

STATUS REPORT

COLUMBIA RIVER FISH RUNS AND FISHERIES 1938-2000

TABLES ONLY

Washington Department of Fish and Wildlife

Oregon Department of Fish and Wildlife

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APPENDIX

Introduction

The following tables are updated from the 1999 volume. An attempt has been made to standardize the sources and methods of computation. These are variable, depending to a large extent on the type and amount of biological work done in the past. The information since 1951 is more reliable than that for earlier periods. The format and information in tables are under constant revision to make the publication an accurate and valuable handbook for fishery workers.

Sources of Landing Statistics

Landing statistics for the earlier period were, whenever possible, published values from Craig and Hacker (1940), Cleaver (1951), Smith (1956), and FCO and WDF (1971). Commercial landing statistics since 1948 were obtained from tabulation of the combined Oregon and Washington fish receiving tickets provided to and returned by fish buyers. Recreational catch and effort statistics are obtained from sampling programs or tabulation of angler-returned catch records. Treaty Indian ceremonial and subsistence catches are provided by the tribes. The values that are preliminary are listed with parentheses in the tables.

Sources of Average Weight Values

The average weight values required to calculate numbers of fish landed from poundage records were obtained from several sources. During 1938-1950, constant values were used for Zones 1-5 and Zone 6. Between 1951 and 1956, the research staffs of WDF and FCO conducted a sampling program that included counts and corresponding weights of large numbers of salmon and steelhead by week of fishing and zone of landing. During 1957-1967, we calculated average weights for chinook and sockeye salmon from length-weight formulae for some seasons and most years. When neither length nor average weight data were collected, the most appropriate 1951-1956 overall average weights were used.

Since 1967, the average weight values required to calculate numbers of commercial fish landed from fish receiving tickets were obtained from weights of fish sampled randomly at various buyers.

Computation of Run Size and Escapement

The estimates of the size of upriver runs were obtained by adding the lower river landings to the appropriate Bonneville Dam counts. Beginning in 1980, various stocks of fall chinook, and, in 1981, various stocks of spring chinook, were estimated on the basis of CWT recoveries or GSI analyses, not timing of catches. The escapement is estimated by subtracting the treaty Indian landings from the count at Bonneville Dam.

Table 1. Minimum Numbers (in Thousands) of Salmon and Steelhead, Including Jacks, Entering the Columbia River, 1938-2000.

Year	Chinook			Sockeye	Coho 2/	Chum 3/	Steelhead		Total
	Spring 1/	Summer	Fall				Winter 4/	Summer	
1938	118.4	122.7	582.2	168.0	271.9	157.0	--	249.6	1,669.8
1939	155.5	191.8	550.3	124.8	184.2	96.3	--	232.0	1,534.9
1940	97.6	112.7	742.9	196.0	164.4	102.8	--	422.8	1,839.2
1941	129.0	106.5	1,175.7	173.6	131.5	340.1	--	336.8	2,393.2
1942	87.9	94.8	979.0	94.5	83.8	425.5	--	297.2	2,062.7
1943	133.8	57.0	600.9	73.4	80.9	78.7	--	216.0	1,240.7
1944	78.4	67.1	709.8	24.6	174.2	22.6	--	232.3	1,309.0
1945	118.8	52.6	711.7	10.9	204.6	48.3	--	268.4	1,415.3
1946	199.3	72.0	831.9	101.1	121.5	72.7	--	268.0	1,666.5
1947	251.8	86.3	903.6	335.3	176.2	40.7	--	261.8	2,055.7
1948	173.3	86.9	899.2	143.2	134.5	85.6	--	240.1	1,762.8
1949	178.3	57.8	550.5	52.6	100.7	44.7	--	162.5	1,147.1
1950	146.1	69.3	588.6	112.6	125.9	58.9	--	179.0	1,280.4
1951	259.0	116.4	385.6	203.7	112.4	46.1	--	244.5	1,367.7
1952	319.8	114.5	323.0	318.9	126.3	28.9	--	383.1	1,614.5
1953	342.4	95.0	257.3	260.0	61.3	22.9	76.8	361.3	1,477.0
1954	237.4	114.8	231.9	180.0	37.4	28.5	49.8	289.5	1,169.3
1955	317.1	147.6	281.5	245.0	64.3	10.7	56.0	298.8	1,421.0
1956	297.9	195.2	312.7	202.0	64.4	4.7	51.2	200.7	1,328.8
1957	307.8	207.0	276.6	147.8	55.1	4.2	54.8	229.6	1,282.9
1958	268.5	187.5	393.2	313.3	24.2	8.3	48.4	211.2	1,454.6
1959	198.2	169.8	296.0	270.7	21.2	5.5	61.0	231.6	1,254.0
1960	175.2	142.6	246.1	179.1	47.7	3.0	56.5	199.8	1,050.0
1961	203.8	129.2	252.3	60.2	112.4	3.1	94.4	227.9	1,083.3
1962	255.4	108.0	290.6	42.9	184.7	5.7	78.7	251.7	1,217.7
1963	219.0	100.0	265.1	79.9	161.9	3.0	79.4	228.8	1,137.1
1964	247.2	97.0	372.2	104.9	453.9	3.2	79.9	178.6	1,536.9
1965	241.9	82.1	399.2	55.2	519.0	1.5	120.3	227.3	1,646.5
1966	236.1	74.8	347.8	174.8	785.9	3.1	133.1	208.6	1,964.2
1967	240.5	100.7	385.0	180.2	694.2	2.1	111.5	167.3	1,881.5
1968	199.5	89.4	346.3	134.8	423.9	0.6	122.5	161.2	1,478.2
1969	295.0	106.2	471.0	75.8	463.4	1.1	66.8	191.2	1,670.5
1970	252.7	72.9	532.2	95.4	1,079.0	1.2	134.5	157.0	2,324.9
1971	266.9	89.5	488.6	150.5	648.7	1.1	169.2	248.5	2,063.0
1972	353.3	77.5	338.3	123.3	362.6	2.4	113.0	257.8	1,628.2
1973	326.1	48.9	562.1	61.3	422.8	1.8	90.9	217.0	1,730.9
1974	224.1	34.0	357.1	43.8	534.0	1.2	77.7	168.9	1,440.8

Table 1. Continued

Year	Chinook			Sockeye	Coho 2/	Chum 3/	Steelhead		Total
	Spring 1/	Summer	Fall				Winter 4/	Summer	
1975	176.1	44.4	525.9	58.2	437.7	0.8	62.0	105.4	1,410.5
1976	165.5	42.1	563.7	43.7	384.1	1.5	55.4	147.8	1,403.8
1977	239.6	41.4	449.3	99.8	199.0	0.8	112.1	238.5	1,380.5
1978	241.8	43.6	395.6	18.4	382.7	1.9	77.1	154.5	1,315.6
1979	126.2	34.5	356.2	52.6	330.7	0.3	114.1	146.3	1,160.9
1980	143.1	31.2	356.9	58.9	343.0	0.5	80.6	177.4	1,191.6
1981	164.6	27.1	349.1	56.0	208.0	1.5	67.0	217.7	1,091.0
1982	195.9	26.7	438.3	50.2	518.6	2.9	46.0	207.9	1,486.5
1983	159.9	23.7	298.9	100.5	143.4	0.6	67.7	240.2	1,034.9
1984	170.7	28.7	413.7	161.6	446.9	2.3	94.4	388.4	1,706.7
1985	179.0	30.3	548.0	200.4	435.3	1.3	77.3	405.3	1,876.9
1986	224.2	31.4	730.1	59.9	1,574.1	3.0	85.0	474.2	3,181.9
1987	241.8	38.3	956.8	145.3	388.7	2.5	91.7	364.3	2,229.4
1988	250.4	36.7	869.1	99.6	726.6	4.8	59.3	362.8	2,409.3
1989	231.9	33.1	592.5	47.4	752.4	2.0	68.0	327.8	2,055.1
1990	257.9	28.1	369.4	49.6	262.1	2.9	44.7	247.4	1,262.1
1991	201.7	22.1	332.4	76.5	957.1	1.3	63.2	311.0	1,965.3
1992	199.0	19.2	263.4	85.0	237.0	4.9	55.9	372.1	1,236.5
1993	206.2	23.6	235.7	80.2	118.2	4.5	36.4	242.8	947.6
1994	83.0	19.5	295.4	12.7	178.2	1.2	52.2	212.1	854.3
1995	64.9	17.1	300.1	9.2	88.9	1.5	20.1	247.1	748.9
1996	100.3	18.0	353.8	30.3	129.7	3.3	26.5	244.0	905.9
1997	161.2	29.9	352.8	46.9	154.5	1.7	15.3	292.4	1,054.7
1998	94.1	24.1	295.6	13.2	193.6	1.9	23.6	216.0	862.1
1999	112.1	30.3	338.1	17.9	305.0	2.4	(13.2)	(243.1)	1,062.1
2000	274.0	44.4	323.9	93.7	624.3	2.5	(19.1)	(316.2)	1,698.1

1/ Counting began at Bonneville Dam on May 7, 1938. Estimates for tributary runs below Bonneville Dam are not included for 1938-45.

2/ Commercial catch and dam counts only, 1938-59.

3/ Commercial catch numbers only, 1938-49.

4/ Abundance index.

() indicates estimate.

Table 2. Minimum Numbers (in Thousands) of Adult Salmon and Steelhead Entering the Columbia River, 1970-2000.

