grays Harbor 855 white, 38 green, 25 unknown sturgeon. For monthly catch information see Table 29.

STEELHEAD

Harvest estimates for sport caught summer and winter steelhead are derived from a random sample of catch record cards from anglers throughout the state and creel surveys for steelhead in the lower Quinault River and Cook Creek. Steelhead caught during the months of May through October are “summer-runs” designated as SSH. Steelhead caught from November through April are “winter-runs” designated by WSH with the exception of steelhead caught above Bonneville Dam on the Columbia River, where they are considered “summer-runs” year round, because of run and spawn timing.

Table 33 presents steelhead sport harvest estimates for the 1999-2000 season geographically by stream and river system. Monthly estimate totals are given for marked (fish with clipped adipose or ventral fins) and unmarked (fish with intact adipose and ventral fins) steelhead.

MARINE FISH

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

The recreational catch of bottomfish and halibut in ocean waters (Catch Areas 1- 4) is estimated from marine surveys (Table 37 and 38). The estimates are made for each of the four main coastal fishing areas: Ilwaco, Westport, LaPush and Neah Bay.

The Puget Sound (Catch Areas 5-13) catch of bottomfish, excluding halibut, is estimated using a combination of two surveys: a creel survey of anglers to determine the catch rate and species composition and the salmon catch record card system to determine total fishing effort. It is important to note that an estimate of the bottomfish catch in Puget Sound is possible only when salmon fishing is open. Any bottomfish harvest in areas and times when salmon fishing is closed is excluded from these estimates. The totals shown on Table 39 are underestimates of the true catch, which is likely to be considerably higher.

The halibut catch in Puget Sound is estimated using a special survey of halibut catch record card holders. All persons fishing for halibut in Puget Sound Areas 5-13 are required to obtain a free halibut

catch record card and record each halibut they catch. At the end of the halibut season, a subsample of card holders is telephoned and asked to report their annual catch of halibut. This number is expanded to estimate the total halibut catch in Puget Sound. Due to the nature of this system, no estimate of halibut catch by catch record area is made and only the Puget Sound total is given. The recreational catch of forage fish is not routinely monitored and no harvest estimate is available.

SHELLFISH

Puget Sound recreational clam and oyster harvest estimates are shown in Table 40. 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 **246,853** sport harvester trips gathered **701,086** total pounds of clams, and **902,009** oysters in 1999.

In the spring of 1999, razor clamming was prohibited by the Washington State Department of Health (DOH) due to significantly high levels of Domoic Acid. Domoic Acid is a naturally occurring toxin produced by a microscopic marine diatom called *Nitzshia pungens*. Razor clams feeding on *Nitzshia pungens* may concentrate the toxin and become toxic to humans.

Short notice for emergency closures or cancellations due to marine toxins are a result of the specific sampling protocol established by DOH. The goal to have a resource safe for human consumption requires sampling no more than 7 days before the proposed opening by WDFW. Every effort is made to expedite the sample transport and analysis. There are still the limitations of low tide availability before the opening and the fact that it takes approximately 48 hours from the time the clams are harvested until the results can be announced. There is also the time required to use mass media to report any closure. New methods are being looked at to possibly expand these time periods and still have a resource safe to eat.

The Hood Canal sport shrimp fishery harvest is reported in Table 41. A total of **71,762** pounds of shrimp were caught in **16,767** pots. The sport crab pot fishery in the Puget Sound areas are summarized in Table 42. A total of **180,300** pot days produced an estimated harvest of **167,107** Dungeness crab.

SPORT LICENSES

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

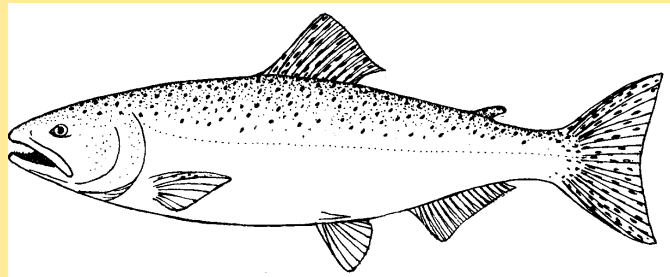
January 1-March 31, 1999 (Transition License*)			
Type of License	Price	Number	Value
Hunt/Fish/Shellfish			
Resident	\$6.00	129,357	\$758,142
Non-Resident	\$6.00	1,617	\$9,702
April 1, 1999 -March 31, 2000 License Year			
Saltwater			
Resident	\$18.00	49,277	\$886,986
Non-Resident	\$36.00	2,197	\$79,092
Senior	\$5.00	10,532	\$52,660
Freshwater			
Resident	\$20.00	344,413	\$6,888,260
Non-Resident	\$40.00	9,115	\$364,600
Senior	\$5.00	30,470	\$152,350
Shellfish/Seaweed			
Resident	\$7.00	143,839	\$1,006,873
Non-Resident	\$20.00	7,586	\$151,720
Senior	\$5.00	15,191	\$75,955
Combination (Saltwater/Freshwater/Shellfish)			
Resident	\$36.00	110,021	\$3,960,756
Non-Resident	\$72.00	887	\$63,684
Disabled Veteran	\$5.00	9,324	\$46,620
Youth	\$5.00	7,133	\$35,665
2-day Fishing			
FW/SW R/NR	\$6.00	190,473	\$1,142,838
Shellfish R/NR	\$6.00	15,453	\$92,718
* Beginning in 1999, the license year changed to April 1-March 31. To accommodate the change, an interim license was sold from January 1-March 31, 1999.			

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
1998	265,296
1999-2000	352,003

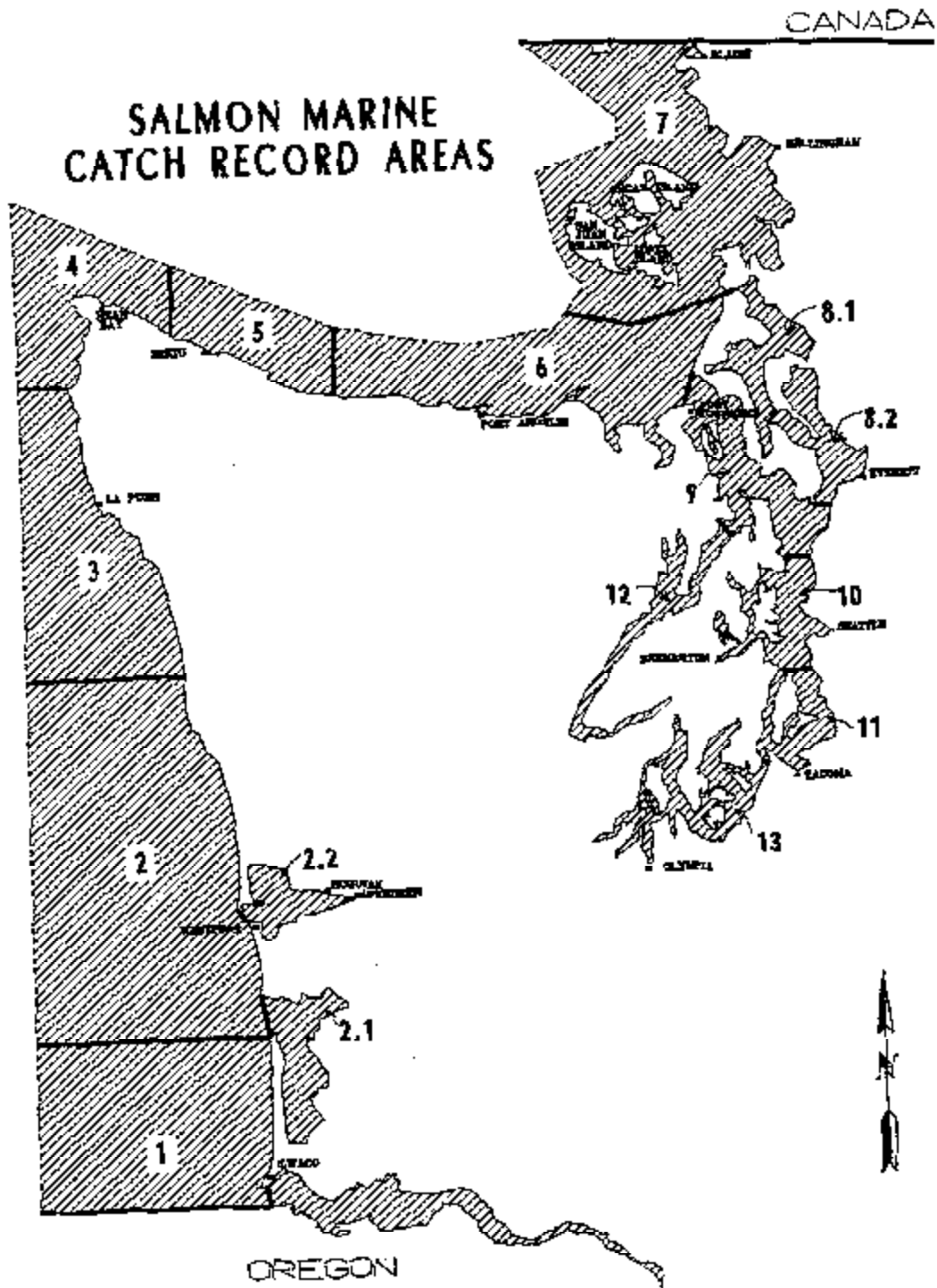
Year	Number of Cards Issued
1988	33,195
1989	35,576
1990	32,421
1991	32,396
1992	37,615
1993	43,067
1994	54,837
1995	62,572
1996	69,639
1997	76,806
1998	79,264
1999-2000	132,503

Table 4. Number of Sport Steelhead Catch Record Cards Issued 1948-1999	
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	no data
1976-77	no data
1977-78	no data
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
1998-99	85,636
1999-2000	183,520

SALMON



SALMON MARINE CATCH RECORD AREAS



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

Table 5. Annual Sport Salmon Catch

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	475,662	28,988	111,385	103,094	11,055	45,051	46,309	13,912	16,186	5,528	40,289	21,466	24,476	7,923	
1965	942,223	54,509	279,225	275,457	23,694	57,606	53,620	23,477	18,803	10,253	58,004	28,368	43,077	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	315,594	214,661	53,325	84,871	55,401	32,601	29,878	6,125	61,662	18,564	20,861	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	1,107,852	86,845	220,548	269,338	24,439	52,270	59,400	68,849	36,293	13,229	73,187	56,479	48,018	26,801	72,156
1979	1,123,809	88,659	167,478	174,365	24,160	53,840	134,354	70,839	48,101	33,835	104,619	71,167	71,495	20,006	60,891
1980	852,879	105,461	158,883	163,748	19,146	29,500	39,587	52,663	24,457	18,432	60,072	52,128	57,751	17,138	53,913
1981	760,115	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
1982	749,995	91,849	115,838	158,005	9,857	42,716	67,611	33,870	12,947	9,940	49,853	49,727	51,975	8,672	47,135
1983	860,623	108,783	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	660,528	107,734	93,927	93,620	2,062	26,878	122,357	37,287	19,569	20,904	61,829	27,155	31,373	4,027	11,806
1986	806,265	115,469	156,275	98,421	2,553	25,027	166,808	58,831	22,656	22,053	65,555	27,702	27,873	2,844	14,198
1987	744,284	110,636	123,441	71,458	3,005	29,418	128,613	67,738	22,329	25,842	70,945	34,699	26,942	7,301	21,917
1988	719,416	168,594	142,979	62,001	3,341	19,583	107,935	51,381	24,047	17,874	50,984	30,321	24,030	2,619	13,727
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	114,694	103,012	5,809	48,329	223,012	54,848	12,797	14,865	57,875	47,519	25,555	1,618	6,304
1991	932,319	153,719	230,582	107,310	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	156,825	61,142	1,069	60,358	Closed	Closed	518	1,184	8,322	5,218	6,978	23,279	25,360	8,905	10,305
1995	524,232	190,158	28,697	31,857	1,990	15,604	53,553	20,617	23,801	66,403	22,920	28,560	28,242	5,200	6,630
1996	391,202	161,424	21,391	29,059	1,901	8,750	41,820	18,103	15,486	15,580	20,343	18,972	25,417	6,408	6,548
1997	394,185	98,519	34,417	18,122	1,260	2,577	52,889	23,614	35,016	43,543	24,356	25,277	22,146	7,089	5,360
1998	235,469	78,667	10,102	13,647	762	8,045	24,509	6,657	5,801	14,504	24,324	16,674	17,272	7,782	6,723
1999	239,313	92,607	33,211	22,400	4,387	6,650	24,546	3,509	5,765	10,324	9,228	4,009	14,517	4,046	4,114

Note: In 1976, several area boundary lines were changed resulting in thirteen catch areas instead of twelve. The changes were mostly reflected in catch Areas 8, 9, 10, and new Area 13. In 1989, catch Area 8 was subdivided into Areas 8.1 and 8.2 and catch Area 2 was subdivided into Areas 2.1 and 2.2. For comparative purposes, the catch for Areas 8.1 and 8.2 are totaled and entered under Area 8. Similarly, the catch in Areas 2.1 and 2.2 are included in the total catch for Area 2.

Table 6. Total 1999-2000 Sport Salmon Catch

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 per Trip
Iiwaco-Ocean (Area 1)	2,324	19,662		3				21,989	20,745	1.06
Iiwaco-Buoy 10 (Area 1)	5,882	5,340						11,222	28,720	0.39
Westport (Area 2)	6,573	12,406	2	75				19,056	18,069	1.05
Willapa Bay (Area 2.1)	1,011	1,069	20			37		2,137	N/A	N/A
Grays Harbor (Area 2.2)	140	894		20		153		1,207	N/A	N/A
LaPush (Area 3)	943	3,274		170				4,387	3,468	1.26
Neah Bay (Area 4)	37	4,673		1,940				6,650	7,536	0.88
Subtotal Coast	16,910	47,318	22	2,208	0	190	0	66,648	78,538	0.81
Sekiu-Pillar Point (Area 5)	378	8,399		15,769				24,546	25,926	0.95
East Juan de Fuca (Area 6)	1,612	339		1,558				3,509	12,217	0.29
San Juan Islands (Area 7)	3,421	522		1,795	27			5,765	21,065	0.27
Deception Pass, Hope Island (Area 8.1)	623	786	9	101				1,519	6,824	0.22
Port Susan & Port Gardner (Area 8.2)	1,461	3,789	6	3,549				8,805	32,004	0.28
Admiralty Inlet (Area 9)	4,550	4,138	52	488				9,228	49,834	0.19
Seattle-Bremerton (Area 10)	1,762	2,105	110	32				4,009	22,650	0.18
Tacoma-Vashon Island (Area 11)	13,011	1,285	158	63				14,517	70,795	0.21
Hood Canal (Area 12)	1,412	176	2,033	425				4,046	18,089	0.22
South Puget Sound (Area 13)	3,133	552	429					4,114	29,843	0.14
Subtotal Puget Sound	31,363	22,091	2,797	23,780	27	0	0	80,058	289,247	0.28
Marine Area Totals	48,273	69,409	2,819	25,988	27	190		146,706	367,785	0.39
Freshwater Totals	29,195	37,038	4,835	11,303	139	10,036	61	92,607	-----	-----
Grand Totals	77,468	106,447	7,654	37,291	166	10,226	61	239,313	367,785	-----

*"Subtotal Coast" salmon per trip is calculated using the coast subtotal minus the Grays Harbor and Willapa Bay catch.

Table 7. 1999-2000 Sport Salmon Catch, Area 1 - Ilwaco: Ocean

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 25	197	2,568				2,765	2,215	1.25
August 1	298	2,603	2			2,901	2,233	1.30
August 8	522	4,589	1			5,113	3,732	1.37
August 15	257	1,344				1,602	2,324	0.69
August 22	557	1,873				2,430	3,147	0.77
August 29	171	1,680				1,851	1,930	0.96
September 5	153	2,669				2,822	2,622	1.08
September 12	88	1,389				1,477	1,153	1.28
September 19	76	846				922	1,104	0.84
September 26	5	81				86	268	0.32
October 3	0	20				20	17	1.18
Total	2,324	19,662	3	0	0	21,989	20,745	1.06

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.

Table 8. 1999-2000 Sport Salmon Catch, Area 1 - Ilwaco: River

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 1	16	3				19	282	0.07
August 8	64	22				86	1,093	0.08
August 15	169	62				231	2,161	0.11
August 22	3,559	692				4,251	8,242	0.52
August 29	2,067	2,174				4,241	10,337	0.41
September 5	5	1,473				1,478	3,137	0.47
September 12	2	643				645	2,395	0.27
September 19		263				263	812	0.32
September 26		8				8	210	0.04
October 31							51	
TOTAL **	5,882	5,340	0	0	0	11,222	28,720	0.39

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. ** Includes some catch just above the Megler-Astoria Bridge.