Year	Chinook			Sockeye	Coho	Chum	Steelhead		Total
	Spring	Summer	Fall				Winter 1/	Summer	
1970	237.8	55.2	452.0	95.4	895.3	1.2	134.5	157.0	2,028.4
1971	241.5	71.9	428.9	150.5	544.5	1.1	169.2	248.5	1,856.1
1972	334.7	67.8	285.5	123.3	277.8	2.4	113.0	257.8	1,462.3
1973	307.7	37.6	482.5	61.3	291.2	1.8	90.9	217.0	1,490.0
1974	206.9	28.9	290.5	43.8	460.9	1.2	77.7	168.9	1,278.8
1975	166.5	33.0	453.9	58.2	292.5	0.8	62.0	105.4	1,172.3
1976	144.7	26.7	448.7	43.7	337.0	1.5	55.4	147.8	1,205.5
1977	230.5	34.3	361.3	99.8	93.8	0.8	112.1	238.5	1,171.1
1978	233.7	38.7	328.4	18.4	307.5	1.9	77.1	154.5	1,160.2
1979	117.3	27.8	296.4	52.6	276.5	0.3	114.1	146.3	1,031.3
1980	126.1	27.0	321.2	58.9	301.6	0.5	80.6	177.4	1,093.3
1981	157.4	22.4	283.9	56.0	170.3	1.5	67.0	217.7	976.2
1982	181.4	20.1	360.7	50.2	453.1	2.9	46.0	207.9	1,322.3
1983	149.3	18.0	241.2	100.5	100.5	0.6	67.7	240.2	918.0
1984	163.1	22.4	305.5	161.6	414.2	2.3	94.4	388.4	1,551.9
1985	168.1	24.2	365.3	200.4	366.2	1.3	77.3	405.3	1,608.1
1986	210.8	26.2	498.7	59.9	1,527.8	3.0	85.0	474.2	2,885.6
1987	232.4	33.0	871.7	145.3	307.6	2.5	91.7	364.3	2,048.5
1988	243.0	31.3	783.0	99.6	664.8	4.8	59.3	362.8	2,248.6
1989	220.2	28.8	550.0	47.4	701.6	2.0	68.0	327.8	1,945.8
1990	250.8	25.0	317.6	49.6	196.1	2.9	44.7	247.4	1,134.1
1991	189.9	18.9	277.0	76.5	934.3	1.3	63.2	311.0	1,872.1
1992	191.8	15.1	217.9	85.0	210.9	4.9	55.9	372.1	1,153.6
1993	201.2	22.0	213.9	80.2	113.9	4.5	36.4	242.8	914.9
1994	81.5	17.6	255.3	12.7	168.9	1.2	52.2	212.1	801.5
1995	60.5	15.0	244.7	9.2	74.0	1.5	20.1	247.1	672.1
1996	93.9	16.0	331.8	30.3	113.7	3.3	26.5	244.0	859.5
1997	159.5	27.9	326.8	46.9	146.8	1.7	15.3	292.4	1,017.3
1998	91.4	21.4	255.8	13.2	168.9	1.9	23.6	216.0	792.2
1999	101.4	26.2	313.0	17.9	272.7	2.4	(13.2)	(243.1)	989.9
2000	250.8	30.6	254.3	93.7	551.4	2.5	(19.1)	(316.2)	1,518.6

1/ Abundance index.

() indicates estimate.

Table 3. Columbia River Commercial Landings (in Thousands of Pounds) of Salmon and Steelhead, 1866-2000. 1/

Year	Chinook	Coho	Sockeye	Chum	Steelhead	Total
1866	272.0	0.0	0.0	0.0	0.0	272.0
1867	1,224.0	0.0	0.0	0.0	0.0	1,224.0
1868	1,904.0	0.0	0.0	0.0	0.0	1,904.0
1869	6,800.0	0.0	0.0	0.0	0.0	6,800.0
1870	10,200.0	0.0	0.0	0.0	0.0	10,200.0
1871	13,600.0	0.0	0.0	0.0	0.0	13,600.0
1872	17,000.0	0.0	0.0	0.0	0.0	17,000.0
1873	17,000.0	0.0	0.0	0.0	0.0	17,000.0
1874	23,800.0	0.0	0.0	0.0	0.0	23,800.0
1875	25,500.0	0.0	0.0	0.0	0.0	25,500.0
1876	30,600.0	0.0	0.0	0.0	0.0	30,600.0
1877	25,840.0	0.0	0.0	0.0	0.0	25,840.0
1878	31,280.0	0.0	0.0	0.0	0.0	31,280.0
1879	32,640.0	0.0	0.0	0.0	0.0	32,640.0
1880	36,040.0	0.0	0.0	0.0	0.0	36,040.0
1881	37,400.0	0.0	0.0	0.0	0.0	37,400.0
1882	36,808.4	0.0	0.0	0.0	0.0	36,808.4
1883	42,799.2	0.0	0.0	0.0	0.0	42,799.2
1884	42,160.0	0.0	0.0	0.0	0.0	42,160.0
1885	37,658.4	0.0	0.0	0.0	0.0	37,658.4
1886	30,498.0	0.0	0.0	0.0	0.0	30,498.0
1887	24,208.0	0.0	0.0	0.0	0.0	24,208.0
1888	25,328.4	0.0	0.0	0.0	0.0	25,328.4
1889	18,135.4	0.0	1,210.2	0.0	1,726.6	21,072.2
1890	22,821.1	0.0	3,899.5	0.0	2,912.1	29,632.6
1891	24,065.7	0.0	1,052.8	0.0	2,010.4	27,128.8
1892	23,410.2	284.0	4,525.2	0.0	4,919.7	33,139.0
1893	19,636.6	1,979.3	2,071.2	157.1	4,435.4	28,279.6
1894	23,875.2	2,907.5	2,979.4	0.0	3,564.7	33,326.8
1895	30,253.8	6,772.9	1,225.0	1,529.5	3,378.1	43,159.3
1896	25,224.1	2,999.3	1,154.8	0.0	3,377.1	32,755.4
1897	29,867.2	4,137.8	882.1	0.0	3,137.9	38,025.0
1898	23,180.5	4,449.3	4,533.6	0.0	1,786.8	33,950.2
1899	18,771.0	2,013.3	1,629.9	773.8	815.6	24,003.6
1900	19,245.2	3,054.9	895.0	1,203.3	1,400.6	25,799.0
1901 2/	--	--	--	--	--	29,832.4
1902	23,033.7	716.2	1,158.5	707.3	584.3	26,200.0
1903	27,917.3	828.3	570.0	680.0	493.1	30,488.7
1904	31,782.5	2,125.3	877.9	1,407.1	671.0	36,863.9

Table 3. Continued

Year	Chinook 3/	Coho	Sockeye	Chum	Steelhead	Total 4/
1905	33,028.7	1,824.2	528.2	1,751.1	667.9	37,800.1
1906	29,970.7	2,818.3	531.5	1,890.5	442.0	35,653.1
1907	24,250.4	2,159.5	374.3	1,533.8	402.6	28,720.6
1908	19,742.5	2,137.4	583.5	1,148.1	729.4	24,340.9
1909	17,118.9	2,868.1	1,704.2	1,668.9	1,175.2	24,535.3
1910	25,325.6	4,686.7	423.9	4,524.6	369.6	35,330.4
1911	36,602.1	5,400.3	407.2	3,636.0	584.4	49,480.0
1912	21,388.0	2,165.3	558.3	1,271.5	2,147.2	27,530.2
1913	19,384.5	2,785.9	758.3	904.6	2,167.9	26,556.2
1914	25,409.1	4,744.3	2,401.1	3,351.4	1,907.6	38,501.3
1915	32,126.8	2,266.8	371.2	5,884.0	2,690.2	43,838.7
1916	31,992.9	3,541.7	257.7	5,288.1	1,580.9	42,746.3
1917	29,521.9	4,372.3	541.8	3,648.8	2,233.1	40,448.0
1918	29,249.1	6,673.9	2,572.6	2,029.5	3,022.6	44,125.4
1919	30,325.3	6,169.5	494.2	5,133.5	1,899.9	44,934.5
1920	31,094.3	1,837.6	178.0	1,277.9	1,165.9	36,311.5
1921	21,551.7	2,337.9	411.1	327.8	1,021.1	26,712.5
1922	17,914.7	6,149.7	2,090.5	601.4	2,162.8	30,152.7
1923	21,578.3	6,965.1	2,605.0	1,734.5	2,684.3	35,667.3
1924	22,365.2	7,796.4	500.9	3,926.9	3,192.8	38,167.1
1925	26,660.0	7,936.6	384.2	3,795.2	2,907.2	42,333.4
1926	21,241.0	6,605.7	1,478.0	2,234.0	3,843.1	35,566.7
1927	24,010.7	5,209.5	408.3	4,654.5	3,147.3	37,688.4
1928	18,149.3	3,722.9	327.4	8,496.8	2,160.2	33,127.1
1929	18,151.1	6,701.1	684.9	3,714.1	2,870.1	32,321.3
1930	20,078.6	7,736.9	668.0	773.2	2,404.1	31,923.4
1931	21,378.4	2,714.2	280.5	239.2	2,126.0	27,031.8
1932	16,000.9	4,096.5	190.1	1,173.7	1,431.8	23,330.2
1933	19,528.4	2,701.6	470.6	1,659.1	1,958.3	26,846.8
1934	18,787.5	4,774.7	467.1	1,662.9	1,919.2	27,901.9
1935	15,266.4	7,108.3	88.5	1,053.7	1,472.2	25,756.0
1936	16,213.6	2,495.8	668.9	2,080.6	1,940.8	23,528.6
1937	18,653.6	1,841.6	335.1	1,909.8	1,933.4	24,673.5
1938	12,418.5	2,311.0	424.6	1,915.4	1,764.4	18,833.9
1939	13,498.8	1,529.7	269.8	1,174.4	1,438.5	17,911.2

Table 3. Continued

Year	Chinook 3/	Coho	Sockeye	Chum	Steelhead	Total
1940	13,516.1	1,373.2	361.9	1,253.5	2,815.4	19,320.1
1941	23,238.5	1,045.0	505.7	4,149.8	2,663.7	31,602.7
1942	18,679.1	644.5	192.4	5,191.1	1,839.1	26,546.2
1943	11,426.5	706.3	146.1	959.9	1,514.5	14,753.3
1944	14,059.6	1,533.3	54.8	275.4	1,720.1	17,643.2
1945	12,972.1	1,835.5	8.7	588.8	1,963.5	17,368.6
1946	14,277.8	1,059.6	128.5	886.6	1,725.6	18,078.1
1947	17,302.7	1,498.1	718.3	496.2	1,648.7	21,664.0
1948	17,352.3	1,174.7	95.8	1,044.8	1,579.0	21,246.6
1949	10,768.5	899.2	24.0	545.0	814.0	13,050.7
1950	10,421.7	1,048.0	169.2	700.2	945.2	13,284.3
1951	10,036.3	968.0	169.4	532.3	1,207.2	12,913.2
1952	7,271.1	1,074.0	608.7	308.6	1,461.9	10,724.3
1953	6,966.6	457.5	146.2	249.2	1,898.3	9,717.8
1954	5,312.7	303.4	243.4	320.0	1,450.8	7,630.3
1955	8,581.9	598.8	200.4	125.6	1,320.0	10,826.7
1956	8,178.5	460.0	287.1	45.7	815.0	9,786.3
1957	5,918.9	390.7	240.2	32.1	741.0	7,322.9
1958	6,434.0	167.6	723.5	89.3	700.0	8,114.4
1959	4,594.3	119.7	635.8	42.9	628.5	6,021.2
1960	3,928.0	159.1	394.1	15.3	657.4	5,153.9
1961	4,160.2	382.6	158.0	17.3	612.3	5,330.4
1962	5,467.3	600.0	51.7	48.1	715.3	6,882.4
1963	4,346.1	501.1	48.8	15.3	972.9	5,884.2
1964	4,484.0	1,963.5	68.2	23.9	421.0	6,960.6
1965	6,142.9	1,901.8	22.9	6.1	510.1	8,583.8
1966	3,612.2	4,389.1	17.2	11.0	393.0	8,422.5
1967	4,974.1	3,817.9	195.1	9.7	445.6	9,442.4
1968	4,097.1	962.2	89.6	3.4	433.9	5,586.2
1969	5,775.9	1,663.3	104.5	4.0	495.0	8,042.7
1970	6,461.7	5,745.6	55.7	8.0	311.8	12,582.8
1971	5,967.2	2,277.9	285.6	5.9	467.5	9,004.1
1972	5,684.6	1,239.4	275.6	16.0	667.1	7,882.7
1973	8,552.4	1,904.8	15.9	18.0	634.1	11,125.2
1974	3,637.8	2,432.7	0.2	10.7	185.2	6,266.6

Table 3. Continued

Year	Chinook	Coho	Sockeye	Chum	Steelhead	Total
1975	6,586.5	1,581.4	0.0	5.7	69.5	8,243.1
1976	5,586.7	1,328.6	0.5	16.9	86.6	7,019.3
1977	4,688.4	316.6	0.5	2.3	425.7	5,433.5
1978	3,674.4	1,096.9	0.1	20.4	249.2	5,041.0
1979	3,226.3	1,096.8	<0.1	1.6	68.6	4,393.3
1980	3,072.3	1,122.5	<0.1	3.1	65.6	4,263.5
1981	1,739.4	473.2	<0.1	18.5	98.0	2,329.1
1982	3,036.1	1,600.2	0.5	22.3	96.5	4,755.6
1983	1,038.9	45.4	6.5	2.0	156.7	1,249.5
1984	2,069.0	1,621.3	110.5	22.1	908.4	4,731.3
1985	2,646.7	1,674.7	287.4	7.5	766.2	5,382.5
1986	4,729.0	6,820.1	23.8	20.2	683.8	12,276.9
1987	9,016.9	1,313.4	256.5	14.1	753.8	11,354.7
1988	10,539.1	2,683.5	181.1	30.2	764.8	14,198.7
1989	6,120.3	2,683.1	0.1	17.3	591.0	9,411.8
1990	3,095.3	501.2	<0.1	9.4	331.0	3,936.9
1991	1,994.5	2,730.3	<0.1	4.2	307.4	5,036.4
1992	952.3	303.8	<0.1	6.9	465.2	1,728.2
1993	877.8	271.4	<0.1	0.5	263.0	1,412.7
1994	604.6	505.0	0.0	0.5	110.2	1,220.3
1995	606.2	191.5	0.0	0.1	100.7	898.5
1996	1,011.8	230.9	0.0	0.3	91.9	1,334.9
1997	927.0	161.9	0.0	0.5	70.2	1,159.6
1998	663.7	195.8	0.0	0.1	41.5	901.1
1999	885.0	698.2	0.0	1.2	33.7	1,618.1
2000	1,088.0	1,585.0	1.6	0.4	85.5	2,760.5

1/ Sources: 1866-1936 - Craig and Hacker (1940), 1937 - Cleaver (1951), 1938-70 - FCO and WDF (1971), and 1971-present - ODFW and WDFW landing records. Since 1995 an increasing proportion of treaty Indian commercial landings have been sold to the general public and not licensed fish buyers. General public sales figures are not included here.

3/ Chinook totals for 1938-56 differ slightly from those calculated by summing individual landing tables in this report.

4/ From 1911-36, totals include landings of unknown salmonid species.

Table 4. Important Columbia River Fishery Management Events.

1855	Treaties signed between the United States and Columbia River Indian tribes reserving the right for Indians to hunt and fish in their usual and accustomed places in common with citizens of the United States.
1861	Commercial fishing became an important industry.
1866	Salmon canning began. Washington passed its first gear regulation.
1877	The first salmon hatchery was established on the Clackamas River. Washington established first closed fishing periods (Oregon followed in 1878).
1878	Oregon Fish Commission established. Oregon passed its first gear regulation.
1887	Oregon established a three-person State Board of Commissioners to enforce fish and game laws.
1890	Washington Department of Fisheries and Game established.
1893	State Game and Fish Protector position established in Oregon (beginning of combined fish and game administration in Oregon).
1895	Washington State Fish Commission created.
1897	Washington established closed season for sturgeon March 1- November 1 (Oregon followed in 1899).
1898	Oregon split fish and game programs and created a Board of Fish Commissioners comprised of governor, secretary of state, and fish commissioner. A Board of Game Commissioners followed in 1899.
1899	Beginning of joint Oregon and Washington fishery management (joint committees of the two legislatures met in an effort to agree on Columbia fishing regulations). Chinese sturgeon lines (snagging setlines) prohibited. Sturgeon minimum commercial size set at 48".
1901	Oregon established the Master Fish Warden position.
1903	Washington established a game code and county commissioners appointed game wardens.
1909	Sturgeon allowed to be taken at times and in areas open to commercial salmon fishing. Beginning of consistent Oregon and Washington seasons. Upper deadline established at mouth of Deschutes River.

Table 4. Continued

1911	Oregon's Fish and Game boards combined to form the Board of Fish and Game Commissioners comprised of three members appointed by the Governor.
1912	Troll salmon fishing began off the mouth of the Columbia.
1913	Position of Washington Chief Game Warden created.
1915	Washington regulation of game, game fish, and food fish combined under the authority of the State Game Warden. Oregon abolished Board of Fish and Game Commissioners and replaced with Fish and Game Commission, with the Governor chair of three member commission. Legislatures of Oregon and Washington created the Columbia River Fish Compact for joint regulation of Columbia River commercial fisheries.
1917	Purse seines prohibited in the Columbia River.
1918	U.S. Congress ratified the compact and agreement between Oregon and Washington covering concurrent jurisdiction of Columbia River fisheries.
1920	Oregon replaced the 1915 body with Board of Fish and Game Commissioners.
1921	Oregon established separate fish (3 members) and game (5 members) commissions with members to be appointed by the legislature and later by the Governor. Washington abolished the State Fish Commission and replaced it with a Department of Fisheries and Game. Oregon landings of salmon, shad, and sturgeon taxed.
1923	Whip seines prohibited in the Columbia River. Oregon fish dealers required to report purchases to the state in conjunction with the landings tax.
1927	Fish wheels prohibited in Oregon (followed by the Washington prohibition in 1935). Oregon prohibited seines and traps east of Cascade Locks and gill nets >250 fathoms throughout the river. Commercial fishing prohibited in Willamette River.
1932	Washington legislature separated food fish and game fish management and created the Department of Fisheries under an appointed director and the Department of Game under a six-person Commission.
1934	Commercial take or sale of steelhead in Washington prohibited.

Table 4. Continued

1935	Haul (drag) seines, traps, and set nets prohibited in Washington (followed by the Oregon prohibition in 1949--effective September 14, 1950). Fish wheels prohibited in Washington.
1937	Oregon and Washington fisheries officials permitted to change seasons (formerly only the fisheries committees of the Oregon and Washington legislatures could change seasons). Mitchell Act passed to provide mitigation funds to compensate for fish lost as a result of dam construction.
1938	Bonneville Dam completed. Commercial fishery prohibited 5 miles below the dam (Beacon Rock) and 15 miles above the dam.
1941	Grand Coulee Dam completed, blocking fish passage to much of the upper Columbia Basin.
1948	Staggered season for the area above Bonneville Dam (season opened and closed later than that in effect below the dam).
1949	Haul (drag) seines, traps, and set nets prohibited in Oregon (effective September 14, 1950).
1950	Sturgeon maximum size for all fisheries set at 72". Sturgeon minimum size first established for sport fisheries, set at 30".
1951	Oregon's Master Fish Warden position changed to State Fisheries Director.
1953	Special shad-only season first established (in the area of Camas and Washougal).
1957	Celilo Falls inundated by The Dalles Dam ending the tribal fishery that had occurred for millennia.
1964	Last Zones 1-5 summer commercial salmon season.
1965	Last Zone 6 summer commercial salmon season.
1967	Hells Canyon Dam completed, blocking fish passage to the upper Snake Basin.
1968	Commercial fishing reestablished by states above Bonneville Dam exclusively for treaty Indian fishers. Law suit <u>United States v. Oregon</u> filed. Governors of Oregon, Washington, and Idaho established the Columbia River Fisheries Advisory Council composed of the fish and game directors of the three states.