Table 9. 1999-2000 Sport Salmon Catch, Area 2 - Westport

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 25	965	1,856	13			2,834	2,538	1.12
August 1	1,306	2,204	22			3,532	2,778	1.27
August 8	1,427	2,888	13			4,328	2,840	1.52
August 15	608	1,396	24			2,028	2,400	0.85
August 22	787	1,918	3			2,708	2,680	1.01
August 29	278	1,055			2	1,335	1,480	0.90
September 5	649	361				1,010	1,359	0.74
September 12	260	204				464	963	0.48
September 19	203	434				637	832	0.77
September 26	70	42				112	123	0.91
October 3	20	48				68	76	0.89
Total	6,573	12,406	75	0	2	19,056	18,069	1.05

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.

Table 10. 1999-2000 Sport Salmon Catch, Area 2.1 - 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		20					20
August	79	39					118
September	873	951				37	1,861
October	59	59			20		138
Total	1,011	1,069	0	0	20	37	2,137

Table 11. 1999-2000 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
March	20						20
July	61	103					164
August	59	39		20			118
September		400				133	533
October		273				20	293
November		79					79
Total	140	894	0	20	0	153	1,207

Table 12. 1999-2000 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 25	191	356	59			606	688	0.88
August 1	201	335	32			568	404	1.41
August 8	203	536	48			787	582	1.35
August 15	114	346	27			487	311	1.57
August 22	125	486	4			611	438	1.39
August 29	25	545				574	337	1.70
September 5	30	315				345	302	1.14
September 12	41	204				245	183	1.34
September 19	13	151				164	223	0.74
Total	943	3,274	170	0	0	4,387	3,468	1.26

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.

Table 13. 1999-2000 Sport Salmon Catch, Area 4 - Neah Bay

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 25	2	1,130	377			1,509	1,575	0.96
August 1	2	296	349			647	879	0.74
August 8	6	630	386			1,022	1,064	0.96
August 15	2	605	570			1,177	928	1.27
August 22	3	658	135			796	838	0.95
August 29	6	475	42			523	675	0.77
September 5	7	637	61			705	859	0.82
September 12	4	142	20			166	387	0.43
September 19	5	93				98	218	0.45
September 26		7				7	49	0.14
October 3							64	
Total	37	4,673	1,940	0	0	6,650	7,536	0.88

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.

Table 14. 1999-2000 Sport Salmon Catch, Area 5 - Sekiu - Pillar Point

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 - 1999	94					94	522	0.18
March - 1999	47					47	262	0.18
April	117					117	653	0.18
July	2	48	222			272	269	1.01
August	13	3,540	12,873			16,426	13,204	1.24
September	9	4,707	2,674			7,390	10,093	0.73
October		104				104	204	0.51
February - 2000	96					96	719	0.13
TOTAL	378	8,399	15,769	0	0	24,546	25,926	0.95

NOTE: Estimates for August 01 - September 30 are from creel surveys; all other estimates are from catch record cards. Refer to Table 24 for creel survey estimates during August 01 - September 30, 1999.

Table 15. 1999-2000 Sport Salmon Catch, Area 6 - East Juan de Fuca 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
February - 1999	295					295	752	0.39
March - 1999	292					292	746	0.39
April	130					130	331	0.39
July	17	17				34	86	0.40
August	4	83	1053			1,140	4,151	0.27
September	3	239	505			747	3,447	0.22
October	32					32	97	0.33
November	275					275	826	0.33
December	48					48	145	0.33
February - 2000	355					355	1,127	0.31
March - 2000	161					161	509	0.32
TOTAL	1,612	339	1,558	0	0	3,509	12,217	0.29

Table 16. 1999-2000 Sport Salmon Catch, Area 7 - San Juan Islands

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 - 1999	409					409	1,283	0.32
March - 1999	438					438	1,372	0.32
April	260					260	814	0.32
May	16	16				16	30	0.53
June	16	16				32	61	0.52
July	372		37	12		421	3,433	0.12
August	561	71	1,070	6		1,708	5,668	0.30
September	159	297	667	9		1,132	3,191	0.35
October	4	120	21			145	1,059	0.14
November	511					511	1,606	0.32
December	17					17	32	0.53
February - 2000	395					395	1,193	0.33
March - 2000	279	2				281	1,323	0.21
TOTAL	3,421	522	1,795	27	0	5,765	21,065	0.27

Table 17. 1999-2000 Sport Salmon Catch, Area 8.1 - Deception Pass / 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 - 1999	32					32	166	0.19
February - 1999	50					50	171	0.29
March - 1999	164					164	556	0.29
April	132					132	446	0.30
June	16					16	83	0.19
July	17	16	67			100	513	0.19
September		421	34			455	1,533	0.30
October	103	200			5	308	1,524	0.20
November	71	138			4	213	1,049	0.20
December	5	11				16	80	0.20
January - 2000	17					17	83	0.20
March - 2000	16					16	620	0.03
TOTAL	623	786	101	0	9	1,519	6,824	0.22

Table 18. 1999-2000 Sport Salmon Catch, Area 8.2 - Port Susan / Port Gardner

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 - 1999	179					179	1,195	0.15
March - 1999	211					211	1,409	0.15
April	147		32			147	982	0.15
June						32	138	0.23
July	20	8	85			113	482	0.23
August	543	207	2,294			3,044	13,005	0.23
September	49	3,128	1,136		4	4,317	9,425	0.46
October	2	446	2		2	452	2,666	0.17
February - 2000	115					115	1,000	0.12
March - 2000	195					195	1,702	0.11
TOTAL	1,461	3,789	3,549	0	6	8,805	32,004	0.28

Table 19. 1999-2000 Sport Salmon Catch, Area 9 - Admiralty Inlet

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 - 1999	17					17	53	0.32
February - 1999	294					294	928	0.32
March - 1999	950					950	3,000	0.32
April	343					343	1,084	0.32
June	45	4				49	614	0.08
July	226	21				247	3,045	0.08
August	1,421	347	243			2,011	20,592	0.10
September	11	3,382	245		32	3,670	10,359	0.35
October	11	384			11	406	3,253	0.12
November	516				6	522	1,692	0.31
December	242				3	245	794	0.31
February - 2000	308					308	2,873	0.11
March - 2000	166					166	1,547	0.11
TOTAL	4,550	4,138	488	0	52	9,228	49,834	0.19

Table 20. 1999-2000 Sport Salmon Catch, Area 10 - Seattle / Bremerton

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 - 1999	273	1				274	1,064	0.26
March - 1999	194	1				195	759	0.26
April	83					83	321	0.26
May		16				16	48	0.33
July	267	8				275	2,808	0.10
August	491	311	11			813	5,296	0.15
September	20	1,388	10		9	1,427	3,794	0.38
October	11	370	11		95	487	5,756	0.08
November	214	6			6	226	1,350	0.17
December	16					16	100	0.16
February - 2000	128	3				131	899	0.15
March - 2000	65	1				66	455	0.15
TOTAL	1,762	2,105	32	0	110	4,009	22,650	0.18

Table 21. 1999-2000 Sport Salmon Catch, Area 11 -Tacoma / Vashon 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 - 1999	16					16	70	0.23
February - 1999	296					296	1,746	0.17
March - 1999	409					409	2,414	0.17
April	181					181	1,068	0.17
May	17					17	50	0.34
June	815					815	3,564	0.23
July	3,612	103	5			3,720	17,648	0.21
August	6,733	226	36		6	7,001	27,874	0.25
September	605	853	22		15	1,495	9,279	0.16
October	106	92			126	324	3,243	0.10
December	32	5			11	48	1,241	0.04
February - 2000	126	4				130	1,727	0.08
March - 2000	63	2				65	871	0.07
TOTAL	13,011	1,285	63	0	158	14,517	70,795	0.21

Table 22. 1999-2000 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
February - 1999	81					81	210	0.39
March - 1999	374					374	979	0.38
April	97					97	253	0.38
May	64					64	167	0.38
June	60	20				80	209	0.38
July	25	5	101			131	673	0.19
August	79	16	324			419	2,151	0.19
September	179	72			322	573	3,496	0.16
October	158	63				506	3,089	0.16
November	197				1,227	1,424	5,546	0.26
December	32				199	231	899	0.26
March - 2000	66					66	417	0.16
TOTAL	1,412	176	425	0	2,033	4,046	18,089	0.22

Table 23. 1999-2000 Sport Salmon Catch, Area 13 - South Puget Sound

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 - 1999	16					16	141	0.11
March - 1999	48					48	421	0.11
April	49					49	424	0.12
May	156	40				196	1,863	0.11
June	142	36				178	1,699	0.10
July	362	92				454	4,332	0.10
August	1,647	95				1,742	9,210	0.19
September	619	134				753	6,236	0.12
October	21	127			240	388	1,875	0.21
November		2			94	96	263	0.37
December		2			95	97	266	0.36
February - 2000	24	8				32	1,030	0.03
March - 2000	49	16				65	2,083	0.03
TOTAL	3,133	552	0	0	429	4,114	29,843	0.14

Table 24. 1999 Sport Catch: Puget Sound Area 5 Creel Survey Data

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	Total Salmon
Area 5	August 01 - September 30								
Total		9,302	23,768	24	8,398	0	15,768	0	24,190

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months

		1999												2000				
System	Catch Area	Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
COASTAL RIVER SYSTEMS																		
CLEARWATER RIVER		Chinook										10	8					18
		Coho										3	8					11
		Total										13	16					29
COPALIS RIVER		Chinook										5						5
		Coho					3	52	76	26								157
		Jack, Coho						8	18									26
	Total					3	60	99	26									188
GRAYS HARBOR		Chinook	2	15	39	24		2	20	7								109
		Coho					17	1,681	261	10				10				1,979
		Jack, Chinook								2								17
		Jack, Coho												562	39			601
		Jack, Unknown												51				51
		Unknown										2	2					2
	Total					2	15	39	26	19	2,328	312	10	10				2,761
GRAYS HARBOR		Coho									5	5						10
	Total										5	5						10
GRAYS HARBOR		Coho									5	2						7
	Total										5	2						7
GRAYS HARBOR		Chinook										5	2					7
		Chum										15						15
		Coho										481	154					635
		Jack, Chinook										5						5
		Jack, Coho										29	2					31
		Jack, Unknown										5						5
	Total										540	158					698	
GRAYS HARBOR		Chinook						5										5
	Chum								2									2
	Coho											15	7					22
	Total							5	2	15	7	7						29

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

		1999												2000					
System	Catch Area	Species	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total	
COASTAL RIVER SYSTEMS																			
GRAYS HARBOR	Newaukum River	Coho												5	29			34	
		Total													5	29			34
GRAYS HARBOR		Chinook										2	5					7	
		Chum										7						7	
		Coho	2					7	452	225	117					29			832
		Jack, Chinook										2							2
		Jack, Coho										61	7						68
		Jack, Unknown										20							20
		Pink										2							2
Total			2				7	546	237	117				29				938	
GRAYS HARBOR		Chinook										7						7	
		Coho										46	29					75	
		Jack, Chinook										5						5	
		Jack, Coho										5						5	
		Total										63	29						92
GRAYS HARBOR		Coho										37	44					81	
		Jack, Chinook										2						2	
		Jack, Coho										2						2	
		Jack, Unknown										5						5	
		Total										46	44						90
WYNOOCHEE RIVER	HOH RIVER	Chinook							37	11	82	316	15					465	
		Chum										15						15	
		Coho								11	15	197	33					256	
		Jack, Unknown							4	4	48	56						112	
		Jack, Chinook							4	4	7	30						45	
		Jack, Coho										7						7	
		Sockeye								7								7	
		Total						4	45	37	159	614	48						907
		Coho									3	44	26						73
		Total							3	44	26								73

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
COASTAL RIVER SYSTEMS																		
QUEETS RIVER		Chinook									34	18						52
		Coho									39							39
		Jack, Chinook									13							13
		Jack, Coho									31							31
		Total										117	18					
QUILLAYUTE RIVER		Chinook									3	17						20
		Chum											3					3
		Coho						8	8		14	79						109
		Jack, Chinook						3	3		6	3						15
		Jack, Coho									3	3						
Unknown																3	3	
Total						3	11	11	11	26	102	3					156	
Bogachiel River		Chinook										6						6
		Coho									22							22
		Jack, Chinook									3							3
		Jack, Coho									3							3
		Pink															3	6
Total										34	3						43	
QUILLAYUTE RIVER		Coho									6	17						23
		Total									6	17						23
QUILLAYUTE RIVER		Chinook								14	8							76
		Coho								11	39	227	3	3				283
		Jack, Chinook									3	17						20
		Jack, Coho										42						42
		Total									14	8	11	45	3	3		
QUILLAYUTE RIVER		Chinook								17	73	73	45	8				334
		Chum																3
		Coho									11	208	59	424	295			997
		Jack, Chinook								6	6	8						68
		Jack, Coho										36	11	98	93			238
Jack, Unknown										3							6	
Sockeye										3	28	11	8				78	
Unknown																3	3	
Total									17	79	85	92	280	81	662	425	1,727	
Sol Duc River																		

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total						
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar							
COASTAL RIVER SYSTEMS																								
QUINAULT LAKE		Jack, Coho															13					13		
	Quinault Lake	Total															13						13	
QUINAULT RIVER		Coho																					3	
	Quinault River	Total																						3
SALMON RIVER		Chinook																						24
		Coho																						70
		Jack, Chinook																						5
		Jack, Coho																						10
	Salmon River	Total																						109
SOOES RIVER		Chinook																						5
	Sooes River	Total																						5
WILLAPA BAY		Chum																						83
		Jack, Coho																						3
	Bear River	Total																						86
WILLAPA BAY		Chinook																						552
		Chum																						35
		Coho																						541
		Jack, Chinook																						53
		Jack, Coho																						24
		Jack, Unknown																						8
		Unknown																						5
	Naselle River	Total																						1,218
WILLAPA BAY		Chinook																						13
		Chum																						133
		Coho																						384
		Jack, Chinook																						3
		Jack, Coho																						19
		Jack, Unknown																						5
	Nemah River	Total																						557
WILLAPA BAY		Coho																						8
		Unknown																						3
	North River	Total																						11
WILLAPA BAY		Coho																						6
	Smith Creek	Total																						6

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
COASTAL RIVER SYSTEM																		
WILLAPA BAY		Chinook						5	240	61	3							309
		Chum									3							3
		Coho	77						165	269	48	184			83	3		829
		Jack, Chinook							5	11								16
		Jack, Coho							13	19					3			35
		Jack, Unknown							5	13								18
		Pink								3								3
	Total	77						5	428	376	54	184		86	3		1,213	
COASTAL RIVER SYSTEMS		Chinook	3		23	102	120	106	96	708	714	139						2,014
		Chum					5	3	16	266	9							299
		Coho	84					11	254	453	4,803	1,333	383	162	3			7,486
		Jack, Chinook				6	6	17	15	85	196	14						339
		Jack, Coho						4	40	42	969	144		3				1,202
		Jack, Unknown					3			12	107							125
		Pink									7							16
	Sockeye					3	28	35	11	8							85	
	Unknown									10							16	
	TOTALS	87		23	108	132	171	443	1,327	7,080	1,639	392	171	6	3		11,582	

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
COLUMBIA RIVER SYSTEM																		
COWLITZ RIVER		Coho																112
		Jack, Coho																61
	Cispus River	Total																173
COWLITZ RIVER		Chinook																37
		Coho	9															5
		Jack, Chinook																12
		Jack, Coho																5
	Total	Total	9	5	47	185	115	16	82	220	2,787	3,480	1,364	353	24	42	42	8,729
COWLITZ RIVER		Chinook																241
		Coho																2,012
		Jack, Chinook																30
		Jack, Coho																122
	Total	Total	33	1,747	620	5	482	227	60									2,405
COWLITZ RIVER		Coho																503
		Jack, Chinook																9
		Jack, Coho																262
	Total	Total	5	482	227	60												774
GREEN RIVER		Chinook																119
		Coho																1,756
		Jack, Chinook																18
		Jack, Coho																66
	Total	Total	2	14	268	307	66	35	8	2	534	1,342	64	2	2	25	2	1,959
LEWIS RIVER		Chinook																729
		Coho																3,015
		Jack, Chinook																117
		Jack, Coho																1,055
	Total	Total	2	14	285	342	99	41	41	1,448	1,892	698	27	2	25	2	25	4,916
COLUMBIA, LOWER		Chinook																81
		Coho																371
		Jack, Coho																127
	Total	Total	2	123	344	110												579