Table 4. Continued

1968	Zone 6 fishing area (Bridge of the Gods to mouth Umatilla River), river mouth closures, dam sanctuaries, and gear regulations established.
1973	Endangered Species Act enacted.
1975	Oregon's separate fish and wildlife commissions merged forming the Oregon Department of Fish and Wildlife with a seven member Oregon Fish and Wildlife Commission. Sale of steelhead in Oregon by non-Indians prohibited. Lower Granite Dam completed, last of 18 major main-stem Snake and Columbia dams finished 1933-75.
1977	Court approved a 5-year management and allocation agreement regarding upper Columbia fish runs. Four Columbia River treaty Indian tribes established Columbia River Inter-tribal Fish Commission. Last Zones 1-5 and 6 spring commercial salmon seasons.
1980	Congress passes the Northwest Electric Power Planning and Conservation Act.
1985	U.S.-Canada Pacific Salmon Interception Treaty signed.
1988	Court approves the <u>United States v. Oregon</u> Columbia River Fish Management Plan. Sturgeon setline fishing below Bonneville Dam phased out under Washington legislative statute. Last Zones 1-5 and 6 commercial sockeye seasons.
1991	Snake River sockeye salmon listed as an endangered species.
1992	Snake River wild chinook salmon listed as a threatened species.
1993	Washington legislature passed merger of Washington's Department of Fisheries and Department of Wildlife into the Washington Department of Fish and Wildlife.
1994	NMFS announced it was initiating comprehensive status reviews for populations of all seven anadromous Pacific salmonid species in Washington, Oregon, Idaho, and California.
1995	No Zones 1-5 winter commercial season for the first time in history.
1996	The Parties to <u>United States v. Oregon</u> entered into 3-year (1996-98) agreements for management of upper Columbia River spring chinook, summer chinook, and sockeye and management of upper Columbia River fall chinook.
1997	Upper Columbia River steelhead listed as an endangered species and Snake River and lower Columbia River wild steelhead listed as a threatened species. Oregon and Washington departments of fish and wildlife agreed on "The Olympia Accord on Columbia River Sturgeon Fishery Management."

Table 4. Continued

1998	Lower Columbia wild steelhead listed as a threatened species.
1999	Upper Columbia River wild spring chinook listed as an endangered species. Upper Willamette River wild spring chinook and lower Columbia River wild chinook listed as threatened species. Columbia River chum listed as a threatened species. Middle Columbia River and upper Willamette River wild steelhead listed as threatened species. Oregon lists lower Columbia River wild coho salmon as an endangered species under the State Endangered Species Act. Columbia River Fish Management Plan expired July 31.
2000	Oregon and Washington Departments of Fish and Wildlife extended the Joint State Sturgeon Management Agreement for an additional 3-year management period (2000-2002)

Table 5. Columbia River Commercial Landings (in Thousands of Fish) of Salmon and Steelhead, 1938-2000.

Year	Chinook	Coho	Sockeye	Chum	Steelhead	Total
1938	637.7	256.9	125.6	157.0	215.7	1,392.9
1939	690.8	170.0	81.0	96.3	175.8	1,213.9
1940	685.1	152.6	111.9	102.8	344.4	1,396.8
1941	1,180.0	116.8	150.0	340.1	325.6	2,112.5
1942	943.9	71.7	57.4	425.5	224.8	1,723.3
1943	583.7	78.5	42.9	78.7	185.1	968.9
1944	714.3	170.5	16.5	22.6	210.3	1,134.2
1945	657.0	204.0	2.7	48.3	240.0	1,152.0
1946	726.0	117.8	38.3	72.7	211.0	1,165.8
1947	877.7	166.9	211.4	40.7	201.6	1,498.3
1948	901.6	130.6	29.8	85.6	193.1	1,340.7
1949	558.7	99.9	7.7	44.7	99.8	810.8
1950	534.6	116.6	50.4	57.5	115.6	874.7
1951	475.0	107.6	46.3	43.6	150.2	822.7
1952	386.9	119.6	165.8	25.3	199.1	896.7
1953	345.1	51.6	41.0	20.4	233.7	691.8
1954	299.1	33.9	67.4	26.2	149.4	576.0
1955	505.7	68.9	59.7	10.3	166.3	810.9
1956	485.0	51.5	81.3	3.7	108.9	730.4
1957	339.1	46.3	65.1	2.7	96.8	550.0
1958	371.7	18.7	197.2	7.4	91.4	686.4
1959	267.8	15.2	185.0	3.5	103.5	575.0
1960	265.5	17.7	120.0	1.3	91.5	496.0
1961	253.6	37.7	40.7	1.4	99.9	433.3
1962	310.8	65.3	14.3	3.9	95.1	489.4
1963	251.1	65.2	14.0	1.2	114.4	445.9
1964	269.3	206.2	20.8	1.9	55.6	553.8
1965	335.5	234.7	5.9	0.5	64.3	640.9
1966	201.0	423.8	4.4	0.9	46.3	676.4
1967	262.6	382.4	55.7	0.9	50.2	751.8
1968	220.0	132.7	25.3	0.3	45.9	424.2
1969	317.9	197.9	27.5	0.3	48.9	592.5
1970	356.5	536.3	17.1	0.6	33.3	943.8
1971	331.5	277.4	76.2	0.5	51.4	737.0
1972	318.7	140.0	77.9	1.3	62.1	600.0
1973	453.6	194.8	3.7	1.4	52.9	706.4
1974	190.9	267.8	<0.1	0.9	19.3	478.9

Table 5. Continued

Year	Chinook	Coho	Sockeye	Chum	Steelhead	Total
1975	323.0	162.3	0.0	0.5	7.3	493.1
1976	288.4	172.4	0.1	1.2	9.6	471.7
1977	255.6	40.0	0.1	0.2	35.2	331.1
1978	189.1	136.4	<0.1	1.5	20.4	347.4
1979	171.0	131.5	<0.1	0.1	9.2	311.8
1980	150.3	150.4	<0.1	0.2	7.3	308.2
1981	95.1	61.6	<0.1	1.4	10.0	168.1
1982	155.3	206.0	0.1	1.8	9.4	372.6
1983	57.7	7.3	1.8	0.2	18.5	85.5
1984	127.9	203.1	31.6	1.8	75.1	439.5
1985	151.4	195.2	81.3	0.7	85.5	514.1
1986	283.1	997.8	6.1	1.8	72.0	1,360.8
1987	483.5	170.1	67.8	1.3	79.1	801.8
1988	489.0	368.2	48.5	2.5	78.5	986.7
1989	275.0	391.7	<0.1	1.4	60.9	729.0
1990	148.0	76.2	<0.1	0.8	32.6	257.6
1991	106.9	416.0	<0.1	0.4	37.0	560.3
1992	53.2	58.8	<0.1	0.7	51.9	164.7
1993	50.8	37.0	<0.1	<0.1	27.7	115.5
1994	33.5	64.8	0.0	<0.1	12.9	111.3
1995 ^{1/}	32.5	22.8	0.0	<0.1	12.7	68.0
1996	59.6	28.2	0.0	<0.1	9.5	97.3
1997	50.7	20.7	0.0	<0.1	9.2	80.6
1998	37.9	24.0	0.0	<0.1	5.3	67.2
1999	53.8	82.2	0.0	0.1	4.5	140.6
2000	59.0	178.3	0.5	<0.1	8.9	246.7

1/ Since 1995 an increasing proportion of treaty Indian commercial landings have been sold to the general public and not licensed fish buyers. General public sales figures are not included here.

Table 6. Commercial Fishing Zones and Areas on the Columbia River.

Area	Description
Zone 1	Easterly of a line projected from the knuckle of the south jetty on the Oregon bank to the inshore end of the north jetty on the Washington Bank, and westerly of a line projected from a beacon light at Grays Point on the Washington bank to the flashing 4-second red buoy "44" off the easterly tip of Tongue Point on the Oregon bank.
Zone 2	Easterly of a line projected from a beacon light at Grays Point on the Washington bank to the flashing 4-second red buoy "44" off the easterly tip of Tongue Point on the Oregon bank, and westerly of a line projected from the 4-second flashing green light "81" on the Washington bank to a boundary marker on the easterly end of the Beaver Terminal Pier in Oregon, including all waters of Grays Bay, those waters of Deep River downstream of the Highway 4 bridge, all waters of Seal Slough, those waters of Grays River downstream of a line projected between fishing boundary markers on both banks at the Leo Reisticka farm, and those waters of Elokomin Slough and Elokomin River downstream of the Highway 4 bridge.
Zone 3	Easterly of a line projected from the 4-second flashing green light "81" on the Washington bank to a boundary marker on the easterly end of the Beaver Terminal Pier in Oregon, and westerly of a line projected true west from the east or upstream bank of the Lewis River mouth in Washington.
Zone 4	Easterly of a line projected true west from the east or upstream bank of the Lewis River in Washington, and westerly of a line projected true north from Rooster Rock on the Oregon bank, and those waters of Camas Slough downstream of the westernmost powerline crossing at the Crown Zellerbach Mill.
Zone 5	Easterly of a line projected true north from Rooster Rock on the Oregon bank, and westerly of a line projected from a deadline marker on the Oregon bank to a deadline marker on the Washington bank, both such deadline markers located approximately 5 miles downstream from Bonneville Dam.
Area 2S	From a downstream boundary of a true north/south line through flashing red 4-second light "50" near the Oregon bank to an upstream boundary of a straight line from a deadline marker on the Oregon bank to a deadline marker on the Washington bank, both such deadline markers located approximately 5 miles downstream from Bonneville Dam.
Washougal Reef Shad Area	Area lying within a line commencing at the green 6-second equal-interval light approximately 3/4 mile east of the Washougal Woolen Mill pipeline and projected westerly to the Washougal blinker light (Light "50"); thence continuing westerly to the green 4-second blinker light on the east end of Lady Island to the State highway 14 Bridge; thence easterly across State Highway 14 bridge to the mainland.

Table 6 Continued.

Area	Description
Zone 7 (Youngs Bay Select Area)	Waters of Youngs Bay from the new Highway 101 bridge upstream to the upper boundary markers at the mouth of Battle Creek Slough; except for those waters that are closed southerly of the alternate Highway 101 bridge (Lewis and Clark River).
Big Creek Select Area	Calendar and Big creek sloughs east from boundary markers at the west end of Minaker Island, upstream to a deadline marker on Karlson Island to a marker on the north bank at the mouth of Blind Slough across to a marker on the south bank.
Zone 71 (Tongue Point Select Area)	In those waters of the Columbia River Tongue Point basin bounded by a line from the red light "2" at Tongue Point to the flashing green light "3" at a rock jetty on the northwesterly tip of Mott Island, a line from a marker at the south end of Mott Island easterly to a marker on the northwest bank of Lois Island, and a line from a marker on the southwest end of Lois Island due westerly to a marker on the opposite bank.
Zone 71 (South Channel Select Area)	In those waters bounded by a line from a marker on John Day Point through the green buoy "7" thence to a marker on the southwest end of Lois Island upstream to an upper boundary line from a marker on Settler point northwesterly to flashing red marker "10".
Zone 74 (Blind Slough Select Area)	In those waters adjoining the Columbia River that extend from markers at the mouth of Blind Slough upstream to markers at the mouth of Gnat Creek which is located approximately 1/2 mile upstream of the county road bridge.
Zone 74 (Knappa Slough Select Area)	In those waters bounded by a line from the northerly most marker at the mouth of Blind Slough westerly to a marker on Karlson Island downstream to a north-south line defined by a marker on the eastern end of Minaker island to markers on Karlson Island and the Oregon shore.
Zone 80 (Deep River Select Area)	From the town of Deep River, Washington, downstream to markers at the mouth of Deep River (from a marker at Miller Point westerly to a marker on the opposite bank).
Zone 81 (Steamboat Slough Select Area)	In those waters bounded by markers on Price Island and the Washington shore at both ends of Steamboat Slough.
Zone 6 (Treaty Indian Fishing Area)	Three pool area between Bonneville and McNary dams.

Table 7 Non-Indian Commercial Fishing Seasons, 2000.

Main-Stem Salmon and Sturgeon Seasons					
Days	Season	Dates	Special Regulations		
			Gear	Area/Other	
1 1/4	Winter	Jan 10, noon - Jan 11, 6 PM	9" min. and 9-3/4" max. mesh size restrictions. Zones 1-5. Grays Bay, Elokomin (A), Cowlitz R., Kalama (A), Lewis (A), Washougal R., Sandy R., Abernathy Cr., and Gnat Cr. sanctuaries in place. Salmon and sturgeon.		
1 1/4		Jan 13, noon - Jan 14, 6 PM	Same.		
1 1/4		Jan 17, noon - Jan 18, 6 PM	Same.		
1 1/4		Jan 20, noon - Jan 21, 6 PM	Same.		
1 1/4		Jan 24, noon - Jan 25, 6 PM	Same.		
1 1/4		Jan 27, noon - Jan 28, 6 PM	Same.		
1 1/4		Jan 31, noon - Feb 1, 6 PM	Same.		
1 1/4		Feb 3, noon - Feb 4, 6 PM	Same.		
1 1/4		Feb 7, noon - Feb 8, 6 PM	Same.		
1 1/4		Feb 10, noon - Feb 11, 6 PM	Same.		
1 1/4		Feb 13, noon - Feb 14, 6 PM	8" min. and 9-3/4" max. mesh size restrictions <u>below</u> Kelley Pt. 9" min. and 9-3/4" max. mesh size restrictions <u>above</u> Kelley Pt. Zones 1-5. Grays Bay, Elokomin (A), Cowlitz R., Kalama (A), Lewis (A), Washougal R., Sandy R., and Gnat Cr. sanctuaries in place. Salmon and sturgeon.		
1 1/4		Feb 15, noon - Feb 16, 6 PM	Same.		
1 1/4		Feb 17, noon - Feb 18, 6 PM	Same.		
2		Feb 20, 6 PM - Feb 22, 6 PM	Same.		
1		Feb 24, noon - Feb 25, noon	Same.		
2		Feb 27, 6 PM - Feb 29, 6 PM	Same.		
--		Spring	No Season		
12 hrs		Sockeye	Jun 28, 6 PM - Jun 29, 6 AM	4-1/2" max. mesh size restriction. Single wall unslackened floater gillnet. Area 2S. Non-adipose fin-clipped sockeye, chinook jacks, shad, and sturgeon.	
12 hrs			Jun 29, 6 PM - Jun 30, 6 AM	Same.	
12 hrs	Jun 30, 6 PM - Jul 1, 6 AM		Same.		
12 hrs	August	Aug 3, 7 PM - Aug 4, 7 AM	9" min. and 9-3/4" max. mesh size restrictions. Zones 1-3 up to the Longview Bridge. Grays Bay, Elokomin (A), Big Cr., and Gnat Cr. sanctuaries in place. Salmon and sturgeon.		

Table 7 Continued.

Main-Stem Salmon and Sturgeon Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
10 hrs	Fall - Extended Area 2S	Aug 21, 8 PM - Aug 22, 6 AM	9" min. and 9-3/4" max. mesh size restrictions.	Area 2S with lower boundary extended to I-205 Bridge. Extended Washougal R. (including Sandy R.) sanctuary in place. Salmon and sturgeon.
10 hrs		Aug 22, 8 PM - Aug 23, 6 AM	Same.	Same.
12 hrs	Late Fall	Sep 18, 7 AM - 7 PM	Unslackened floater gillnet with 6" max. mesh size restriction.	Zones 1-3 up to the Longview Bridge. Grays Bay, Elokomin (A), and Abernathy Cr. sanctuaries in place. Salmon and sturgeon.
12 hrs		Sep 19, 7 AM - 7 PM	Same.	Same.
10 hrs	Late Fall - Extended Area 2S	Sep 19, 8 PM - Sep 20, 6 AM	8" min. and 9-3/4" max. mesh size restrictions.	Area 2S with lower boundary extended to Warrior Rock (all of Zones 4 and 5). Washougal R. and Sandy R. sanctuaries in place. Salmon and sturgeon.
12 hrs	Late Fall	Sep 20, 7 AM - 7 PM	Unslackened floater gillnet with 6" max. mesh size restriction.	Zones 1-3 up to the Longview Bridge. Grays Bay, Elokomin (A), and Abernathy Cr. sanctuaries in place. Salmon and sturgeon.
12 hrs		Sep 25, 7 AM - 7 PM	Same.	Same.
12 hrs		Sep 26, 7 AM - 7 PM	Same.	Same.
12 hrs		Sep 28, 7 AM - 7 PM	Same.	Same.
12 hrs		Oct 5, 7 AM - 7 PM	Same. Single strand monofilament nets may be used.	Same.
12 hrs		Oct 9, 7 AM - 7 PM	Unslackened floater gillnet with 6" max. mesh size restriction or 9" min. and 9-3/4" max. mesh size restrictions.	Zones 1-5, except closed from Longview Bridge upstream to a line projected from Warrior Rock to Red Buoy No. 4 thence to a fishing boundary marker on Bachelor Island. Grays Bay, Elokomin (A), Washougal R., Sandy R., and Abernathy Cr. sanctuaries in place. Salmon and sturgeon.
3		Oct 10, noon - Oct 13, noon	Unslackened floater gillnet with 6" max. mesh size restriction.	Same.
12 hrs		Oct 16, 7 AM - 7 PM	Unslackened floater gillnet with 6" max. mesh size restriction or 9" min. and 9-3/4" max. mesh size restrictions.	Same.
3		Oct 17, noon - Oct 20, noon	Unslackened floater gillnet with 6" max. mesh size restriction.	Same.
12 hrs		Oct 23, 7 AM - 7 PM	Unslackened floater gillnet with 6" max. mesh size restriction or 9" min. and 9-3/4" max. mesh size restrictions.	Zones 1-5, except closed from Green Nav. Light 41 at upper end of Cottonwood Island at a right angle to the thread of the Columbia River to the Oregon shore upstream to a line projected from Warrior Rock to Red Buoy No. 4 thence to a fishing boundary marker on Bachelor Island. Grays Bay, Elokomin (A), Cowlitz R., Washougal R., Sandy R., and Abernathy Cr. sanctuaries in place. Salmon and sturgeon.

Table 7 Continued.

Main-Stem Salmon and Sturgeon Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
3 1/2	Late Fall (cont.)	Oct 24, 7 AM - Oct 27, 7 PM	Unslackened floater gillnet with 6" max. mesh size restriction.	From a line extending from Harrington Point in Washington to Settler Point in Oregon upstream to Beacon Rock, except closed from Green Nav. Light 41 at upper end of Cottonwood Island at a right angle to the thread of the Columbia River to the Oregon shore upstream to a line projected from Warrior Rock to Red Buoy No. 4 thence to a fishing boundary marker on Bachelor Island. Elokomina (A), Cowlitz R., Washougal R., Sandy R., and Abernathy Cr. sanctuaries in place. Salmon and sturgeon.
12 hrs		Oct 30, 7 AM - 7 PM	Same.	Same.
6 hrs		Nov 1, 10 AM - 4 PM	9" min. and 9-3/4" max. mesh size restrictions.	Zones 1-5. Grays Bay, Elokomina (A), Cowlitz R., Kalama (A), Lewis (B), Washougal R., Sandy R., Big Cr., Gnat Cr., and Abernathy Cr. sanctuaries in place. Salmon and sturgeon.

Select Area Seasons					
Days	Season	Dates	Special Regulations		
			Gear	Area/Other	
1 1/4	Youngs Bay - Winter	Feb 23, noon - Feb 24, 6 PM	8" min. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. Monofilament gill-net webbing may be used.	Youngs Bay select fishing area (Oregon only), upper deadline at confluence of Youngs and Klaskanine rivers. May sell fish outside of bay during closed main-stem season through proper notification procedures. Salmon, sturgeon, and shad.	
1 1/4		Mar 1, noon - Mar 2, 6 PM	Same.	Same.	
1 1/4		Mar 8, noon - Mar 9, 6 PM	Same.	Same.	
1 1/4		Youngs Bay - Spring	Apr 19, noon - Apr 20, 6 PM	8" max. mesh size restriction. Same. Same. Same.	Same.
1 1/4			Apr 26, noon - Apr 27, 6 PM	Same.	Same.
2 1/4			May 1, noon - May 3, 6 PM	Same.	Same.
3 1/4			May 8, noon - May 11, 6 PM	Same.	Same.
4 1/4			May 15, noon - May 19, 6 PM	Same.	Same.
4 1/4			May 22, noon - May 26, 6 PM	Same.	Same.
4 1/4			May 29, noon - Jun 2, 6 PM	Same.	Same.
4 1/4	Jun 5, noon - Jun 9, 6 PM	Same.	Same.		