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
COLUMBIA RIVER SYSTEM																		
COLUMBIA, LOWER		Chinook								2	2							4
		Coho								2		6						8
		Jack, Chinook										4						4
		Jack, Coho										6						6
		Total									4	18						22
COLUMBIA, LOWER		Chinook	6	2				49	448	123	6						11	645
		Coho						11	856	1,263	158	28						2,316
		Jack, Chinook								17	6							23
		Jack, Coho	2						30	108	154	32						326
		Total	2	6	2			60	1,351	1,500	318	60					11	3,310
COLUMBIA, LOWER		Chinook						1,372	2,612	209	4					106	4,303	
		Coho						33	526	225	11						795	
		Jack, Chinook						60	118	12								190
		Jack, Coho						5	219	150								374
		Total						1,470	3,475	596	15					106	5,662	
COLUMBIA, LOWER		Chinook						9	412	84	2						507	
		Coho							19	15	6						40	
		Jack, Chinook								8	8						16	
		Jack, Coho									6						6	
		Total						9	439	113	8						569	
COLUMBIA, MID-		Chinook				13	12	49	2	45	1,169	400	2				1,692	
		Coho							2	174	436	58	16				686	
		Jack, Chinook						14	40	2	22	16	2			2	98	
		Jack, Coho								4	9	60	2				75	
		Total				13	26	89	4	51	1,374	912	64	16		2	2,551	
COLUMBIA, MID-		Chinook					197			18	87	56					358	
		Coho								2	76	60					138	
		Jack, Chinook						25			2	40	18				85	
		Jack, Coho									210	18					228	
		Total					222	413	152		22	413	152				809	
COLUMBIA, MID-		Chinook					2	284	847	385	9	2					1,529	
		Coho						2	206	385	45						638	
		Jack, Chinook						4	27	29							60	
		Jack, Coho						2	112	56	11	4					185	
		Total					2	292	1,192	855	65	6					2,412	

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
COLUMBIA RIVER SYSTEM																			
COLUMBIA, MID-		Chinook	7	27	2	27	78	4										145	
		Coho				2	148	25											175
		Jack, Chinook		4		4	7												15
		Jack, Coho					27	4											31
	White Salmon River	Total	7	31	2	33	260	33										366	
COLUMBIA, MID-		Chinook	555	562	11	11	34	9										1,182	
		Coho					63	4										67	
		Jack, Chinook	41	42			4												87
		Total	596	604	11	11	101	13											1,336
COLUMBIA, UPPER	Wind River	Chinook			62	41	3											106	
		Jack, Chinook			6	15													21
		Total			68	56	3												127
COLUMBIA, UPPER		Chinook	1	9	15	1,284	4,083	65	3									5,460	
		Coho				35	103	35	18										191
		Jack, Chinook		1	3	147	427	9	26										613
		Jack, Coho				21	47	18											86
		Sockeye			3	3	21												27
		Total	1	10	21	1,490	4,681	127	47										
COLUMBIA, UPPER		Chinook			32	9	168											209	
		Coho			21	21	44	3											89
		Jack, Chinook					3												3
		Total			53	30	215	3											301
COLUMBIA RIVER, Upper		Chinook	2	5	67	472	1,202	762	167	2,019	8,040	5,949	137	14	2	179	19,017		
		Coho	9				5	199	6,609	8,320	2,423	477	12	5	18,059				
		Jack, Chinook			22	131	126	32	87	569	655	32	26	5	2	1,687			
		Jack, Coho	2				20	1,552	2,340	598	68	7	4,587						
		Sockeye					3	3	21								27		
		Total	13	5	67	494	1,333	888	204	2,328	16,773	17,285	3,190	585	26	186	43,377		

* Does not include some catch just above the Megler Astoria Bridge from August - October. The excluded catch is shown in the Area 1 Ilwaco River catch estimate from August - October.

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total	
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
PUGET SOUND RIVER SYSTEMS																			
CALIFORNIA CREEK	California Creek	Coho													3				3
		Total													3				3
		Chinook						5											
CASCADE RIVER	CASCAD RIVER	Coho					3								73			13	89
		Pink							3						10				13
		Total						8		3					83			13	107
DEEP CREEK	Deep Creek	Chinook					3												3
		Coho													3				3
		Total					3		3					3				6	
DESCHUTES RIVER	DESCHUTES RIVER	Chinook								65				50				115	
		Chum																8	
		Coho						3										3	
Deschutes River-Capitol Lk	Dewatto Creek	Jack, Chinook								13				3				16	
		Jack, Coho								3								3	
		Total						3		81				53			8	145	
DEWATTO CREEK	Dewatto Creek	Coho												13				13	
		Total												13				13	
		Chinook																5	
DUCKABUSH RIVER	Duckabush River	Chum																26	
		Total																31	
		Chum																5	
DUNGENESS RIVER	Dungeness River	Chum												5				5	
		Coho								458				366				824	
		Jack, Unknown								11								11	
Total								474				366				840			
ELWHA RIVER	Elwha River	Chinook												3				3	
		Coho								568				77		3		648	
		Jack, Coho								67				10				77	
Total								655				90		3		748			

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
PUGET SOUND RIVER SYSTEMS																		
GREEN RIVER		Chinook							82	168								250
		Chum								41	222	91						354
		Coho							18	879	5							902
		Jack, Chinook						5										5
		Jack, Coho									421	9						430
		Jack, Unknown									32							32
		Pink									27							27
Sockeye										5	9						14	
Unknown								5									5	
Green - Duwamish River		Total						5	100	1,573	245	91					2,019	
HOKO RIVER		Pink							10								10	
Hoko River		Total							10								10	
KENNEDY CREEK		Chum								274	347	3					624	
		Coho								3							3	
		Jack, Coho								3							3	
		Total								280	347	3					630	
LAKE WASHINGTON		Chinook						10	47							60		
Lk Washington-Lk Sammamish		Coho								5						5		
Total		Total						10	47	5						65		
MCLANE CREEK		Chum									13					13		
McLane Cr. and Mud Bay		Total									13					13		
NISQUALLY RIVER		Chinook							47	285	81	3					416	
		Coho								9							9	
		Jack, Chinook							16	34							50	
		Unknown									3						3	
McAllister Creek		Total						72	319	84	3					478		
NISQUALLY RIVER		Chinook	16					16	276	1,254	122						1,687	
		Chum	414							6	13	3	166			28	630	
		Coho							6	38	19	3					66	
Nisqually River		Jack, Chinook	3					3	28	128	34	6					202	
		Jack, Coho							3	22	3	3					31	
		Jack, Unknown							6	16							22	
		Total	433						19	319	1,464	191	15	166		28	3	2,638

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Catch Area	Species	1999												2000			Total
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
PUGET SOUND RIVER SYSTEMS																		
NOOKSACK-SAMISH	Dakota Creek	Chinook								3							3	
		Coho								50							53	
		Total								53								56
NOOKSACK-SAMISH	Nooksack River	Chinook															3	
		Chum							16	3	129						214	
		Coho						16	828	1,673	85							2,602
		Jack, Chinook									3							3
		Jack, Coho							69	38								107
		Jack, Unknown										9						9
Pink							28	94	6							128		
Total							44	1,007	1,732	217						3,066		
NOOKSACK-SAMISH	Nooksack River	Chinook								19	1,930	938					2,887	
		Chum								3	6	31					40	
		Coho						3	3	85	634	6					731	
		Jack, Chinook								35	6						41	
		Jack, Coho								3	13	3					19	
		Jack, Unknown								3	6						9	
		Pink								6							6	
		Unknown								3							3	
		Total							3	22	2,068	1,603	40					3,736
		NOOKSACK-SAMISH	Whatcom Creek	Chinook														
Chum										82	540	35					657	
Coho											3						3	
Pink											3						3	
Unknown											3						3	
Total										82	555	35						672
PUYALLUP RIVER	Carbon River	Chinook															1,515	
		Coho						2	5	1,384	124						430	
		Jack, Chinook								83	298	49					92	
		Jack, Coho								2	83	7					132	
		Jack, Unknown									17	100	15				2	
Total							2	7	1,567	531	64					2,171		

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Species	1999												2000			Total	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
PUGET SOUND RIVER SYSTEMS																		
PUYALLUP RIVER	Chinook							15	98	27								140
	Chum									2								11
	Coho							32	183	410	24							649
	Jack, Chinook						2	27	66	37								132
	Jack, Coho							17	124	181								322
	Jack, Unknown								7	17								24
Pink													2				2	
Unknown									7								7	
Total						2	91	485	674	28	7						1,287	
PUYALLUP RIVER	Chum								2									2
	Coho								2	2								4
	Jack, Chinook								2									2
	Total								6	2								8
QUILCENE RIVER	Chum								24	5								29
	Coho								196	10								206
	Jack, Coho								3									3
	Total								223	15								238
SEKIU RIVER	Coho							3									3	
	Pink							10									10	
Total								10	3								13	
SKAGIT RIVER	Coho									12							12	
Total										12							12	
SKAGIT RIVER	Chinook									12	12	19						43
	Chum	3							15	179	423	71	3					694
	Coho								6	1,056	154	6						1,222
	Jack, Chinook								3									3
	Jack, Coho										6							6
	Pink																	21
Sockeye													3				3	
Unknown																	6	
Total		3				3	6	51	1,253	602	77	3					1,998	

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Species	1999												2000			Total
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
PUGET SOUND RIVER SYSTEMS																	
SKOKOMISH RIVER	Chinook						3	294	633	58							988
	Chum						3	8	34	21							66
	Coho						8	129	223	11	8			8			387
	Jack, Chinook						3	45	95	8							151
	Jack, Coho								45	29	5						79
	Jack, Unknown								5	5							10
	Pink							3	24								27
	Unknown									3							3
	Total						6	353	939	360	37	8		8			1,711
	SNOHOMISH RIVER	Pink						7									7
Pilchuck River	Total						7									7	
SNOHOMISH RIVER	Chinook									7	3					10	
	Chum						3		108	660	112					883	
	Coho							69	387	43	3					502	
	Jack, Chinook								3							3	
	Jack, Coho								3	13						16	
	Jack, Unknown								3							3	
	Pink						7	7	377	89						480	
	Sockeye								10							10	
	Total						7	10	459	610	706	115				1,907	
	SNOHOMISH RIVER	Chinook								10	7						17
Chum		3							3	43	171	3				223	
Coho							3		660	1,218	56		7			1,947	
Jack, Chinook									3							3	
Jack, Coho									10	13						23	
Pink							3	33	5,878	272	30					6,216	
Unknown										3						3	
Total		3					3	3	6,564	1,556	257	3		7		8,432	
SNOHOMISH RIVER		Chum									10	3					13
		Coho									112	46	3				161
	Pink								13							13	
Snoqualmie River	Total							13	112	56	6				187		

Table 25. 1999-2000 Freshwater Salmon Catch - Statistical Months (continued)

System	Species	1999												2000			Total								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar									
PUGET SOUND RIVER SYSTEMS																									
STILLAGUAMISH RIVER	Chinook								4	4														8	
	Chum								8	4															44
	Coho								4	4															8
	Pink					16	24		3,685	563															4,324
	Unknown								8	4															12
Stillaguamish River	Total					16	24		3,709	579															4,396
TAHUYA RIVER	Coho																								5
Tahuya River	Total																								5
	Chinook	16			3			21	674	5,804	1,601														8,164
	Chum	420						6	85	799	2,638												31		4,536
	Coho				3	6	80	2,304	8,113	944	25												11	7	11,493
	Jack, Chinook	3				13	118	462	101	6															703
	Jack, Coho							20	299	887	45														1,251
	Jack, Unknown							6	31	105															142
	Pink					7	26	111	10,105	967	71														11,287
	Sockeye					3			10	5	9														27
	Unknown							5	18	13	9														45
PUGET SOUND RIVERS	Total	439			3	13	66	1,020	19,118	12,591	3,764											42	10		37,648

Table 26. 1999-2000 Washington Sport Salmon Fishing, by Residence

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	597	16,190	3.69	195		195	0.33
Asotin	179	20,614	0.87		21	21	0.12
Benton	10,352	140,415	7.37	1,617	1,179	2,796	0.27
Chelan	1,760	66,913	2.63	837	358	1,195	0.68
Clallam	8,517	64,365	13.23	3,272	8,401	11,673	1.37
Clark	27,745	337,625	8.22	6,875	5,769	12,644	0.46
Columbia	194	4,272	4.61				
Cowlitz	16,274	92,700	17.56	9,991	3,263	13,254	0.81
Douglas	999	32,524	3.07	351	253	604	0.60
Ferry	45	7,271	0.62				
Franklin	3,744	48,306	7.75	1,363	211	1,574	0.42
Garfield	30	2,388	1.26				
Grant	1,417	73,555	1.93	312	547	859	0.61
Grays Harbor	9,606	67,349	14.26	3,369	3,642	7,011	0.73
Island	6,354	70,512	9.01	351	4,821	5,172	0.81
Jefferson	2,760	25,664	10.75	19	2,274	2,293	0.83
King	51,104	1,720,098	2.97	7,031	21,875	28,906	0.57
Kitsap	14,603	229,568	6.36	623	7,959	8,582	0.59
Kittitas	1,074	34,538	3.11	448	211	659	0.61
Klickitat	2,044	18,793	10.88	643	21	664	0.32
Lewis	7,622	68,542	11.12	5,005	2,232	7,237	0.95
Lincoln	119	10,144	1.17	19	168	187	1.57
Mason	5,206	48,513	10.73	837	2,800	3,637	0.70
Okanogan	433	39,429	1.10		126	126	0.29
Pacific	3,953	20,979	18.84	1,597	4,948	6,545	1.66
Pend Oreille	134	11,654	1.15	39	42	81	0.60
Pierce	35,785	691,565	5.17	5,901	21,033	26,934	0.75
San Juan	1,074	14,019	7.66	351	611	962	0.90
Skagit	11,545	102,071	11.31	3,798	3,242	7,040	0.61
Skamania	746	9,585	7.78	428	21	449	0.60
Snohomish	38,858	591,590	6.57	12,426	16,022	28,448	0.73
Spokane	4,818	416,713	1.16	1,363	1,242	2,605	0.54
Stevens	194	38,761	0.50		84	84	0.43
Thurston	14,305	205,557	6.96	4,850	7,622	12,472	0.87
Wahkiakum	731	3,875	1.77	409	189	598	0.82
Walla Walla	3,147	55,108	5.71	312	63	375	0.12
Whatcom	11,008	164,282	6.70	4,363	3,011	7,374	0.67
Whitman	731	41,192	1.77	253	189	442	0.60
Yakima	12,709	223,596	5.68	2,357	1,895	4,252	0.33
Unknown WA	9,099	n/a	n/a	8,336	10,990	19,326	
Washington Total	321,618	5,830,835	5.52	89,941	137,335	227,276	0.71
Other State Total	29,729	n/a	n/a	2,668	9,369	12,037	0.40
Canada	522	n/a	n/a				n/a
Foreign	134	n/a	n/a				n/a
Grand Total	352,000	5,830,835	n/a	92,609	146,704	239,313	0.68

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

Source: Intercensal estimates of the Total Resident Population by County (<http://www.ofm.wa.gov/pop6098/C60T 01.xls>).

Table 27. 1999-2000 Frequency Distribution of Estimated Salmon Catch Record Cards and Catch								
# Salmon per Catch Record Card	# of Cards	Cumulative # of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	273,944	273,944	77.82	77.82	0	0	0.00	0.00
1	25,165	299,109	7.15	84.97	21,502	21,502	8.98	8.98
2	19,254	318,363	5.47	90.44	32,902	54,404	13.75	22.73
3	8,618	326,981	2.45	92.89	22,090	76,494	9.23	31.96
4	6,363	333,344	1.81	94.70	21,745	98,239	9.09	41.05
5	4,250	337,594	1.21	95.91	18,155	116,394	7.59	48.64
6	2,801	340,395	0.80	96.70	14,361	130,755	6.00	54.64
7	1,828	342,223	0.52	97.22	10,933	141,688	4.57	59.21
8	1,733	343,956	0.49	97.71	11,846	153,534	4.95	64.16
9	1,401	345,357	0.40	98.11	10,771	164,305	4.50	68.66
10	878	346,235	0.25	98.36	7,505	171,810	3.14	71.79
11	855	347,090	0.24	98.60	8,033	179,843	3.36	75.15
12	712	347,802	0.20	98.81	7,302	187,145	3.05	78.20
13	712	348,514	0.20	99.01	7,911	195,056	3.31	81.51
14	617	349,131	0.18	99.18	7,684	202,440	3.09	84.59
15	2,801	351,932	0.80	99.98	35,904	238,344	15.00	99.59
16	71	352,003	0.02	100.00	974	239,318	0.41	100.00
Total	352,003		100.00		239,318		100.00	

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

Table 28A. 1999-2000 Sport Salmon Technical Catch Data	
Records on File	Estimates and Calculations
Name and Address File	25,230
Catch Record Cards in Sample Returns	14,828
Correction Data	
Correction Factor	5,301 / 5,828 = 0.91
Percentage of voluntarily returned catch records with matching names and addresses	
Name/Address Corrected for Dealer Non-Response	25,230 / .91 = 27,725
Estimated Number of Catch Records Issued (Num Books x Avg # CRC/Book)	14,415 x 24.4192 = 352,003
Catch Expansion Factor	352,003 / 14,828 = 23.74

Table 28B. 1999-2000 Sport Salmon Inventory of Catch Record Cards Received										
Response Code*	Number of Cards with Catch			Number of Cards without Catch			Total Cards & Letters	Number of Salmon		
	Catch Records	Reminder Letters	Catch Records	Reminder Letters	Catch Records	Reminder Letters		Total Salmon	Catch Records	Reminder Letters
1	229		204		433		302	.70		.70
2	145	366	164	2,420	3,095	483	661	.58	.17	.21
4	64	106	85	703	958	143	222	.53	.18	.23
6	1,105	687	1,821	5,056	8,669	852	2,195	.46	.15	.25
7	530	7	977	1	1,514	9	665	.44	1.29	.44
8	14	35	109	1	159	56	56	.46		.35
Total	2,087	1,201	3,360	8,180	14,828	1,478	4,101	.48	.16	.28

* Response Codes
1 Prior to any reminder sent
2 After second reminder
4 After third reminder
6 After first reminder
7 From sporting goods dealer
8 Unknown return date

Sturgeon



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)

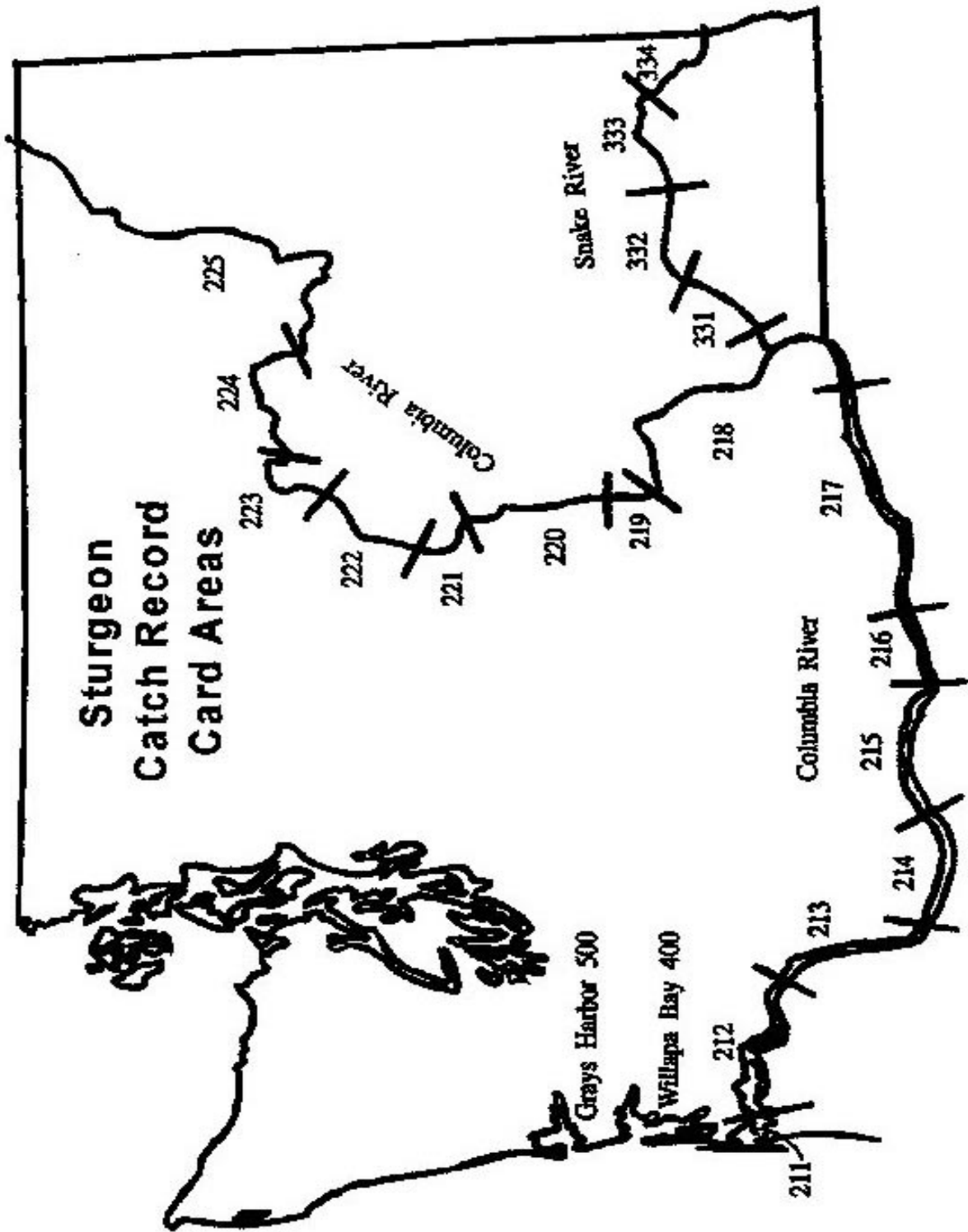


Table 29. 1999- 2000 Sport Sturgeon Catch, by Area and Month

Catch Area	Species	1999												2000			Total	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
COLUMBIA RIVER SYSTEM																		
Buoy 10 to Astoria Bridge*	Green						3	8	2	2								15
	White	20	32	52	786	2,146	3,704	1,436	728	47				1	2			8,954
	Total	20	32	52	786	2,149	3,712	1,438	730	47	0	0	0	1	2			8,969
Astoria Bridge to Longview Bridge*	White	24	58	222	162	128	97	162	204	223	331	229	43	20	148	478		2,529
	Total	24	58	222	162	128	97	162	204	223	331	229	43	20	148	478		2,529
Longview Bridge to I-5 Bridge*	White	354	145	176	149	52	19	31	22	15	89	188	118	258	490	375		2,481
	Total	354	145	176	149	52	19	31	22	15	89	188	118	258	490	375		2,481
I-5 Bridge to Bonneville Dam*	White	44	91	119	135	848	2,191	3,721	1,442	728	47	17	17	16	116	84		9,599
	Total	44	91	119	135	848	2,191	3,721	1,442	728	47	17	17	16	116	84		9,599
Bonneville Dam to The Dalles Dam	White	187	132	260	128	5	9	32	27	55	23			50	109	251		1,268
	Total	187	132	260	128	5	9	32	27	55	23			50	109	251		1,268
The Dalles Dam to John Day Dam	White	23	14	64	64	91	59	14	5	9	14			9		73		439
	Total	23	14	64	64	91	59	14	5	9	14			9		73		439
John Day Dam to McNary Dam	White			9	32	23	73	46	46	50	5	9				18		311
	Total			9	32	23	73	46	46	50	5	9				18		311
McNary Dam to Priest Rapids Dam	White			9	27	32	68	50	59	18	14					9		286
	Total			9	27	32	68	50	59	18	14					9		286
Priest Rapids Dam to Wanapum Dam	White						9											9
	Total						9											9
Chief Joseph Dam to Grand Coulee Dam	White						5											5
	Total						5											5
Grand Coulee Dam to Canadian border	White		5				5											10
	Total		5				5											10
COLUMBIA RIVER SYSTEM	White	632	465	882	699	1,969	4,576	7,792	3,237	1,835	651	459	187	353	864	1,290		25,891
	Green						3	8	2	2								15
	Total	632	465	882	699	1,969	4,579	7,800	3,239	1,837	651	459	187	353	864	1,290		25,906

Table 29. 1999- 2000 Sport Sturgeon Catch, by Area and Month (continued)

Catch Area	Species	1999												2000			Total	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
SNAKE RIVER SYSTEM																		
Ice Harbor Dam to Lower Monumental Dam	White				18	18	23	18	9	5								91
	Total				18	18	23	18	9	5								91
Lower Monumental Dam to Little Goose Dam	White				23	18	23	23	9									96
	Total				23	18	23	23	9									96
Little Goose Dam to Lower Granite Dam	White			23	18	32	27	14	14	9								178
	Total			23	18	32	27	14	14	9								178
Lower Granite Dam to Idaho Border	White						9											9
	Total						9											9
SNAKE RIVER SYSTEM																		
	White			23	18	82	63	73	55	32	14							374
	Total			23	18	82	63	73	55	32	14							374
GRAYS HARBOR SYSTEM																		
	White	32	55	119	27	46	55	87	78	27	23	23	46					855
	Green				5		5	5	5	5	9							38
	Unknown					5		5		5								25
	Total	32	55	119	32	51	55	97	83	32	37	23	46					918
WILLAPA BAY SYSTEM																		
	White	14	36	73	50	91	68	41	27	32	14	59						578
	Green						5											5
	Unknown									9								14
	Total	14	36	73	55	91	73	41	27	41	14	59						597
TOTAL FOR CATCH AREAS REPORTED																		
	White	678	556	1,097	794	2,188	4,762	7,993	3,397	1,926	702	541	233					27,698
	Green				5		8	13	7	7	9							58
	Unknown				5	5	5	5	9	9	5							39
	Total	678	556	1,097	804	2,193	4,770	8,011	3,404	1,942	716	541	233					27,795

* Estimates are from creel surveys - all other estimates are from catch record cards.

Table 30. 1999-2000 Washington Sport Sturgeon Fishing, by Residence

County of Residence	# Catch Record Cards	Population by County'	% Catch Record Card Holders	Total Sturgeon	Average Catch per Catch Record Card
Adams	603	16,190	3.72	38	0.06
Asotin	228	20,614	1.11	8	0.04
Benton	7,546	140,415	5.37	303	0.04
Chelan	195	66,913	0.29	17	0.09
Clallum	460	64,365	0.71	261	0.57
Clark	23,512	337,625	6.96	6550	0.28
Columbia	145	4,272	3.39	8	0.06
Cowlitz	12,038	92,700	12.99	3423	0.28
Douglas	230	32,524	0.71	4	0.02
Ferry	13	7,271	0.18	8	0.62
Franklin	2,458	48,306	5.01	89	0.04
Garfield	9	2,388	0.38	0	0.00
Grant	772	73,555	1.05	72	0.09
Grays Harbor	4,784	67,349	7.10	708	0.15
Island	164	70,512	0.23	21	0.13
Jefferson	118	25,664	0.46	21	0.18
King	7,932	1,720,098	0.46	1488	0.19
Kitsap	1,984	229,568	0.86	346	0.17
Kittitas	664	34,538	1.92	38	0.06
Klickitat	1,600	18,793	8.51	156	0.10
Lewis	4,944	68,542	7.21	1450	0.29
Lincoln	94	10,144	0.93	0	0.00
Mason	1,127	48,513	2.32	409	0.36
Okanogan	123	39,429	0.31	46	0.37
Pacific	3,019	20,979	14.39	2769	0.92
Pend Oreille	61	11,654	0.52	0	0.00
Pierce	6,851	691,565	0.99	1121	0.16
San Juan	46	14,019	0.33	21	0.46
Skagit	526	102,071	0.52	84	0.16
Skamania	623	9,585	6.50	173	0.28
Snohomish	4,165	591,590	0.70	308	0.07
Spokane	2,315	416,713	0.56	426	0.18
Stevens	169	38,761	0.44	8	0.05
Thurston	4,775	205,557	2.32	1138	0.24
Wahkiakum	627	3,875	16.18	244	0.39
Walla Walla	2,572	55,108	4.67	164	0.06
Whatcom	294	164,282	0.18	17	0.06
Whitman	579	41,192	1.41	34	0.06
Yakima	8,030	223,596	3.59	611	0.08
Unknown WA	590			114	0.19
Washington Total	106,985	5,830,835	1.84	22,696	0.21
Other State Total	10,271		0.34	3478	0.34
Canada	55		0.15	8	0.15
Unknown	15,195		0.11	1610	0.11
Grand Total	132,506	5,830,835	2.27	27,792	0.21

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

Source: Intercensal estimates of the Total Resident Population by County (<http://www.ofm.wa.gov/pop6098/C60T01.xls>).

Table 31. 1999-2000 Frequency Distribution of Estimated Sturgeon Catch Record Cards and Catch								
# Sturgeon per Catch Record Card	# of Cards	Cumulative # of Cards	Percent Cards	Cumulative Percent Cards	Total Expanded Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	115,295	115,295	87.01	87.01	0	0	0.00	0.00
1	10,254	125,549	7.74	94.75	8,520	8,520	30.65	30.65
2	3,473	129,022	2.62	97.37	5,771	14,291	20.76	51.42
3	1,361	130,383	1.03	98.40	3,392	17,683	12.20	63.62
4	815	131,198	0.61	99.01	2,708	20,391	9.74	73.36
5	428	131,626	0.32	99.34	1,777	22,168	6.39	79.76
6	296	131,922	0.22	99.56	1,475	23,643	5.31	85.06
7	205	132,127	0.15	99.71	1,191	24,834	4.28	89.35
8	105	132,232	0.08	99.79	696	25,530	2.50	91.85
9	137	132,369	0.10	99.90	1,021	26,551	3.67	95.52
10	96	132,465	0.07	99.97	794	27,345	2.86	98.38
11	14	132,479	0.01	99.98	125	27,470	0.45	98.83
12	9	132,488	0.01	99.99	91	27,561	0.33	99.16
14	9	132,497	0.01	99.99	106	27,667	0.38	99.54
16	5	132,502	0.00	100.00	61	27,728	0.22	99.76
18	5	132,507	0.00	100.00	68	27,796	0.24	100.00
TOTAL	132,507		100.00		27,796		100.00	

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

Table 32A. 1999-2000 Sturgeon Technical Catch Data	
Records on File	Estimates and Calculations
Name and Address File	58,629
Catch Record Cards in Sample Returns	29,042
Correction Data	
Correction Factor	.885
Percentage of voluntarily returned catch records with matching names and addresses	
Name/Address Corrected for Dealer Non-Response	58,629 / .885 = 66,247
Estimated Number of Catch Records Issued # book/corr. factor x cards per book x 2	2849 / .885 x 20.58 x 2 = 132,503
Catch Expansion Factor	132,503 / 29,042 = 4.56

Table 32B. 1999-2000 Sport Sturgeon Inventory of Catch Record Cards Received												
Response Code*	Number of Cards with Catch			Number of Cards without Catch		Total Cards & Letters	Number of Sturgeon			Catch Per Card		
	Catch Records	Reminder Letters	Total	Catch Records	Reminder Letters		Catch Records	Reminder Letters	Total	Catch Records	Reminder Letters	Total Cards & Letters
1	1,038		4,785	3,747		4,785	1,038					.22
2	423	905	14,327	1,248	11,751	14,327	423	905	905			.25
4	78	334	5,201	255	4,534	5,201	78	334	334			.23
7	980		4,729	3,749		4,729	980		980			.21
Total	2,519	1,239	29,042	8,999	16,285	29,042	2,519	1,239	1,239	3,758	3,758	.22

*Response Codes
 1 Prior to any reminder sent
 2 After first reminder
 4 After second reminder
 7 From sporting goods dealer

Steelhead

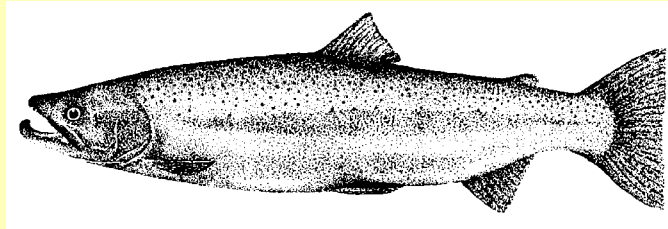


Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month

COLUMBIA RIVER AND TRIBUTARIES ¹																				
System	Catch Area	Race	Marked/ Unmarked Total	1999												2000			Total	
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar						
ABERNATHY CREEK SYSTEM	Abernathy Creek	SSH	Marked			5	5													
			Unmarked			0	0													
			Total			5	5												10	
COAL CREEK SYSTEM	Coal Creek	WSH	Marked										3							
			Unmarked											0						
			Total											3						3
COLUMBIA RIVER SYSTEM	Below Bonneville Dam	SSH	Marked	263	1,196	2,844	3,332	659	55											
			Unmarked	13	16	42	55	42	3											
			Total	276	1,212	2,886	3,387	701	58											
COLUMBIA RIVER SYSTEM	Bonneville Dam to Dalles Dam	SSH	Marked			6	145	78	13											
			Unmarked			0	3	6	0											
			Total			6	148	84	13											
COLUMBIA RIVER SYSTEM	The Dalles Dam to John Day Dam	SSH	Marked			3	55	87	55	58	32	106								
			Unmarked			0	0	3	0	0	0	0	19							
			Total			3	55	90	55	58	32	125								
COLUMBIA RIVER SYSTEM	John Day Dam to McNary Dam	SSH	Marked					10	19	148	273	80								
			Unmarked					0	0	3	3	7								
			Total					10	19	151	276	87								
COLUMBIA RIVER SYSTEM	McNary Dam to Hwy 395	SSH	Marked			6	74	183	880	386	41									
			Unmarked			0	0	0	29	35	10									
			Total			6	74	183	909	421	51									
COLUMBIA RIVER SYSTEM	Hwy 395 Bridge to Priest Rapids Dam	SSH	Marked	148	277	524	174	10												
			Unmarked	3	3	3	3	0												
			Total	151	280	527	177	10												
COLUMBIA RIVER SYSTEM	Priest Rapids Dam to Wanapum Dam	SSH	Marked																	
			Unmarked																	
			Total																	
COLUMBIA RIVER SYSTEM	Total	SSH	Marked																	
			Unmarked																	
			Total																	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