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
3 1/4	Youngs Bay - Summer	Jun 12, noon - Jun 15, 6 PM	8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. Monofilament gill-net webbing may be used.	Youngs Bay select fishing area (Oregon only), upper deadline at confluence of Youngs and Klaskanine rivers. May sell fish outside of bay during closed main-stem season through proper notification procedures. Salmon, sturgeon, and shad.
2 1/4		Jun 19, noon - Jun 21, 6 PM	Same.	Same.
2 1/4		Jun 26, noon - Jun 28, 6 PM	Same.	Same.
1 1/4		Jul 4, noon - Jul 5, 6 PM	Same.	Same.
1 1/4		Jul 11, noon - Jul 12, 6 PM	Same.	Same.
1 1/4		Jul 18, noon - Jul 19, 6 PM	Same.	Same.
1 1/4		Jul 25, noon - Jul 26, 6 PM	Same.	Same.
1 1/4	Youngs Bay - Fall	Aug 1, noon - Aug 2, 6 PM	8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. Monofilament gill-net webbing may be used.	Youngs Bay select fishing area (Oregon only), upper deadline at Battle Creek Slough. Permanent transportation rules in effect. Salmon and sturgeon.
1 1/4		Aug 8, noon - Aug 9, 6 PM	Same.	Same.
1 1/4		Aug 15, noon - Aug 16, 6 PM	Same.	Same.
1 1/4		Aug 22, noon - Aug 23, 6 PM	Same.	Same.
1 1/4		Aug 29, noon - Aug 30, 6 PM	Same.	Same.
56 1/4		Sep 5, noon - Oct 31, 6 PM	Same.	Same.
12 hrs	Tongue Point - Winter	Feb 29, 7 AM - 7 PM	8" min. and 9-3/4" max. mesh size restrictions. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom.	Tongue Point Basin select fishing area (concurrent waters). May sell fish outside area during closed main-stem season with a permit. Salmon, sturgeon, and shad.
12 hrs		Mar 7, 7 AM - 7 PM	Same.	Same.
12 hrs		Mar 14, 7 AM - 7 PM	Same.	Same.
10 hrs	Tongue Point / South Channel - Spring	Apr 24, 7 PM - Apr 25, 5 AM	Tongue Pt. - 8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. South Channel - 8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Tongue Point Basin/South Channel select fishing area (concurrent waters). May sell fish outside area during closed main-stem season with a permit. Fishers in Tongue Point area may have stored onboard, gillnets with a leadline in excess of 2 lbs. per fathom. Salmon, sturgeon, and shad.
10 hrs		May 1, 7 PM - May 2, 5 AM	Same.	Same.

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
10 hrs	Tongue Point / South Channel - Spring (cont.)	May 3, 7 PM - May 4, 5 AM	Tongue Pt. - 8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. South Channel - 8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Tongue Point Basin/South Channel select fishing area (concurrent waters). May sell fish outside area during closed main-stem season with a permit. Fishers in Tongue Point area may have stored onboard, gillnets with a leadline in excess of 2 lbs. per fathom. Salmon, sturgeon, and shad.
10 hrs		May 8, 7 PM - May 9, 5 AM	Same.	Same.
10 hrs		May 10, 7 PM - May 11, 5 AM	Same.	Same.
10 hrs		May 15, 7 PM - May 16, 5 AM	Same.	Same.
10 hrs		May 17, 7 PM - May 18, 5 AM	Same.	Same.
10 hrs		May 22, 7 PM - May 23, 5 AM	Same.	Same.
10 hrs		May 24, 7 PM - May 25, 5 AM	Same.	Same.
10 hrs		May 29, 7 PM - May 30, 5 AM	Same.	Same.
10 hrs		May 31, 7 PM - Jun 1, 5 AM	Same.	Same.
10 hrs		Jun 5, 7 PM - Jun 6, 5 AM	Same.	Same.
10 hrs		Jun 7, 7 PM - Jun 8, 5 AM	Same.	Same.
10 hrs		Jun 12, 7 PM - Jun 13, 5 AM	Same.	Same.
10 hrs		Jun 14, 7 PM - Jun 15, 5 AM	Same.	Same.
12 hrs		Tongue Point - Fall	Sep 5, 7 PM - Sep 6, 7 AM	8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom.
12 hrs	Sep 6, 7 PM - Sep 7, 7 AM		Same.	Same.
12 hrs	Sep 10, 7 PM - Sep 11, 7 AM		Same.	Same.
12 hrs	Sep 11, 7 PM - Sep 12, 7 AM		Same.	Same.
12 hrs	Sep 13, 7 PM - Sep 14, 7 AM		Same.	Same.
12 hrs	Sep 14, 7 PM - Sep 15, 7 AM		Same.	Same.

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
12 hrs	Tongue Point / South Channel - Fall	Sep 17, 7 PM - Sep 18, 7 AM	Tongue Pt. - 8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. South Channel - 8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Tongue Point Basin/South Channel select fishing area (concurrent waters). Fishers in Tongue Point area may have stored onboard, gillnets with a leadline in excess of 2 lbs. per fathom. Permanent transportation rules in effect. Salmon and sturgeon.
12 hrs		Sep 18, 7 PM - Sep 19, 7 AM	Same.	Same.
12 hrs		Sep 20, 7 PM - Sep 21, 7 AM	Same.	Same.
12 hrs		Sep 21, 7 PM - Sep 22, 7 AM	Same.	Same.
12 hrs		Sep 24, 7 PM - Sep 25, 7 AM	Same.	Same.
12 hrs		Sep 25, 7 PM - Sep 26, 7 AM	Same.	Same.
12 hrs		Sep 27, 7 PM - Sep 28, 7 AM	Same.	Same.
12 hrs		Sep 28, 7 PM - Sep 29, 7 AM	Same.	Same.
14 hrs		Oct 1, 6 PM - Oct 2, 8 AM	Same.	Same.
14 hrs		Oct 2, 6 PM - Oct 3, 8 AM	Same.	Same.
14 hrs		Oct 4, 6 PM - Oct 5, 8 AM	Same.	Same.
14 hrs		Oct 5, 6 PM - Oct 6, 8 AM	Same.	Same.
14 hrs		Oct 8, 6 PM - Oct 9, 8 AM	Same.	Same.
14 hrs		Oct 9, 6 PM - Oct 10, 8 AM	Same.	Same.
14 hrs		Oct 11, 6 PM - Oct 12, 8 AM	Same.	Same.
14 hrs		Oct 12, 6 PM - Oct 13, 8 AM	Same.	Same.
14 hrs		Oct 15, 6 PM - Oct 16, 8 AM	Same.	Same.
14 hrs		Oct 16, 6 PM - Oct 17, 8 AM	Same.	Same.
14 hrs		Oct 18, 6 PM - Oct 19, 8 AM	Same.	Same.
14 hrs		Oct 19, 6 PM - Oct 20, 8 AM	Same.	Same.
14 hrs		Oct 22, 6 PM - Oct 23, 8 AM	Same.	Same.
14 hrs		Oct 23, 6 PM - Oct 24, 8 AM	Same.	Same.

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
14 hrs	Tongue Point / South Channel - Fall (cont.)	Oct 25, 6 PM - Oct 26, 8 AM	Tongue Pt. - 8" max. mesh size restriction. Nets may not exceed 250 fathoms in length. Leadline not to exceed 2 lbs. per fathom. South Channel - 8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Tongue Point Basin/South Channel select fishing area (concurrent waters). Fishers in Tongue Point area may have stored onboard, gillnets with a leadline in excess of 2 lbs. per fathom. Permanent transportation rules in effect. Salmon and sturgeon.
14 hrs		Oct 26, 6 PM - Oct 27, 8 AM	Same.	Same.
14 hrs		Oct 29, 6 PM - Oct 30, 8 AM	Same.	Same.
14 hrs		Oct 30, 6 PM - Oct 31, 8 AM	Same.	Same.
12 hrs	Blind Slough - Winter	Feb 27, 7 PM - Feb 28, 7 AM	8" min. and 9-3/4" max. mesh size restrictions. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Blind Slough select fishing area (concurrent waters up to railroad bridge, Oregon only above). May sell fish outside area during closed main-stem season with a permit. Salmon, sturgeon, and shad.
12 hrs		Mar 5, 7 PM - Mar 6, 7 AM	Same.	Same.
12 hrs		Mar 12, 7 PM - Mar 13, 7 AM	Same.	Same.
12 hrs	Blind Slough / Knappa Slough - Spring	Apr 23, 7 PM - Apr 24, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Blind Slough/Knappa Slough select fishing area (concurrent waters up to railroad bridge, Oregon only above). May sell fish outside area during closed main-stem season with a permit. Salmon, sturgeon, and shad.
12 hrs		Apr 30, 7 PM - May 1, 7 AM	Same.	Same.
12 hrs		May 2, 7 PM - May 3, 7 AM	Same.	Same.
12 hrs		May 7, 7 PM - May 8, 7 AM	Same.	Same.
12 hrs		May 9, 7 PM - May 10, 7 AM	Same.	Same.
12 hrs		May 14, 7 PM - May 15, 7 AM	Same.	Same.
12 hrs		May 16, 7 PM - May 17, 7 AM	Same.	Same.
12 hrs		May 21, 7 PM - May 22, 7 AM	Same.	Same.
12 hrs		May 23, 7 PM - May 24, 7 AM	Same.	Same.
12 hrs		May 28, 7 PM - May 29, 7 AM	Same.	Same.
12 hrs		May 30, 7 PM - May 31, 7 AM	Same.	Same.

Table 7 Continued.