System		Catch Area	Race	Marked/ Unmarked	1999												2000			Total						
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar											
COLUMBIA RIVER SYSTEM (continued)		Wanapum Dam to Rock Island Dam	SSH	Marked				3								3								16		
				Unmarked				0										0								0
				Total				3										3								16
COLUMBIA RIVER SYSTEM		Columbia River System	SSH	Marked	411	1,476	3,435	3,822	1,007	1,154	697	262	156	178	126	12,724										
				Unmarked	16	19	45	64	48	35	38	36	0	3	3	307										
				Total	427	1,495	3,480	3,886	1,055	1,189	735	298	156	181	129	13,031										
COLUMBIA RIVER SYSTEM		Cispus River	WSH	Marked							4	6	22	7	8	47										
				Unmarked							0	0	0	0	0	0	0									
				Total						4	6	22	7	8	47											
COLUMBIA RIVER SYSTEM		Coweeman River	SSH	Marked				4					3	3	12											
				Unmarked				0							0	0	0									
				Total				4							3	3	12									
COLUMBIA RIVER SYSTEM		Cowlitz River	SSH	Marked	4	25	25	14	4				61	39	3	125										
				Unmarked	0	0	0	0	0						3	0	0	3								
				Total	4	25	25	14	4						64	39	3	128								
COLUMBIA RIVER SYSTEM		Cowlitz River above Cowlitz Falls Dam²	SSH	Marked						4			44			96										
				Unmarked						0					3			3								
				Total						4					47			99								
COLUMBIA RIVER SYSTEM		Cowlitz River below Mayfield Dam	SSH	Marked	74	247	1,055	959	328	113						2,776										
				Unmarked	4	0	32	32	11	18								97								
				Total	78	247	1,087	991	339	131								2,873								
COLUMBIA RIVER SYSTEM		Cowlitz River below Mayfield Dam	WSH	Marked							161	1,371	1,593	358	396	3,879										
				Unmarked							3	31	6	45	25	6	110									
				Total							164	1,402	1,638	383	402	3,989										

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES ¹																		
System	Catch Area	Race	Marked/ Unmarked	1999												Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
COWLITZ RIVER SYSTEM (continued)	Mayfield to Cowlitz Falls Dam ²	SSH	Marked	11	14	4	4										33	
			Unmarked	0	0	0	0											0
			Total	11	14	4	4											
	Green River	SSH	Marked	58	120	102	21	25										326
			Unmarked	0	0	0	11	0										11
			Total	58	120	102	32	25										
		WSH	Marked					8	3									11
			Unmarked					0	0									0
			Total					8	3									
	Lacamas Creek	WSH	Marked														3	3
			Unmarked														0	0
			Total														3	3
	Olequa Creek	WSH	Marked													3		6
			Unmarked													0		0
			Total													3		6
	Tilton River	WSH	Marked													28	11	31
			Unmarked													8	0	8
Total															36	11	31	
Toutle River	SSH	Marked						28									28	
		Unmarked							4								4	
		Total							32									32
	WSH	Marked													3		3	
		Unmarked													0		0	
		Total													3		3	
Toutle River, North Fork	SSH	Marked						7									7	
		Unmarked							0								0	
		Total							7									7
Toutle River, South Fork	SSH	Marked	85	144	42	78	35										384	
		Unmarked	0	4	0	0	0										4	
		Total	85	148	42	78	35											388
	WSH	Marked													17	3	20	
		Unmarked													0	0	0	
		Total													17	3	20	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES¹																	
System	Catch Area	Race	Marked/ Unmarked	1999					2000			Total					
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar		
COWLITZ RIVER SYSTEM (continued)	Cowlitz River System	SSH	Marked	78	390	1,359	1,146	480	185							3,638	
			Unmarked	4	0	36	32	26	18								116
			Total	82	390	1,395	1,178	506	203								3,754
DEEP RIVER SYSTEM	Deep River	SSH	Marked				1	1								2	
			Unmarked				0	0								0	
			Total				1	1									2
ELOCHOMAN RIVER SYSTEM	Elochoman River	SSH	Marked	45	25	12	12	12								94	
			Unmarked	0	0	0	0	0								0	
			Total	45	25	12	12	12									94
ENTIAT RIVER SYSTEM	Entiat River	SSH	Marked													22	
			Unmarked													0	
			Total														22
GERMANY CREEK SYSTEM	Germany Creek	WSH	Marked													1	
			Unmarked													1	
			Total														2
GRADE CREEK SYSTEM	Grade Creek	SSH	Marked					5								11	
			Unmarked					0								0	
			Total					5									11
GRANDE RONDE SYSTEM	Grande Ronde River	SSH	Marked	4			11	296	247	211						1,993	
			Unmarked	0			0	7	30	11						71	
			Total	4			11	303	277	222							2,064
GRAYS RIVER SYSTEM	Grays River and West Fork	SSH	Marked					9								9	
			Unmarked					0								0	
			Total					9									9
HAMILTON CREEK SYSTEM	Hamilton Creek	WSH	Marked													1	
			Unmarked													0	
			Total														1
		SSH	Marked													27	
			Unmarked													0	
			Total														27
		SSH	Marked	137	281	806										1,993	
			Unmarked	15	4	4										71	
			Total	152	285	810											2,064
		SSH	Marked													9	
			Unmarked													0	
			Total														9
		WSH	Marked	178	39	10										287	
			Unmarked	3	11	0										14	
			Total	181	50	10											301

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES ¹														
System	Catch Area	Race	Marked/ Unmarked	1999					2000			Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb
KALAMA RIVER SYSTEM	Kalama River	SSH	Marked	7	7	7	4	4	4					22
		Unmarked	0	0	0	0	0	0						0
		Total	7	7	7	4	4							22
	WSH	Marked							10					41
		Unmarked							0					0
		Total						10						41
	SSH	Marked	4	21	21	14	7	4						71
		Unmarked	0	0	0	4	4	0						8
		Total	4	21	21	18	11	4						79
	WSH	Marked							3					19
Unmarked								0					3	
	Total							3					22	
Kalama River below Kalama Falls Hatchery	Marked	109	376	281	123	60	105						1,054	
	Unmarked	7	25	11	3	3	14						63	
	Total	116	401	292	126	63	119						1,117	
WSH	Marked							89					1,052	
	Unmarked							0					72	
	Total							89					1,124	
Kalama River System	Marked	113	404	309	137	71	113						1,147	
	Unmarked	7	25	11	7	7	14						71	
	Total	120	429	320	144	78	127						1,218	
WSH	Marked							89					1,112	
	Unmarked							0					75	
	Total							89					1,187	
Klickitat River	Marked	28	91	88	222	109	34						575	
	Unmarked	0	0	0	3	25	0						28	
	Total	28	91	88	225	134	34						603	
Cedar Creek	Marked							0					0	
	Unmarked							3					3	
	Total							3					3	
WSH	Marked							6					6	
	Unmarked							0					3	
	Total							6					9	
Lewis River	Marked	3	8	23	70	31	3						138	
	Unmarked	0	0	0	0	0	0						0	
	Total	3	8	23	70	31	3						138	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES ¹																
System	Catch Area	Race	Marked/ Unmarked	1999					2000			Total				
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar	
LEWIS RIVER SYSTEM	Lewis River (continued)	WSH	Marked										45	13	6	116
			Unmarked											0	0	0
	Total												45	13	6	122
	Lewis River, East Fork	SSH	Marked	76	155	138	34	8	25							
Unmarked			0	0	0	0	3	3								
			Total	76	155	138	34	11	28							442
	WSH		Marked							13	264					875
			Unmarked							0	6					9
	Total								13	270					884	
	Lewis River, North Fork	SSH	Marked	34	138	118	101	45	17							453
Unmarked			3	6	3	6	3	0							21	
			Total	37	144	121	107	48	17						474	
	WSH		Marked							19	110					376
			Unmarked							0	6					12
	Total								19	116					388	
	Lewis River System	SSH	Marked	113	301	279	205	84	45							1,027
Unmarked			3	6	3	6	6	6							30	
			Total	116	307	282	211	90	51						1,057	
LITTLE WHITE SALMON RIVER SYSTEM	WSH		Marked							38	426					1,373
			Unmarked							0	18					30
	Total								38	444					1,403	
	Drano Lake	SSH	Marked				6	3								9
Unmarked						0	0								0	
			Total				6	3							9	
LITTLE WHITE SALMON RIVER SYSTEM	SSH		Marked	139	1,730	782	31						3			2,685
			Unmarked	0	28	18	0							0		49
	Total	139	1,758	800	31							3			2,734	
	Little White Salmon River System	SSH	Marked	139	1,736	782	34									2,694
Unmarked			0	28	18	0									49	
			Total	139	1,764	800	34								2,743	
METHOW RIVER SYSTEM	Methow River	SSH	Marked	0	0	0	5									10
			Unmarked	5	5	5	0									10
			Total	5	5	5	5									20
MILL CREEK SYSTEM	Mill Creek	WSH	Marked							0						0
			Unmarked								1					1
			Total									1				1

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES ¹																		
System	Catch Area	Race	Marked/ Unmarked Total	1999												Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
OKANOGAN RIVER SYSTEM	Okanogan River	SSH	Marked											0			0	
			Unmarked											11			11	
			Total											11			11	
ROCK CREEK SYSTEM	Rock Creek (Skamania Co.)	SSH	Marked											11			11	
			Unmarked											0			0	
			Total											11			11	
SALMON CREEK SYSTEM	Salmon Creek (Clark Co.)	WSH	Marked					5	124					242	54	17	442	
			Unmarked					0	0					0	5	5	10	
			Total					5	124					242	59	22	452	
SKAMOKAWA CREEK SYSTEM	Skamokawa Creek	WSH	Marked											1			1	
			Unmarked											0			0	
			Total											1			1	
SNAKE RIVER MAINSTEM SYSTEM	Below Ice Harbor Dam	SSH	Marked						10	14				3	3		40	
			Unmarked						0	0				0	0		0	
			Total						10	14				3	3		40	
	Ice Harbor Dam to Lower Monumental Dam	SSH	Marked	0				122	355	360	389				77	56	3	1,362
			Unmarked	3				0	19	11	17				7	0	0	57
			Total	3				122	374	371	406				84	56	3	1,419
	Lwr Monumental Dam to Little Goose Dam	SSH	Marked	0				686	1,246	493	417				161	84	39	3,126
			Unmarked	3				3	17	18	10				3	3	3	60
			Total	3				689	1,263	511	427				164	87	42	3,186
	Little Goose Dam to Lower Granite Dam	SSH	Marked	3				35	395	431	294				119	161	193	1,631
			Unmarked	0				0	14	3	0				3	0	3	23
			Total	3				35	409	434	294				122	161	196	1,654
Lower Granite Dam to Clarkston	SSH	Marked	3				360	727	481	172				91	84	87	2,005	
		Unmarked	0				14	25	57	52				10	3	3	164	
		Total	3				374	752	538	224				101	87	90	2,169	
Snake River above Clarkston	SSH	Marked					150	1,228	1,018	374				178	35	3	2,986	
		Unmarked					35	39	14	0				0	0	0	88	
		Total					185	1,267	1,032	374				178	35	3	3,074	
Snake River System	SSH	Marked	0	6			1,353	3,961	2,797	1,656				629	423	325	11,150	
		Unmarked	3	3			52	114	103	79				23	6	9	392	
		Total	3	9			1,405	4,075	2,900	1,735				652	429	334	11,542	
TUCANNON RIVER SYSTEM	Tucannon River	SSH	Marked					22	285	276	325				165	27	18	1,118
			Unmarked					0	9	9	0				4	0	0	22
			Total					22	294	285	325				169	27	18	1,140

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES¹																
System	Catch Area	Race	Marked/ Unmarked Total	1999					2000					Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb		Mar	
WALLA WALLA RIVER SYSTEM	Mill Creek (Walla Walla Co.)	SSH	Marked				3								7	
			Unmarked				0									0
	Total				3										7	
	Touchet River & North Fork	SSH	Marked					3	27							57
			Unmarked					0	0							3
Total						3	27								60	
Walla Walla River	SSH	Marked				83	150	87	113						517	
		Unmarked				0	10	3	0						16	
Total					83	160	90	113							533	
Walla Walla River System	SSH	Marked			3	83	150	90	143						674	
		Unmarked			0	0	10	3	0						22	
Total					3	83	160	93	143						696	
WASHOUGAL RIVER SYSTEM	Washougal River	SSH	Marked	10	57	53	6	2	2						130	
			Unmarked	0	0	0	0	0	0	0						0
	Total	10	57	53	6	2	2								130	
	Washougal River, West Fork	SSH	Marked							2	113					398
			Unmarked							0	0					9
Total									2	113				407		
Washougal River, Little	SSH	Marked	16	6	6	6	0	2							30	
		Unmarked	0	0	0	0	2	0							2	
Total			16	6	6	6	2	2							32	
Washougal River, Little	SSH	Marked							10	2					82	
		Unmarked							0	0					0	
Total								10	2						82	
Washougal River System	SSH	Marked			2	4									6	
		Unmarked			0	0									0	
Total					2	4									6	
Washougal River System	SSH	Marked	10	73	61	16	2	4							166	
		Unmarked	0	0	0	0	2	0							2	
Total			10	73	61	16	4	4							168	
Washougal River System	SSH	Marked							12	115					480	
		Unmarked							0	0					9	
Total								12	115						489	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES ¹															
System	Catch Area	Race	Marked/ Unmarked	1999						2000			Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		Feb	Mar
WENATCHEE RIVER SYSTEM	Icicle Creek	SSH	Marked Unmarked Total											5 0 5	
	Wenatchee River	SSH	Marked Unmarked Total				0	5	5			32	11	27	75 5 80
	Wenatchee River System	SSH	Marked Unmarked Total				0	5	5			32	11	27	80 5 85
WHITE SALMON RIVER SYSTEM	Big White Salmon River	SSH	Marked Unmarked Total	53	660	385	4								1,102 19 1,121
		WSH	Marked Unmarked Total									74	5	10	94 0 94
WIND RIVER SYSTEM	Wind River	SSH	Marked Unmarked Total				12	4							16 8 24
	Wind River above Shipherd Falls	SSH	Marked Unmarked Total	12	8				4						24 0 24
	Wind River below Shipherd Falls	SSH	Marked Unmarked Total	4	8	283	79								374 0 374
YAKIMA RIVER SYSTEM	Wind River System	SSH	Marked Unmarked Total	4	12	16	295	83	4						414 8 422
	Naches River	SSH	Marked Unmarked Total				0								0 11 11
	Yakima River	SSH	Marked Unmarked Total				5	0	5	32	11				53 0 53
	Yakima River System	SSH	Marked Unmarked Total				5	11	16	5	32	11			53 11 64

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COLUMBIA RIVER AND TRIBUTARIES ¹																
System	Catch Area	Race	Marked/ Unmarked	1999												Total
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
COLUMBIA RIVER AND TRIBUTARY SYSTEMS TOTALS		SSH	Marked	733	2,735	5,772	8,131	4,600	6,366	4,173	2,629	1,257	968	1,376	38,740	
			Unmarked	33	53	104	164	175	242	183	126	53	19	22	1,174	
			Total	766	2,788	5,876	8,295	4,775	6,608	4,356	2,755	1,310	987	1,398	39,914	
		WSH	Marked							348	3,004	4,073	890	642	8,957	
			Unmarked							4	107	106	59	30	306	
			Total							352	3,111	4,179	949	672	9,263	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS																		
System	Catch Area	Race	Marked/ Unmarked Total	1999														
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total			
BEAR RIVER SYSTEM	Bear River	WSH	Marked														3	
			Unmarked															0
			Total															3
CEDAR CREEK SYSTEM	Cedar Creek	SSH	Marked	6													6	
			Unmarked	0													0	
			Total	6													6	
		WSH	Marked														7	
			Unmarked														6	
			Total														13	
CHEHALIS RIVER SYSTEM*	Chehalis River	SSH	Marked	3	8	24	3										38	
			Unmarked	0	0	0	0										0	
			Total	3	8	24	3										38	
	Chehalis River SF	WSH	Marked														6	
			Unmarked														0	
			Total														6	
	Chehalis River above Black River	SSH	Marked			8											8	
			Unmarked			0											0	
			Total			8											8	
		WSH	Marked														42	
			Unmarked														0	
			Total														42	
	Chehalis River below Black River	SSH	Marked			3											8	
			Unmarked			0											0	
			Total			3											8	
		WSH	Marked														324	
			Unmarked														3	
			Total														327	
Newaukum River & NF		SSH	Marked														3	
			Unmarked														0	
			Total														3	
		WSH	Marked														181	
			Unmarked														0	
			Total														181	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS																		
System	Catch Area	Race	Marked/ Unmarked Total	1999												Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
CHEHALIS RIVER SYSTEM* (continued)	Satsop River & MF & EF	SSH	Marked Unmarked Total						5 0 5								5 0 5	
		WSH	Marked						3	19								100
			Unmarked						0	0								6
		Total						3	19								106	
	Satsop River WF	WSH	Marked Unmarked Total															3 0 3
		SSH	Marked					3										3
			Unmarked					0										0
		Total					3										3	
	Skookumchuck River	SSH	Marked															3
			Unmarked															0
			Total															3
	Van Winkle Creek	WSH	Marked															0
			Unmarked															3
Total																	3	
Wishkah River	WSH	Marked															58	
		Unmarked															0	
		Total															58	
Wynoochee River	SSH	Marked	140	145	124	70	30										509	
		Unmarked	0	3	0	0	0										3	
		Total	140	148	124	70	30										512	
Chehalis River System	WSH	Marked															2,872	
		Unmarked															70	
		Total															2,942	
Elk River	SSH	Marked	143	164	148	76	43										574	
		Unmarked	0	3	0	0	0										3	
		Total	143	167	148	76	43										577	
Goodman Creek	WSH	Marked															3,965	
		Unmarked															82	
		Total															4,047	
ELK RIVER SYSTEM*	WSH	Marked															27	
		Unmarked															3	
		Total															30	
GOODMAN CREEK SYSTEM*	WSH	Marked															80	
		Unmarked															17	
		Total															97	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

System		Catch Area	Race	Marked/ Unmarked	COAST RIVERS AND MARINE CATCH AREAS												Total		
					1999						2000								
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
HOH RIVER SYSTEM*	Hoh River	SSH	Marked				0	3										3	
		Unmarked				3	0											3	
	Total				3	3												6	
	Hoh River above Hwy. 101	SSH	Marked		9	15	9												9
		Unmarked		0	0	0													30
	Total			9	15	9													39
Hoh River below Hwy. 101	SSH	Marked		6	9	43	21											79	
	Unmarked		0	0	3	0												3	
Total			6	9	46	21												82	
Hoh River System	SSH	Marked					4	148										185	
	Unmarked						3	17										57	
Total							7	165										242	
Hoh River System	SSH	Marked		15	9	58	33											115	
	Unmarked		0	0	6	0												6	
Total			15	9	64	33												121	
Hoh River System	SSH	Marked					4	155										245	
	Unmarked						3	20										67	
Total							7	175										312	
HOQUIAM RIVER SYSTEM*	SSH	Marked																33	
	Unmarked																	0	
Total																		33	
HOQUIAM RIVER	SSH	Marked		19	9	13	3	9										36	
	Unmarked		0	0	0	0	0											0	
Total			19	9	13	3	9											36	
HUMPTULIPS RIVER SYSTEM*	SSH	Marked																3	
	Unmarked																	0	
Total																		3	
HUMPTULIPS RIVER	SSH	Marked					11	331										350	
	Unmarked						0	0										0	
Total							11	331										350	
HUMPTULIPS RIVER EF	SSH	Marked					3											3	
	Unmarked						0											0	
Total							3											3	
HUMPTULIPS RIVER	SSH	Marked																11	
	Unmarked																	0	
Total																		11	
HUMPTULIPS RIVER	SSH	Marked																31	
	Unmarked																	0	
Total																		31	
HUMPTULIPS RIVER	SSH	Marked																11	
	Unmarked																	0	
Total																		11	
HUMPTULIPS RIVER	SSH	Marked																42	
	Unmarked																	0	
Total																		42	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS																	
System	Catch Area	Race	Marked/ Unmarked	1999												Total	
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
HUMPTULIPS RIVER SYSTEM* (continued)	Humtuplups River WF	WSH	Marked Unmarked Total	11										14	3	3	31
				0								0	0	0	3	3	3
				11								14	3	6	34		
Stevens Creek	WSH	Marked Unmarked Total	3	115									79	25		222	
			0	0							0	0	0	0		0	
Humtuplups River System	SSH	Marked Unmarked Total	19	9	13	3	12						79	25		222	
			0	0	0	0					0	0	0	0		0	
JOHNS RIVER SYSTEM	Johns River	WSH	Marked Unmarked Total	14	488								454	68	20	1,044	
				0	0							0	0	3	3		
KALALOGH CREEK SYSTEM*	Kalaloch Creek	WSH	Marked Unmarked Total	14	488								454	68	23	1,047	
				12	26							79	17		134		
MOCLIPS RIVER SYSTEM*	Modclips River	SSH	Marked Unmarked Total	12	26								79	17		134	
				0	0							0	0	0	0		
NASELLE RIVER SYSTEM	Naselle River	WSH	Marked Unmarked Total	3	3								3	3		9	
				0	0							0	0	0	0		
MOCLIPS RIVER SYSTEM*	Modclips River	SSH	Marked Unmarked Total	6												6	
				0													
NASELLE RIVER SYSTEM	Naselle River	WSH	Marked Unmarked Total	10												10	
				0													
NASELLE RIVER SYSTEM	Naselle River	WSH	Marked Unmarked Total	155									83	16	3	257	
				0								3	0	0	3		
Salmon Creek	WSH	Marked Unmarked Total	155										86	16	3	260	
			0								3	0	0	3			
Naselle River System	WSH	Marked Unmarked Total	3										3			3	
			0								0			0			
Naselle River System	WSH	Marked Unmarked Total	155										86	16	3	260	
			0								3	0	0	3			
Naselle River System	WSH	Marked Unmarked Total	155										89	16	3	263	
			0								3	0	0	3			

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS															
System	Catch Area	Race	Marked/ Unmarked	1999					2000			Total			
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar
NEMAH RIVER SYSTEM	Nemah River, North & Middle & South	WSH	Marked									20	3		26
			Unmarked									0	0		0
			Total										20	3	
NORTH RIVER SYSTEM	North River	SSH	Marked				6								6
			Unmarked				0								0
			Total				6								
		WSH	Marked								66	13		79	
			Unmarked								3	7		13	
			Total								69	20		92	
	Smith Creek	WSH	Marked								13	7		27	
			Unmarked								0	0		0	
			Total								13	7		27	
	North River System	SSH	Marked				6							6	
			Unmarked				0							0	
			Total				6							6	
		WSH	Marked								79	20		106	
			Unmarked								3	7		13	
			Total								82	27		119	
OZETTE RIVER SYSTEM*	Big River	SSH	Marked						6					6	
			Unmarked						0					0	
			Total						6					6	
		WSH	Marked							3	3		6		
			Unmarked						0	0				0	
			Total						3	3				6	
	Ozette River	WSH	Marked								3	3		6	
			Unmarked								0	0		0	
			Total								3	3		6	
	Ozette River System	SSH	Marked						6					6	
			Unmarked						0					0	
			Total						6					6	
		WSH	Marked							3	3		12		
			Unmarked						0	0		0		0	
			Total						3	3		3		12	
PALIX RIVER SYSTEM	Palix River	WSH	Marked										0	0	
			Unmarked											3	
			Total											3	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS																			
System	Catch Area	Race	Marked/ Unmarked	1999												Total			
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
QUEETS RIVER SYSTEM*	Clearwater River	WSH	Marked											0	12	8	20		
			Unmarked												4	35	58	97	
			Total												4	47	66	117	
	Queets River	WSH	Marked												51	35	23	174	
			Unmarked												58	66	194	350	
		Total												109	101	217	524		
	Salmon River	SSH	Marked					9										9	
			Unmarked					0										0	
			Total					9										9	
	Queets River System	WSH	Marked																
Unmarked																			
Total																			
QUILLAYUTE RIVER SYSTEM*	Bogachiel River	SSH	Marked																
			Unmarked																
			Total																
	Calawah River & SF	SSH	Marked																
			Unmarked																
			Total																
	Dickey River	WSH	Marked																
			Unmarked																
			Total																
	Quillayute River	SSH	Marked																
		Unmarked																	
		Total																	
Queets River System	WSH	Marked																	
		Unmarked																	
		Total																	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS																			
System	Catch Area	Race	Marked/ Unmarked	1999												2000			Total
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
QUILLAYUTE RIVER SYSTEM* (continued)	Soleduck River	SSH	Marked	18	18	56	7	17										116	
			Unmarked	3	3	0	3	0											9
			Total	21	21	56	10	17											125
	Quillayute River System	WSH	Marked		7	79												84	
			Unmarked		0	40													766
			Total		7	119													1,250
	Quillayute River System	SSH	Marked	0	77	154	105	45	111									492	
			Unmarked	3	13	6	0	3	0										25
			Total	3	90	160	105	48	111										517
	Quillayute River System	WSH	Marked							222	771							1,927	
			Unmarked							3	118							1,467	
			Total							225	889								3,394
QUINAULT RIVER SYSTEM*	Quinault River Lower (& Cook Creek) ³	WSH	Marked								329							653	
			Unmarked								0	24	110	305				439	
			Total								329	239	198	326				1,092	
	Quinault River Upper	WSH	Marked								4							24	
			Unmarked								0	29	34	83				146	
			Total								4	37	42	87				170	
	Quinault River System	WSH	Marked								333							677	
			Unmarked								0	53	144	388				585	
			Total								333	276	240	413				1,262	
RAFT RIVER SYSTEM*	Raft River	WSH	Marked								3							7	
			Unmarked								0	3						3	
			Total								3	7						10	
SUEZ RIVER SYSTEM*	Suez (Sooes) River	SSH	Marked								6							6	
			Unmarked								0							0	
			Total								6							6	
	Waatch River	WSH	Marked								7							7	
			Unmarked								0	20						20	
			Total								7	20						27	
WAATCH RIVER SYSTEM*	Waatch River	WSH	Marked															3	
			Unmarked															0	
			Total															3	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

COAST RIVERS AND MARINE CATCH AREAS																
System	Catch Area	Race	Marked/ Unmarked Total	1999					2000			Total				
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar	
WILLAPA RIVER SYSTEM	Willapa River	SSH	Marked Unmarked Total				17	0	17						17	
		WSH	Marked Unmarked Total						3	228	201	78	66		576	
									3	0	3	3	0		6	
	Willapa River SF	SSH	Marked Unmarked Total	11	0	11										11
		WSH	Marked Unmarked Total								9	3			12	9
											3	12			3	3
Willapa River System	SSH	Marked Unmarked Total	11	17											28	
	WSH	Marked Unmarked Total													0	
															28	
MARINE CATCH AREAS	Area 1: Col. R. - Ledbetter Point	SSH	Marked Unmarked Total				5	0	5						5	
		WSH	Marked Unmarked Total							4	4				8	
										0	0	0			0	
	Area 2a: Willapa Bay	SSH	Marked Unmarked Total	5	5											10
		WSH	Marked Unmarked Total								8	0			8	8
											0	0			0	0
Marine Areas: 1 & 2a Total	SSH	Marked Unmarked Total	5	10											15	
	WSH	Marked Unmarked Total								4	12			16		
										0	0			0		
										4	12			16		

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

System		Catch Area	Race	Marked/ Unmarked Total	1999												2000			Total
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
MARINE CATCH AREAS*		Area 2: Westport	SSH	Marked Unmarked Total	5	0	0	5											10	
		Area 2b: Grays Harbor	SSH	Marked Unmarked Total	15	0	0	5	5										25	
			WSH	Marked Unmarked Total									16	0	0	4			32	
				Marked Unmarked Total									16	0	0	4			32	
		Area 3: Quillayute River	SSH	Marked Unmarked Total	5	0			5									10		
			WSH	Marked Unmarked Total										4	4			8		
				Marked Unmarked Total										4	0	0		8		
		Area 4: Cape Flattery	SSH	Marked Unmarked Total					5									5		
				Marked Unmarked Total										4	4			8		
				Marked Unmarked Total										4	0	4		8		
		Marine Catch Areas 2, 2b, 3 & 4 Total	SSH	Marked Unmarked Total	25	0	0	5	5									50		
			WSH	Marked Unmarked Total											4	20		40		
				Marked Unmarked Total											0	0	4	40		
COAST RIVER/STREAMS AND MARINE CATCH AREAS TOTALS			SSH	Marked Unmarked Total	0	270	357	297	223	222								1,369		
			WSH	Marked Unmarked Total	3	13	9	0	9	0								34		
				Marked Unmarked Total	3	283	366	297	232	222								1,403		
			SSH	Marked Unmarked Total														9,992		
			WSH	Marked Unmarked Total														3,256		
				Marked Unmarked Total														13,248		

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																			
System	Catch Area	Race	Marked/ Unmarked	1999												Total			
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
BURLEY CREEK SYSTEM*	Burley Creek	WSH	Marked											2				2	
			Unmarked											0				0	
			Total												2				2
CLALLAM RIVER SYSTEM*	Clallam River	WSH	Marked											12	7	2		26	
			Unmarked											0	5	0		5	
			Total												12	12	2		31
CURLEY CREEK SYSTEM*	Curley Creek	WSH	Marked											2				2	
			Unmarked											0				0	
			Total												2				2
DEEP CREEK SYSTEM*	Deep Creek	SSH	Marked				0											0	
			Unmarked				8											8	
			Total				8											8	
DESCHUTES RIVER SYSTEM*	Deschutes River	WSH	Marked											2				2	
			Unmarked											0				0	
			Total												2				2
PERCIVAL CREEK SYSTEM*	Percival Creek	SSH	Marked												2			2	
			Unmarked													2		2	
			Total													2		2	
DUNGENESS RIVER SYSTEM*	Dungeness River	WSH	Marked															0	
			Unmarked																8
			Total																8
DUNGENESS RIVER SYSTEM*	Dungeness River	SSH	Marked															0	
			Unmarked																8
			Total																8
DUNGENESS RIVER SYSTEM*	Dungeness River	WSH	Marked															0	
			Unmarked																8
			Total																8
ELWHA RIVER SYSTEM*	Elwha River	SSH	Marked															0	
			Unmarked																4
			Total																4
ELWHA RIVER SYSTEM*	Elwha River	WSH	Marked															7	
			Unmarked																47
			Total																54
ELWHA RIVER SYSTEM*	Elwha River	WSH	Marked															248	
			Unmarked																17
			Total																265
ELWHA RIVER SYSTEM*	Elwha River	SSH	Marked															73	
			Unmarked																4
			Total																77
ELWHA RIVER SYSTEM*	Elwha River	WSH	Marked															375	
			Unmarked																21
			Total																396

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

System	Catch Area	Race	Marked/ Unmarked	1999												Total			
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar					
				2000															
GREEN-DUWAMISH RIVER SYSTEM*	Green-Duwamish River	SSH	Marked	47	30	13	21	4										115	
			Unmarked	4	4	0	0	9										17	
			Total	51	34	13	21	13										132	
HOKO RIVER SYSTEM*	Hoko River	WSH	Marked						31	65	102	100	26					324	
			Unmarked						4	17	67	67	117	17					222
			Total						35	82	169	169	217	43					546
LAKE WASHINGTON SYSTEM*	Sammamish River	SSH	Marked	31	39												70		
			Unmarked	0	0													0	
			Total	31	39													70	
LYRE RIVER SYSTEM*	Lyre River	WSH	Marked														2		
			Unmarked																0
			Total																2
LYRE RIVER SYSTEM*	Lyre River	SSH	Marked	5	14	19	9										47		
			Unmarked	0	0	0	0											0	
			Total	5	14	19	9											47	
MILL CREEK SYSTEM*	Mill Creek	WSH	Marked														8		
			Unmarked																0
			Total																8
MISSION CREEK SYSTEM*	Mission Creek	SSH	Marked														1		
			Unmarked																0
			Total																1
MORSE CREEK SYSTEM*	Morse Creek	WSH	Marked														25		
			Unmarked																5
			Total																30
NOOKSACK RIVER SYSTEM*	Nooksack River MF	WSH	Marked														2		
			Unmarked																7
			Total																9
NOOKSACK RIVER SYSTEM*	Nooksack River NF	WSH	Marked														5		
			Unmarked																0
			Total																5
NOOKSACK RIVER SYSTEM*	Nooksack River, mainstem only	SSH	Marked														8		
			Unmarked																0
			Total																8