Select Area Seasons (continued)					
Days	Season	Dates	Special Regulations		
			Gear	Area/Other	
12 hrs	Blind Slough / Knappa Slough - Spring (cont.)	Jun 4, 7 PM - Jun 5, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Blind Slough/Knappa Slough select fishing area (concurrent waters up to railroad bridge, Oregon only above). May sell fish outside area during closed main-stem season with a permit. Salmon, sturgeon, and shad.	
12 hrs		Jun 6, 7 PM - Jun 7, 7 AM	Same.	Same.	
12 hrs		Jun 11, 7 PM - Jun 12, 7 AM	Same.	Same.	
12 hrs		Jun 13, 7 PM - Jun 14, 7 AM	Same.	Same.	
12 hrs	Blind Slough - Fall	Sep 7, 7 PM - Sep 8, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Blind Slough select fishing area (concurrent waters up to railroad bridge, Oregon only above). Permanent transportation rules in effect. Salmon and sturgeon.	
12 hrs		Sep 8, 7 PM - Sep 9, 7 AM	Same.	Same.	
12 hrs		Sep 11, 7 PM - Sep 12, 7 AM	Same.	Same.	
12 hrs		Sep 12, 7 PM - Sep 13, 7 AM	Same.	Same.	
12 hrs		Sep 14, 7 PM - Sep 15, 7 AM	Same.	Same.	
12 hrs		Sep 15, 7 PM - Sep 16, 7 AM	Same.	Same.	
12 hrs		Blind Slough / Knappa Slough - Fall	Sep 18, 7 PM - Sep 19, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Blind Slough/Knappa Slough select fishing area (concurrent waters up to railroad bridge, Oregon only above). Permanent transportation rules in effect. Salmon and sturgeon.
12 hrs			Sep 19, 7 PM - Sep 20, 7 AM	Same.	Same.
12 hrs			Sep 21, 7 PM - Sep 22, 7 AM	Same.	Same.
12 hrs			Sep 22, 7 PM - Sep 23, 7 AM	Same.	Same.
12 hrs			Sep 25, 7 PM - Sep 26, 7 AM	Same.	Same.
12 hrs		Sep 26, 7 PM - Sep 27, 7 AM	Same.	Same.	
12 hrs		Sep 28, 7 PM - Sep 29, 7 AM	Same.	Same.	
12 hrs		Sep 29, 7 PM - Sep 30, 7 AM	Same.	Same.	
14 hrs		Oct 1, 6 PM - Oct 2, 8 AM	Same.	Same.	
14 hrs		Oct 2, 6 PM - Oct 3, 8 AM	Same.	Same.	
14 hrs		Oct 3, 6 PM - Oct 4, 8 AM	Same.	Same.	

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
14 hrs	Blind Slough / Knappa Slough - Fall (cont.)	Oct 5, 6 PM - Oct 6, 8 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Blind Slough/Knappa Slough select fishing area (concurrent waters up to railroad bridge, Oregon only above). Permanent transportation rules in effect. Salmon and sturgeon.
14 hrs		Oct 8, 6 PM - Oct 9, 8 AM	Same.	Same.
14 hrs		Oct 9, 6 PM - Oct 10, 8 AM	Same.	Same.
14 hrs		Oct 10, 6 PM - Oct 11, 8 AM	Same.	Same.
14 hrs		Oct 12, 6 PM - Oct 13, 8 AM	Same.	Same.
14 hrs		Oct 15, 6 PM - Oct 16, 8 AM	Same.	Same.
14 hrs		Oct 16, 6 PM - Oct 17, 8 AM	Same.	Same.
14 hrs		Oct 17, 6 PM - Oct 18, 8 AM	Same.	Same.
14 hrs		Oct 19, 6 PM - Oct 20, 8 AM	Same.	Same.
14 hrs		Oct 22, 6 PM - Oct 23, 8 AM	Same.	Same.
14 hrs		Oct 23, 6 PM - Oct 24, 8 AM	Same.	Same.
14 hrs		Oct 24, 6 PM - Oct 25, 8 AM	Same.	Same.
14 hrs		Oct 26, 6 PM - Oct 27, 8 AM	Same.	Same.
14 hrs		Oct 29, 6 PM - Oct 30, 8 AM	Same.	Same.
14 hrs		Oct 30, 6 PM - Oct 31, 8 AM	Same.	Same.
12 hrs	Deep River - Fall	Sep 5, 7 PM - Sep 6, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Deep River select fishing area (concurrent waters up to Highway 4 Bridge, Washington only above). Permanent transportation rules in effect. Salmon and sturgeon.
12 hrs		Sep 6, 7 PM - Sep 7, 7 AM	Same.	Same.
12 hrs		Sep 10, 7 PM - Sep 11, 7 AM	Same.	Same.
12 hrs		Sep 11, 7 PM - Sep 12, 7 AM	Same.	Same.
12 hrs		Sep 12, 7 PM - Sep 13, 7 AM	Same.	Same.
12 hrs		Sep 13, 7 PM - Sep 14, 7 AM	Same.	Same.
12 hrs		Sep 17, 7 PM - Sep 18, 7 AM	Same.	Same.

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
12 hrs	Deep River - Fall (cont.)	Sep 18, 7 PM - Sep 19, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Deep River select fishing area (concurrent waters up to Highway 4 Bridge, Washington only above). Permanent transportation rules in effect. Salmon and sturgeon.
12 hrs		Sep 19, 7 PM - Sep 20, 7 AM	Same.	Same.
12 hrs		Sep 20, 7 PM - Sep 21, 7 AM	Same.	Same.
12 hrs		Sep 24, 7 PM - Sep 25, 7 AM	Same.	Same.
12 hrs		Sep 25, 7 PM - Sep 26, 7 AM	Same.	Same.
12 hrs		Sep 26, 7 PM - Sep 27, 7 AM	Same.	Same.
12 hrs		Sep 27, 7 PM - Sep 28, 7 AM	Same.	Same.
14 hrs		Oct 1, 6 PM - Oct 2, 8 AM	Same.	Same.
14 hrs		Oct 2, 6 PM - Oct 3, 8 AM	Same.	Same.
14 hrs		Oct 3, 6 PM - Oct 4, 8 AM	Same.	Same.
14 hrs		Oct 4, 6 PM - Oct 5, 8 AM	Same.	Same.
14 hrs		Oct 8, 6 PM - Oct 9, 8 AM	Same.	Same.
14 hrs		Oct 9, 6 PM - Oct 10, 8 AM	Same.	Same.
14 hrs		Oct 10, 6 PM - Oct 11, 8 AM	Same.	Same.
14 hrs		Oct 11, 6 PM - Oct 12, 8 AM	Same.	Same.
14 hrs		Oct 15, 6 PM - Oct 16, 8 AM	Same.	Same.
14 hrs		Oct 16, 6 PM - Oct 17, 8 AM	Same.	Same.
14 hrs		Oct 17, 6 PM - Oct 18, 8 AM	Same.	Same.
14 hrs		Oct 18, 6 PM - Oct 19, 8 AM	Same.	Same.
14 hrs		Oct 22, 6 PM - Oct 23, 8 AM	Same.	Same.
14 hrs	Oct 23, 6 PM - Oct 24, 8 AM	Same.	Same.	
14 hrs	Oct 24, 6 PM - Oct 25, 8 AM	Same.	Same.	
14 hrs	Oct 25, 6 PM - Oct 26, 8 AM	Same.	Same.	

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
14 hrs	Deep River - Fall (cont.)	Oct 29, 6 PM - Oct 30, 8 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Deep River select fishing area (concurrent waters up to Highway 4 Bridge, Washington only above). Permanent transportation rules in effect. Salmon and sturgeon.
14 hrs		Oct 30, 6 PM - Oct 31, 8 AM	Same.	Same.
12 hrs	Steamboat Slough - Fall	Sep 7, 7 PM - Sep 8, 7 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Steamboat Slough select fishing area (concurrent waters). Fishers may transport their catch outside of fishing area with a permit issued by an authorized agency employee after examining the catch. Salmon and sturgeon.
12 hrs		Sep 8, 7 PM - Sep 9, 7 AM	Same.	Same.
12 hrs		Sep 12, 7 PM - Sep 13, 7 AM	Same.	Same.
12 hrs		Sep 13, 7 PM - Sep 14, 7 AM	Same.	Same.
12 hrs		Sep 14, 7 PM - Sep 15, 7 AM	Same.	Same.
12 hrs		Sep 15, 7 PM - Sep 16, 7 AM	Same.	Same.
12 hrs		Sep 19, 7 PM - Sep 20, 7 AM	Same.	Same.
12 hrs		Sep 20, 7 PM - Sep 21, 7 AM	Same.	Same.
12 hrs		Sep 21, 7 PM - Sep 22, 7 AM	Same.	Same.
12 hrs		Sep 22, 7 PM - Sep 23, 7 AM	Same.	Same.
12 hrs		Sep 26, 7 PM - Sep 27, 7 AM	Same.	Same.
12 hrs		Sep 27, 7 PM - Sep 28, 7 AM	Same.	Same.
12 hrs		Sep 28, 7 PM - Sep 29, 7 AM	Same.	Same.
12 hrs		Sep 29, 7 PM - Sep 30, 7 AM	Same.	Same.
14 hrs		Oct 3, 6 PM - Oct 4, 8 AM	Same.	Same.
14 hrs		Oct 4, 6 PM - Oct 5, 8 AM	Same.	Same.
14 hrs		Oct 5, 6 PM - Oct 6, 8 AM	Same.	Same.
14 hrs	Oct 6, 6 PM - Oct 7, 8 AM	Same.	Same.	
14 hrs	Oct 10, 6 PM - Oct 11, 8 AM	Same.	Same.	
14 hrs	Oct 11, 6 PM - Oct 12, 8 AM	Same.	Same.	

Table 7 Continued.

Select Area Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
14 hrs	Steamboat Slough - Fall (cont.)	Oct 12, 6 PM - Oct 13, 8 AM	8" max. mesh size restriction. Nets may not exceed 100 fathoms in length. No weight restriction on leadline.	Steamboat Slough select fishing area (concurrent waters). Fishers may transport their catch outside of fishing area with a permit issued by an authorized agency employee after examining the catch. Salmon and sturgeon.
14 hrs		Oct 13, 6 PM - Oct 14, 8 AM	Same.	Same.
14 hrs		Oct 17, 6 PM - Oct 18, 8 AM	Same.	Same.
14 hrs		Oct 18, 6 PM - Oct 19, 8 AM	Same.	Same.
14 hrs		Oct 19, 6 PM - Oct 20, 8 AM	Same.	Same.
14 hrs		Oct 20, 6 PM - Oct 21, 8 AM	Same.	Same.
14 hrs		Oct 24, 6 PM - Oct 25, 8 AM	Same.	Same.
14 hrs		Oct 25, 6 PM - Oct 26, 8 AM	Same.	Same.
14 hrs		Oct 26, 6 PM - Oct 27, 8 AM	Same.	Same.
14 hrs		Oct 27, 6 PM - Oct 28, 8 AM	Same.	Same.