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																	
System	Catch Area	Race	Marked/ Unmarked	1999												Total	
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
NOOKSACK RIVER SYSTEM* (continued)	Nooksack River, mainstem only (continued)	WSH	Marked										16	9	5	30	
			Unmarked										0	0	0	0	
			Total										16	9	5	30	
	Nooksack River System	SSH	Marked					8								8	
			Unmarked					0								0	
			Total					8								8	
		WSH	Marked									7	28	13	12	60	
			Unmarked									0	0	5	0	5	
			Total									7	28	18	12	65	
PUYALLUP RIVER SYSTEM*	Carbon River	SSH	Marked					5								5	
			Unmarked					3								3	
			Total					8								8	
		WSH	Marked										110	20		140	
			Unmarked										0	0		0	
			Total										110	20		140	
	Puyallup River	SSH	Marked					3	5	8						16	
			Unmarked					0	0	3						3	
			Total					3	5	11						19	
	Stuck River	WSH	Marked										110	20	10	174	
			Unmarked										0	0	0	0	
			Total										110	20	10	180	
		SSH	Marked					3		8						11	
			Unmarked					0		0						0	
			Total					3		8						11	
		WSH	Marked										5	10		25	
			Unmarked										0	0		5	
			Total										5	10		30	
	Puyallup River System	SSH	Marked					6	10	16						32	
			Unmarked					0	3	3						6	
			Total					6	13	19						38	
		WSH	Marked										225	50	10	339	
			Unmarked										0	0	0	11	
			Total										20	50	10	350	
PYSHT RIVER SYSTEM*	Pysht River	SSH	Marked													0	
			Unmarked													8	
			Total													8	
		WSH	Marked										22	2	2	33	
			Unmarked										2	29	21	0	52
			Total										9	51	23	85	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																	
System	Catch Area	Race	Marked/ Unmarked	1999												Total	
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
SALT CREEK SYSTEM*	Salt Creek	WSH	Marked										2	0		2	
			Unmarked											0	2		2
			Total											2	2		4
SAMISH RIVER SYSTEM*	Samish River	SSH	Marked					31								31	
			Unmarked					0									0
			Total					31									31
SEKIU RIVER SYSTEM*	Sekiu River	WSH	Marked							2	2		12	12		28	
			Unmarked						0	7		30	21		2	60	
			Total						2	9		42	33		2	88	
SEKIU RIVER SYSTEM*	Sekiu River	SSH	Marked			31	23	23								77	
			Unmarked			0	0	0									0
			Total			31	23	23									77
SIEBERT CREEK SYSTEM*	Siebert Creek	WSH	Marked									7	2		9		
			Unmarked									0	0		0		
			Total									7	2		9		
SIEBERT CREEK SYSTEM*	Siebert Creek	WSH	Marked									5	0		5		
			Unmarked									0	5		5		
			Total									5	5		10		
SKAGIT RIVER SYSTEM*	Baker River	WSH	Marked												0		
			Unmarked											6	6	6	
			Total												6	6	6
SKAGIT RIVER SYSTEM*	Cascade River	WSH	Marked							3			12	6		21	
			Unmarked							0			0	0		0	
			Total						3			12	6		21		
SKAGIT RIVER SYSTEM*	Sauk River	SSH	Marked			8	4	12								24	
			Unmarked			0	0	0									0
			Total			8	4	12									24
SKAGIT RIVER SYSTEM*	Sauk River	WSH	Marked							3	0		3	33		39	
			Unmarked							3	3		9	47		71	
			Total						6	3		12	80		9	110	
SKAGIT RIVER SYSTEM*	Skagit River	SSH	Marked			29	21	4	8	4						66	
			Unmarked			4	4	4	0	0							12
			Total			33	25	8	8	4							78
SKAGIT RIVER SYSTEM*	Skagit River	WSH	Marked							6	40		200	173	18	437	
			Unmarked							0	10		147	127	0	284	
			Total						6	50		347	300	18	721		
SKAGIT RIVER SYSTEM*	Skagit River System	SSH	Marked			29	29	8	20	4						90	
			Unmarked			4	4	4	0	0							12
			Total			33	33	12	20	4							102

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																		
System	Catch Area	Race	Marked/ Unmarked	1999												Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
SKAGIT RIVER SYSTEM* (continued)	Skagit River System (cont.)	WSH	Marked											215	212	18	497	
			Unmarked												156	180	9	361
			Total													371	392	27
SKOKOMISH RIVER SYSTEM*	Skokomish River SF & NF	WSH	Marked													14	16	
			Unmarked														0	0
			Total															14
Vance Creek	WSH	Marked												7			10	
		Unmarked												2	0		2	
		Total												7	0		12	
Skokomish River System	WSH	Marked												7		14	26	
		Unmarked												0	0	0	2	
		Total												7	0	14	28	
Pilchuck River	WSH	Marked												82	25		114	
		Unmarked												7	0	18		
		Total												89	25	132		
Raging River	SSH	Marked			3												15	
		Unmarked			0												0	
		Total			3												15	
WSH	WSH	Marked												11	7		107	
		Unmarked												0	0	0	0	
		Total												11	7		107	
Skykomish River	SSH	Marked	246	307	404	228	270										1,455	
		Unmarked	6	12	9	6	3										36	
		Total	252	319	413	234	273										1,491	
WSH	WSH	Marked												178	419	107	1,666	
		Unmarked												0	11	0	18	
		Total												178	430	107	1,684	
Skykomish River NF	SSH	Marked	3	3	33	12	24										75	
		Unmarked	0	0	0	0	3										3	
		Total	3	3	33	12	27										78	
WSH	WSH	Marked												7	11		57	
		Unmarked												0	0	4	4	
		Total												7	11	4	61	
Skykomish River SF	SSH	Marked			12	3	15	3									33	
		Unmarked			0	0	0	0									0	
		Total			12	3	15	3									33	
WSH	WSH	Marked												11	14		25	
		Unmarked												0	0	0	0	
		Total												11	14		25	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

System	Catch Area	Race	Marked/ Unmarked	1999												Total		
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
				2000														
SNOHOMISH RIVER SYSTEM* (continued)	Snohomish River	SSH	Marked	106	134	12	9	15									276	
			Unmarked	0	0	0	0	0										0
			Total	106	134	12	9	15										276
		Snoqualmie River	WSH	Marked						4	220				146	21	21	412
			Unmarked	82	97	61	94	70			0	11			25	0	0	36
			Total	82	97	61	97	70			4	231			171	21	21	448
		Snoqualmie River	SSH	Marked														404
			Unmarked	0	0	0	3	0										3
			Total	0	0	0	3	0										3
		Sulttan River	WSH	Marked														975
			Unmarked															50
			Total															1,025
		Sulttan River	SSH	Marked	3	3	3											6
			Unmarked	0	3	6												3
			Total	3	6	9												9
	Tokul River	WSH	Marked														22	
		Unmarked															11	
		Total															33	
	Tolt River	WSH	Marked														175	
		Unmarked															7	
		Total															182	
	Wallace River	WSH	Marked														103	
		Unmarked															11	
		Total															114	
	Woods Creek & WF	SSH	Marked														285	
		Unmarked															14	
		Total															299	
	Snohomish River System	SSH	Marked														9	
		Unmarked															0	
		Total															9	
	Snohomish River System	WSH	Marked														8	
		Unmarked															8	
		Total															16	
	Snohomish River System	SSH	Marked	440	556	525	358	394									2,273	
		Unmarked	6	12	12	9	6										45	
		Total	446	568	537	367	400										2,318	
	Snohomish River System	WSH	Marked														3,949	
		Unmarked															169	
		Total															4,118	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

System		Catch Area	Race	Marked/ Unmarked	1999												Total	
					May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar			
					2000													
STILLAGUAMISH RIVER SYSTEM*	Canyon Creek	SSH	Marked	11				5										16
		Unmarked	0				0											0
		Total	11				5											16
	Pilchuck Creek	WSH	Marked							5	5							33
		Unmarked								0	0							9
		Total								5	5							42
	Stillaguamish River	WSH	Marked								5	9						14
		Unmarked									0	0						0
		Total									5	9						14
	Stillaguamish River NF	SSH	Marked		5	22	76	22	71									196
		Unmarked		0	16	0	0	0										16
		Total		5	38	76	22	71										212
Stillaguamish River SF	SSH	Marked							57	152							1,131	
	Unmarked								0	9							47	
	Total								57	161							1,178	
Tahuya River	SSH	Marked		5		6											11	
	Unmarked		0		5												5	
	Total		5		11												16	
Union River	WSH	Marked								0							0	
	Unmarked									5							10	
	Total									5							10	
Tahuya River	SSH	Marked		21	22	87	22	71									223	
	Unmarked		0	16	5	0	0										21	
	Total		21	38	92	22	71										244	
Union River	WSH	Marked							67	180							1,202	
	Unmarked								5	14							71	
	Total								72	194							1,273	
Tahuya River	WSH	Marked								2							2	
	Unmarked									0							0	
	Total									2							2	
Union River	SSH	Marked							8								8	
	Unmarked								0								0	
	Total								8								8	
Union River	WSH	Marked								7							9	
	Unmarked									0							0	
	Total									7							9	
Union River	WSH	Marked									2						2	
	Unmarked									0							0	
	Total									2							2	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

PUGET SOUND AND STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS																
System	Catch Area	Race	Marked/ Unmarked	1999					2000			Total				
				May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Jan	Feb	Mar	
WHATCOM CREEK SYSTEM*	Whatcom Creek	WSH	Marked									2			2	
			Unmarked										0			0
			Total										2			2
MARINE CATCH AREAS*	Area 5: West Juan de Fuca	WSH	Marked									2			4	
			Unmarked									0			0	
	Total										2			4		
	Area 6: East Juan de Fuca	WSH	Marked									2			6	
			Unmarked									0			0	
	Total										2			2		
Area 8: Skagit Bay-Port Susan	WSH	Marked									0			0		
		Unmarked									2			2		
Total										2			2			
Area 9: Admiralty Inlet	SSH	Marked				19									19	
		Unmarked				0									0	
Total						19								19		
Area 10: North Puget Sound	WSH	Marked										55	2		131	
		Unmarked										2	0		4	
		Total										6	2		135	
Area 11: Mid-Puget Sound	SSH	Marked						0							0	
		Unmarked									9				9	
		Total									9				9	
Marine Catch Areas	WSH	Marked										6	4	2	12	
		Unmarked										0	0	0	0	
		Total										6	4	2	12	
PUGET SOUND, STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS TOTALS	SSH	Marked										19			19	
		Unmarked									9				9	
		Total										28			37	
PUGET SOUND, STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS TOTALS	WSH	Marked										65	6	4	153	
		Unmarked									0	2	0	0	6	
		Total									6	74	6	4	159	
PUGET SOUND, STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS TOTALS	SSH	Marked	0	542	700	738	519	544							3,043	
		Unmarked	4	14	44	38	12	35							147	
		Total	4	556	744	776	531	579							3,190	
PUGET SOUND, STRAIT OF JUAN DE FUCA RIVER SYSTEMS AND MARINE CATCH AREAS TOTALS	WSH	Marked									455	2,208	3,546	1,442	8,071	
		Unmarked									12	157	488	436	1,159	
		Total									467	2,365	4,034	1,878	9,230	

Table 33. 1999-2000 Steelhead Sport Catch, by Area and Month (continued)

STATEWIDE STEELHEAD HARVEST SUMMARY, 1999-2000																	
System	Run Type	Marked/ Unmarked	1999												Total		
			May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar				
NON-BOLDT CASE AREAS	SSH	Marked	733	2,741	5,777	8,148	4,627	6,366	4,173	2,629				1,257	971	1,379	38,801
		Unmarked	33	53	104	164	175	242	183	126				53	19	22	1,174
		Total	766	2,794	5,881	8,312	4,802	6,608	4,356	2,755				1,310	990	1,401	39,975
BOLDT CASE AREAS*	WSH	Marked							367	3,438				4,547	1,028	714	10,094
		Unmarked							4	110				121	75	30	340
		Total							371	3,548				4,668	1,103	744	10,434
TOTAL CATCH	SSH	Marked	0	806	1,047	1,018	720	766									4,357
		Unmarked	7	27	53	38	21	35									181
		Total	7	833	1,100	1,056	741	801									4,538
TOTAL RIVERS ⁴	WSH	Marked							745	4,413				6,297	3,426	2,045	16,926
		Unmarked							47	361				1,142	1,285	1,546	4,381
		Total							792	4,774				7,439	4,711	3,591	21,307
TOTAL CATCH	SSH	Marked	733	3,547	6,829	9,166	5,342	7,132	4,173	2,629				1,257	968	1,376	43,152
		Unmarked	40	80	157	202	196	277	183	126				53	19	22	1,355
		Total	773	3,627	6,986	9,368	5,538	7,409	4,356	2,755				1,310	987	1,398	44,507
TOTAL RIVERS ⁴	WSH	Marked							1,112	7,851				10,844	4,454	2,759	27,020
		Unmarked							51	471				1,263	1,360	1,576	4,721
		Total							1,163	8,322				12,107	5,814	4,335	31,741
TOTAL RIVERS ⁴			15	45	56	66	72	73	74	122			138	116	84	861	

* Boldt case area river/stream system (Western Washington only).

¹ The majority of the Columbia River System steelhead are summer-runs.

² Fish caught in this section of the Cowlitz River System are considered resident trout.

³ Winter steelhead catches are from angler surveys conducted by the Quinault Indian Nation.

⁴ Total number of rivers where steelhead were harvested during that month.

Table 34. 1999-2000 Washington Sport Steelhead Fishing, by Residence

County of Residence	# Catch Record Cards	Population by County	% Catch Record Card Holders	Total Steelhead	Average Catch per Catch Record Card
Adams	389	16,190	2.40	315	0.81
Asotin	626	20,614	3.04	804	1.28
Benton	8,873	140,415	6.32	4,932	0.56
Chelan	344	66,913	0.51	181	0.53
Clallum	4,647	64,365	7.22	2,848	0.61
Clark	18,990	337,625	5.62	4,288	0.23
Columbia	474	4,272	11.10	938	1.98
Cowlitz	12,018	92,700	12.96	5,696	0.47
Douglas	326	32,524	1.00	13	0.04
Ferry	13	4,271	0.30		
Franklin	3,010	48,306	6.23	1,849	0.61
Garfield	22	2,388	0.92	13	0.59
Grant	568	73,555	0.77	174	0.31
Grays Harbor	5,403	67,349	8.02	2,399	0.44
Island	1,673	70,512	2.37	94	0.06
Jefferson	908	25,664	3.54	208	0.23
King	20,596	1,720,089	1.20	6,433	0.31
Kitsap	4,021	229,568	1.75	1,220	0.30
Kittitas	756	34,538	2.19	7	0.01
Klickitat	1,463	18,793	7.78	275	0.19
Lewis	4,879	68,542	7.12	2,406	0.49
Lincoln	125	10,144	1.23	114	0.91
Mason	1,829	48,513	3.77	985	.54
Okanogan	170	39,429	0.43	20	0.12
Pacific	1,516	20,979	7.23	536	0.35
Pend Oreille	134	11,654	1.15	20	0.15
Pierce	12,165	691,565	1.76	3,015	0.25
San Juan	121	14,019	0.86		
Skagit	4,446	102,071	4.36	931	0.21
Skamania	483	9,585	5.04	335	0.69
Snohomish	15,895	591,590	2.69	5,206	0.33
Spokane	4,593	416,713	1.10	2,901	0.63
Stevens	237	38,761	0.61	74	0.31
Thurston	5,814	205,557	2.83	2,245	0.39
Wahkiakum	631	3,875	16.28	878	1.39
Walla Walla	3,430	55,108	6.22	3,377	0.98
Whatcom	3,824	164,282	2.33	462	0.12
Whitman	1,105	41,192	2.68	637	0.58
Yakima	9,285	223,596	4.15	3,498	0.38
Unknown WA	953	n/a	n/a	450	0.47
Washington Total	156,775	5,830,835	2.69	60,783	0.39
Other State Total	10,698	n/a	n/a	3,035	0.28
Canada	98	n/a	n/a		
Unknown	15,963	n/a	n/a	12,436	0.78
Foreign	4	n/a	n/a		
Grand Total	183,518	5,830,835	3.15	76,248	0.42

Note: The figures do not accurately multiply across because of bias adjustment factor and rounding of numbers.
 Source: Intercensal estimates of the Total Resident Population by County (http://www.ofm.wa.gov/pop6098/C60T_01.xls).

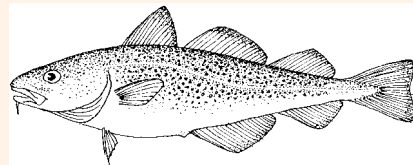
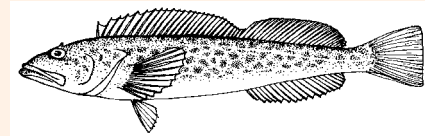
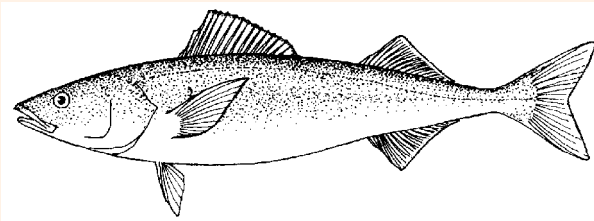
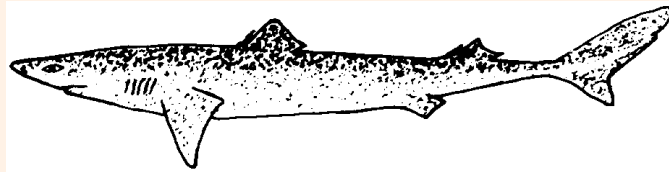
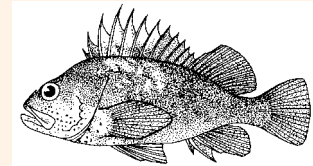
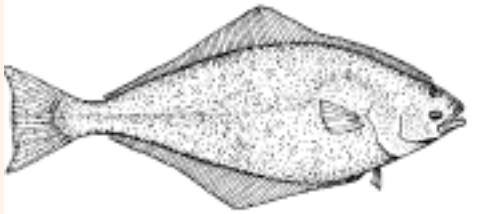
Table 35. 1999-2000 Frequency Distribution of Estimated Steelhead Catch Record Cards and Catch								
#Steelhead per Catch Record Card	# of Cards	Cumulative # of Cards	Percent Cards	Cumulative Percent Cards	Total Catch	Cumulative Total Catch	Percent Catch	Cumulative Percent Catch
0	160,552	160,552	87.48	87.48	0	0	0.00	0.00
1	9,852	170,404	5.37	92.85	10,200	10,220	13.38	13.38
2	4,457	174,861	2.43	95.28	9,230	19,430	12.10	25.48
3	2,509	177,370	1.37	96.65	7,793	27,223	10.22	35.70
4	1,498	178,868	0.82	97.47	6,204	33,427	8.14	43.84
5	1,020	179,888	0.56	98.02	5,281	38,708	6.93	50.76
6	928	180,816	0.51	98.53	5,766	44,474	7.56	58.32
7	597	181,413	0.33	98.85	4,329	48,803	5.68	64.00
8	460	181,873	0.25	99.10	3,806	52,609	4.99	68.99
9	322	182,195	0.18	99.28	2,997	55,606	3.93	72.92
10	257	182,452	0.14	99.42	2,664	58,270	3.49	76.42
11	221	182,673	0.12	99.54	2,512	60,782	3.29	79.71
12	74	182,747	0.04	99.58	913	61,695	1.20	80.91
13	119	182,866	0.07	99.64	1,608	63,303	2.11	83.02
14	83	182,949	0.05	99.69	1,199	64,502	1.57	84.59
15	119	183,068	0.07	99.75	1,855	66,357	2.43	87.02
16	55	183,123	0.03	99.78	913	67,270	1.20	88.22
17	37	183,160	0.02	99.80	647	67,917	0.85	89.07
18	55	183,215	0.03	99.83	1,028	68,945	1.35	90.41
19	37	183,252	0.02	99.85	723	69,668	0.95	91.36
20	46	183,298	0.03	99.88	952	70,620	1.25	92.61
21	37	183,335	0.02	99.90	799	71,419	1.05	93.66
22	46	183,381	0.03	99.92	1,047	72,466	1.37	95.03
23	37	183,418	0.02	99.94	875	73,341	1.15	96.18
24	18	183,436	0.01	99.95	457	73,798	0.60	96.78
26	18	183,454	0.01	99.96	495	74,293	0.65	97.43
27	9	183,463	0.01	99.97	257	74,550	0.34	97.77
29	18	183,481	0.01	99.98	552	75,102	0.72	98.49
30	28	183,509	0.02	99.99	856	75,958	1.12	99.61
31	9	183,518	0.01	100.00	295	76,253	0.39	100.00
Total	183,518		100.00		76,253		100.00	

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

Table 36A. 1999-2000 Steelhead Technical Catch Data	
Records on File	Estimates and Calculations
Name and Address File	41,031
Catch Record Cards (In Sample Returns)	19,968
Correction Data	
Correction Factor	4,081 / 4,543 =
Percentage of voluntarily returned catch records with matching names and addresses	.898
Name/Address Corrected for Dealer Non-Response	41,031 / .898 =
	45,692
Estimated Number of Catch Records Issued	2,115 / .898 x 19.48 x 4 =
	183,520
Catch Expansion Factor	183,520 / 19,968 =
	9.19
Non-response bias adjustment based on telephone survey	1.02

Table 36B. 1999-2000 Sport Steelhead Inventory of Catch Record Cards Received												
Response Code*	Number of Cards with Catch			Number of Cards without Catch			Total Cards & Letters	Number of Steelhead			Total Cards & Letters	
	Catch Records	Reminder Letters	Remainder Letters	Catch Records	Reminder Letters	Remainder Letters		Catch Records	Reminder Letters	Total Steelhead		
1	652			2,114			2,766	732			.27	.27
2	539	459		2,834	6,465		10,297	606	544		.11	.11
4	89	166		301	2,829		3,448	1,004	147		.33	.33
7	840			2,337			3,177	933			.29	.29
8	27			253			280	28			.10	.10
Total	2,147	625		7,839	9,294		19,968	3,303	691	3,994	.33	.07
*Response Codes												
1 Prior to any reminder sent												
2 After first reminder												
4 After second reminder												
7 From sporting goods dealer												
8 Unknown return date												

Marine Fish



Species	Ilwaco	Westport	La Push	Neah Bay	Total
Black Rockfish	3,388	142,040	7,093	44,921	197,442
Canary Rockfish	385	4,348	444	3,058	8,235
China Rockfish	38	31	141	2,293	2,503
Yelloweye Rockfish	423	1,413	549	3,188	5,573
Blue Rockfish	147	552	371	5,501	6,571
Yellowtail Rockfish	122	7,717	633	3,641	12,113
Copper Rockfish	3	70	90	1,637	1,800
Quillback Rockfish	87	800	146	2,129	3,162
Bocaccio Rockfish	0	63	2	180	245
Vermillion Rockfish	2	0	15	358	375
Tiger Rockfish	59	113	40	173	385
Cabezon	137	90	98	1,738	2,063
Lingcod	615	4,702	1,407	8,163	14,887
Kelp Greenling	56	213	136	3,538	3,943
Pacific Halibut	343	1,740	309	15,177	17,569
Flatfish (general)	41	102	13	168	324
Pacific Cod	0	1	0	367	368
Cod (general)	1	12	0	11	24
Surfperch (general)	713	60	1	3	777
Skates & Rays	13	85	0	34	132
Rockfish (general)	426	48	0	123	597
Tuna	51	3,764	6	80	3,901
Miscellaneous	491	490	87	1,906	2,974
TOTAL	7,541	168,454	11,581	98,387	285,963

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
1998	2,940	6,127
1999	2,126	4,773

Table 39. 1999 Sport bottomfish catch by boat-based anglers in Puget Sound

Species	Catch Record Area										Puget Sound Total	
	5	6	7	8	9	10	11	12	13			
Pacific halibut												1,445
Flatfishes except halibut	7	293	285	2,800	2,434	5,693	2,589	5,078	7,862	27,041		
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0
Lingcod	10	3	55	0	2	75	30	0	73	248		
Rockfishes	1,459	1,030	4,328	679	340	1,981	831	3,445	874	14,967		
Pacific cod	0	0	0	0	3	1	31	0	0	35		
Walleye pollock	0	0	0	0	0	0	12	0	0	12		
Surfperches	0	0	0	1,804	0	15	0	0	71	1,890		
Sculpins	3	12	759	1,419	8	16	26	247	64	2,554		
Spiny dogfish	0	6	3	19	0	48	29	0	0	105		
Misc. bottomfishes	341	152	1,467	751	0	13	6	464	8	3,202		
Total	1,820	1,496	6,897	7,472	2,787	7,842	3,554	9,234	8,952	51,499		

Note: The catch of Pacific halibut is estimated by a catch record for halibut, and harvest is 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, substantial closures in the recreational salmon fishery have precluded complete boat-based recreational bottomfish estimates in most Puget Sound Catch Record Areas. The estimates appearing in this table, therefore, are incomplete.

Shellfish

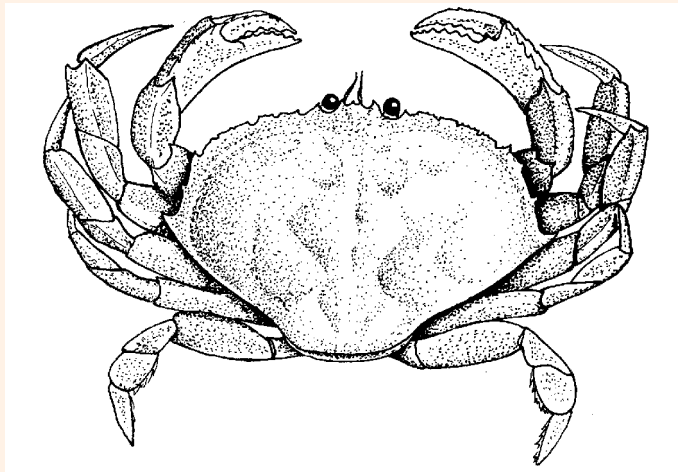


Table 40. 1999 Recreational Use and Harvest Estimates from Intertidal Areas East of Dungeness Spit

Marine Area	Beach Name	User Trips (2)	Pounds of Clams Harvested										# Oysters	lbs Oysters (3)		
			Manila	Native	Littleneck	Butter	Cockle	Soft Shell	Horse	Geoduck	Total Clams					
6	Cline Spit	304	84	788	871	12	16	71	56	1,755						
	Dungeness	189	425	425	69	16	71	56	1,062							
	N. Sequim Bay Sp	1,210	1	2,739	929	209	209	124	6,742							15,037
	Old Town	236	80	325	466	135	135	136	1,557							
	Pitship Point	337	111	460	652	189	189	197	2,194							
	Sequim Bay Sp	156	53	215	309	90	90	90	1,026							
	Maynard	1,539	75	3,163	3,238	161	256	482	7,464							18,341
7	Spencer Spit Sp	709		929	62	19	19	451	1,461							
	English Camp	459	14	1,237		53	53	1,304	3,406							
	N English Camp	574	47	2,454	239	495	133	38	3,406							30
	Birch Bay Sp	8,984	999	15,295	16,017	1,496	575	5,333	2	39,717						20,633
	Samish Is Rec Area	1,122		1,289	1,882	116	19	2,985	25	6,316						
	Camano Island Sp	4,745		6,298	22,956	478	1,842	31,574								
8-1	Penn Cove	629		142	354	2,691	41	3,228								
	North Penn Cove	6,147		7,382	25,852	2,860	523	36,617								
	Long Pt	2,636		2,837	15,093	202	340	18,472								
	Ala Spit	961		1,484	2,918	285	14	77	4,778							
	Freeland CP	3,289	8,739	649	537	7	67	628	10,030							
	Winas-Maylor Pt-East	3,313		4,645	9,942	727	1	9	15,943							
	Kayak Point Cp	283	49	329		9	9	396								
	Double Bluffs Sp	2,125		1,143	13,770	25	234	15,172								
	Fort Flagler Sp	1,764		3,993	2,079	770	785	11,620								
	Oak Bay	26	9	36	51	15	15	172								
	Oak Bay Sp	1,329	276	1,409	3,374	133	1,925	22	8,831							83
	P. T. Ship Canal	3,738	4	1,991	19,215	9,046	29	3,226	12	35,518						62
8-2	S Indian Island	6,367	3,334	9,259	10,639	425	125	2,996	39,371							35
	Mystery Bay Sp	125														101
	Blake Island Sp	114		67	734	1	9	878								
	E Indianola	110		64	708	1	9	846								
	W Pt Jefferson	105		61	676	1	9	808								
	Bremerton Coal	1,348	2	794	8,371	17	112	10,094								
9	Brownsville	142		83	915	2	12	1,095								
	Illalhee Sp	343	14	284	46	7	15	678								214
	Point White	13		8	85	1	6	102								
	S Agate Pass	75		44	485	1	1	580								
	SW Agate Pass	14		8	90	1	1	107								

(continued on next page)

Table 40. 1999 Recreational Use and Harvest Estimates from Intertidal Areas East of Dungeness Spit (continued)

Marine Area	Beach Name	User Trips (1)	Pounds of Clams Harvested										# Oysters	lbs Oysters (2)
			Manila	Native	Littleneck	Butter	Cockle	Soft Shell	Horse	Geoduck	Total Clams			
12	Shine Tidelands	5,766	869	5,124	5,993	6,632	6,573	260	7,205		32,656	9,703	442	
	Wolfe Prop Sp	3,285	6,585	7,278	1,343	774	16	333	17,022		32,608	1,487		
	Coast Broad Sp	355	237	343	116	76	6	62	945		3,595	164		
	Coast E Dabob	254	170	245			4		494		2,573	117		
	Coast Property	2,867	4,347	4,420			1		8,840		17,101	780		
	Dnr 57-B Brown	3,190	4	1,913	8,915	74		2,218	15,033					
	DNR 59-A Case S	142	42	42	46	31			161		1,436	65		
	Dosewallips Sp	14,119	34,382	34,546			3,338	89	72,650	81	132,606	6,047		
	Kitsap Memorial	2,306	84	1,317	2,094	50	52	1,742	6,591	68	25,600	1,167		
	Pt Whitney	621	784	787					1,574		9,335	426		
	Eagle Creek	1,318	68	282	83	507		4	1,157		19,964	910		
	DNR-44A W Dewat	821	445	710	4		121		1,545		14,726	672		
	Potlatch West S	7,909	1,080	5,882	1,757	171	300	27	14,019		85,273	3,888		
	Potlatch-DNR	2,188	793	5,498	818	42			11,857		71	3		
	Potlatch-East S	1,370	915	1,321	446	295	22	240	3,646	1	13,858	632		
	Rendsland Creek	1,583	674	1,224	315	1,247	9	38	4,057		22,797	1,040		
	S Lilliwaup	496	184	276	95	249	27	4	927		3,928	179		
	Twanoh Sp	9,491							156,734			7,147		
	13	Saltwater Sp	40	23	23	257					303			
		SE Narrows	359	178	256	281	51		369		1,213			
Cutts Island		161	16	16	490			1,416		1,938				
Kopachuck Sp		397									7,094	323		
Penrose Point		1,205	664	1,049	1,875	346	22	2,160	6,501	10,074	459			
Purdy County Pr		680	337	337	533	96	12		1,315	7,591	346			
North Bay Res-E		1,779	880	1,267			31	1,828	4,392	19,852	905			
Fry Cove		1,023	506	728	802		18	1,051	3,327	11,418	521			
Gallagher Cove		118	58	84	92	17	2	121	400					
Gallagher Cove		11	6	8	9	2		12	39					
Hope Island Sp		3,195	1	1,847	16,995		2	1,207	4,464	26,363	3,262	149		
Oakland Bay Res		292	145	145			5		295		538	25		
Oakland Bay Res		48	24	24			1		49					
Oakland Bay Res	48	24	24			1	50	99						
Total		123,091	68,792	95,473	108,304	203,871	5,339	42,965	4,765	560,941	690,030	31,465		

Note:

1. Includes combined clam and oyster users.
2. Estimated weight of shucked meats.

Date	Pots Fished	Pounds	CPUE
May 15	5,156	20,890	4.05
May 19	3,258	13,855	4.25
May 22	4,772	21,344	4.47
May 26	2,405	10,059	4.18
June 2	1,176	5,614	4.77
TOTAL	16,767	71,762	4.28

Catch Code and Catch Area		Pot Days	Number of Dungeness Crab
20A	Gulf of Georgia	37,397	57,289
20B	North of San Juan Islands	4,006	4,768
21A	Bellingham Bay	10,786	19,363
21B	Samish Bay	11,860	20,814
22A	San Juan Islands	104,954	97,982
22B	Anacortes	17,061	29,004
23D	Port Angeles Harbor	9,823	3,452
24A	Skagit Bay	45,478	50,805
24B	Port Susan	21,813	35,303
24C	Saratoga Passage	35,562	67,375
24D	Holmes Harbor	8,604	16,278
25A	Dungeness & Sequim Bays	30,611	18,743
25B	Admiralty Inlet	1,617	1,013
25C	Port Ludlow/Port Gamble	19,463	11,553
25D	Port Townsend Bay	19,616	12,814
25E	Discovery Bay	7,635	6,074
26A	Useless Bay, Port Gardner	22,498	28,044
26B	Seattle, Kingston	17,778	16,825
26C	Port Orchard	1,367	1,186
26D	Colvos Pass, East Pass	3,006	1,956
27A	Upper Hood Canal	39,941	43,763
27B	Central Hood Canal	11,132	12,428
27C	Lower Hood Canal	40,462	57,267
Total		522,470	614,099

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