Special Seasons				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
26	Smelt - Main-stem	Dec 1, 1999 - Dec 26, 1999	Gill, trawl, and dip nets. Gillnet mesh <2". No trawl vessel >32' above Zone 1.	Zones 1-5 commercial smelt fishing only. 7 days/week season.
9	Smelt - Test Fishery	Dec 29, 1999 - Feb 23, 2000	Same.	Same. Columbia River open Wednesdays only, 7 AM to 7 PM, weekly.
--	Smelt - Tributaries	No Season	Dip net.	Columbia River tributaries closed, excluding the Sandy River.
5	Shad - Area 2S	May 22 - May 26	5-3/8" to 6-1/4" mesh size - 10 lb. breaking strength. Net may not exceed 150 fathoms in length and 40 meshes deep.	Area 2S. Open 3 PM - 10 PM, daily. Shad only.
4		May 30 - Jun 2	Same.	Same.
5		Jun 5 - Jun 9	Same.	Same.
5		Jun 12 - Jun 16	Same.	Same.
5		Jun 19 - Jun 23	Same.	Same.

Table 7 Continued.

Special Seasons (continued)				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
2	Shad - Area 2S (cont.)	Jun 26 - Jun 27	5-3/8" to 6-1/4" mesh size - 10 lb. breaking strength. Single wall, unslackened floater gillnet. May not exceed 150 fathoms in length and 40 meshes deep.	Area 2S. Open 3 PM - 10 PM, daily. Shad only.
3		Jun 28 - Jun 30	Same.	Same. Same. Shad, non-adipose fin-clipped sockeye, chinook jacks, and sturgeon.
5	Shad - Wash. Reef	May 15 - May 19	5-3/8" to 6-1/4" mesh size - 30 lb. breaking strength. Single wall, unslackened floater gillnet.	Camas - Washougal Reef. Open 4 AM Monday to 12 midnight Friday, weekly. Shad only.
5		May 22 - May 26	Same.	Same.
4		May 30 - Jun 2	Same.	Same.
5		Jun 5 - Jun 9	Same.	Same.
5		Jun 12 - Jun 16	Same.	Same.
5		Jun 19 - Jun 23	Same.	Same.
5		Jun 26 - Jun 30	Same.	Same.
366		Herring/ Anchovy	Entire year	Seine not to exceed 1400' in length. 1/2" min mesh size restriction.

Table 8. Treaty Indian Commercial Fishing Seasons, 2000.

Gill-Net Salmon and Sturgeon Seasons				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
47	Winter	Feb 1, noon - Mar 18, 6 PM	No mesh size restrictions.	All of Zone 6. Standard dam and river mouth sanctuaries in place, except Spring Creek sanctuary not in place. Salmon, steelhead, sturgeon, shad, walleye, and carp.
--	Spring	No Season		
--	Sockeye	No Season		
3 1/2	Fall	Aug 30, 6 AM - Sep 2, 6 PM	No mesh size restrictions.	All of Zone 6. Standard dam and river mouth sanctuaries except large Spring Creek sanctuary in place. Salmon, steelhead, shad walleye, and carp. No sturgeon sales.
4 1/2		Sep 5, 6 AM - Sep 9, 6 PM	Same.	Same.
4 1/2		Sep 12, 6 AM - Sep 16, 6 PM	Same.	Same.
4 1/2		Sep 19, 6 AM - Sep 23, 6 PM	Same.	Same.

Special Seasons				
Days	Season	Dates	Special Regulations	
			Gear	Area/Other
30	Sturgeon	Jan 1, noon - Jan 31, noon	Setline.	All of Zone 6. Sturgeon only.
82 1/4		Mar 20, noon - Jun 10, 6 PM	Same.	Bonneville Pool only. Sturgeon only.
133 1/4		Mar 20, noon - Jul 31, 6 PM	Same.	John Day Pool only. Sturgeon only.
12 1/2		Aug 8, 6 AM - Aug 20, 6 PM	Same.	Same.
90 1/2		Oct 2, 6 AM - Dec 31, 6 PM	Same.	Same.
22 1/4	Spring	May 6, noon - May 28, 6 PM	Subsistence fishing gear; including dip nets, hoop nets, setbag nets, and hook-and-line.	All of Zone 6 including the Wind, White Salmon, and Klickitat rivers. Salmon, steelhead, shad, walleye, and carp may be sold.
9 1/2	Sockeye	Jul 1, 6 AM - Jul 10, 6 PM	Subsistence fishing gear; including dip nets, hoop nets, setbag nets, and hook-and-line.	All waters of Zone 6 open to subsistence fishing. Sockeye and chinook \leq 24 inches may be sold.
366	Shad	Entire Year	Dip net.	All of Zone 6. Dip-net-caught shad may be sold.
51	Klickitat River - Fall	Sep 26, noon - Dec 16, 6 PM	Dip net, setbag net, and hook-and-line.	Klickitat River from swinging bridge to 25 feet below fishway # 5 entrance. Open noon Tuesday through 6 PM Saturday, weekly. Only chinook and coho may be sold. Steelhead may not be sold (subsistence fishery).

Table 9. Listed Status Under the Federal ESA for Salmon and Steelhead of the Columbia Basin.

Table 9. Listed Status Under the Federal ESA for Salmon and Steelhead of the Columbia Basin.				
Species - ESU	Designation	Register Date	Effective date	Description
<u>Sockeye</u>				
<i>Snake River</i>	Endangered	November 20, 1991	December 20, 1991	Idaho-origin populations.
<u>Chinook</u>				
<i>Snake River Fall</i>	Threatened	April 22, 1992	May 22, 1992	Mainstem Snake, Tucannon, Grande Ronde, Imnaha, Salmon, and Clearwater river natural-spawning populations.
<i>Snake River Spring/Summer</i>	Threatened	April 22, 1992	May 22, 1992	All natural populations in the mainstem Snake, Tucannon, Grand Ronde, Imnaha, and Salmon rivers. Clearwater spring/summer chinook are excluded.
<i>Upper Columbia Spring</i>	Endangered	March 24, 1999	May 24, 1999	Tributaries from Rock Island Dam to Chief Joseph Dam including the Wenatchee, Entiat, and Methow rivers. Includes the Chiwawa, Methow, Twisp, Chewuch, White, and Nason hatchery stocks.
<i>Upper Columbia Summer/Fall</i>	Not warranted	--	March 19, 1998	All naturally spawned populations of summer and fall run chinook salmon in the Columbia River and tributaries upstream of the confluence of the Snake and Columbia Rivers to Chief Joseph Dam excluding chinook salmon which spawn in the Marion Drain.
<i>Middle Columbia Spring</i>	Not warranted	--	March 19, 1998	All naturally spawned populations of spring run chinook salmon in Columbia River tributaries from the Klickitat River upstream to include the Yakima River and to exclude the Snake River Basin.
<i>Lower Columbia R. Spring/Fall</i>	Threatened	March 24, 1999	May 24, 1999	All naturally spawned populations from the river mouth upstream to, but not including the Klickitat River.
<i>Upper Willamette Spring</i>	Threatened	March 24, 1999	May 24, 1999	All naturally spawned populations in the Clackamas River and in the Willamette River and its tributaries above Willamette Falls.
<i>Deschutes River Fall</i>	Not Warranted	--	September 16, 1999	All naturally spawned populations from the Deschutes River.
<u>Chum</u>				
<i>Columbia River</i>	Threatened	March 25, 1999	May 24, 1999	All naturally spawned populations in the mainstem and its tributaries.
<u>Coho</u>				
<i>Lower Columbia</i>	Candidate	1995	1995	Currently the subject of a status review. Decision pending.
<u>Steelhead</u>				
<i>Snake River</i>	Threatened	August 18, 1997	October 17, 1997	Snake River Basin tributaries.
<i>Upper Columbia River</i>	Endangered	August 18, 1997	October 17, 1997	Tributaries upstream from the Yakima River to the US/Canada Border. The listed component includes Wells Hatchery steelhead.
<i>Middle Columbia River</i>	Threatened	March 25, 1999	May 24, 1999	Tributaries from above the Wind River in WA and the Hood River in OR (exclusive), upstream to, and including, the Yakima River.
<i>Lower Columbia River</i>	Threatened	March 19, 1998	May 18, 1998	Tributaries between the Cowlitz and Wind rivers (inclusive) in WA and the Willamette and Hood rivers (inclusive) in OR.
<i>Southwest Washington</i>	Not warranted	--	August 9, 1996	River basins of, and tributaries to, Grays Harbor, Willapa Bay, and the Columbia River below the Cowlitz River in WA and the Willamette River in OR. Only winter run steelhead are native to these drainages.
<i>Upper Willamette</i>	Threatened	March 25, 1999	May 24, 1999	Willamette River and its tributaries, upstream from Willamette Falls to the Calapooia River, inclusive.
<u>Smelt</u>				
<i>Columbia River</i>	Petition not Accepted			

Table 10. Runsize Forecast and Actual Adult Returns of Selected Runs of Salmon to the Columbia River, 2000.

Selected Runs	Preseason Forecast	Actual Returns	Actual as % of Forecasted
Spring Chinook			
Cowlitz River 1/	2,000	1,700	85%
Kalama River 1/	1,400	1,400	100%
Lewis River 1/	2,600	2,200	85%
Willamette River	59,900	57,500	96%
Sandy River 2/	3,800	3,800	100%
Upriver Run	134,000	179,000	134%
Wind River (Carson NFH) 1/	16,900	21,500	127%
Little White Salmon River 1/	8,100	11,900	147%
Klickitat River 1/	2,300	2,500	109%
Yakima River 1/	5,200	17,200	331%
Ringold Pond 1/	800	900	113%
Icicle River (Leavenworth NFH) 1/	13,000	8,000	62%
Snake River	58,000	52,200	90%
Snake River Wild	5,800	12,400	214%
Summer Chinook			
All Runs	33,000	30,700	93%
Snake River	7,600	4,900	64%
Snake River Wild	2,000	900	45%
Fall Chinook			
Lower River Hatchery	26,400	27,000	102%
Lower River Wild	2,700	10,200	378%
Select Area Bright	3,100	3,400	110%
Bonneville Pool Hatchery	26,900	20,100	75%
Mid-Columbia Bright	58,400	36,700	63%
Upriver Bright	208,200	155,900	75%
Snake River	16,300	12,800	79%
Snake River Wild	1,800	1,977	110%
Sockeye			
All Runs	31,200	93,800	301%
Wenatchee	5,500	22,500	409%
Okanogan	25,500	70,800	278%
Snake River	168	447	266%
Coho			
Early	253,600	362,200	143%
Late	196,600	224,500	114%

1/ Adult returns to subbasin only.

2/ Total (adult and jack) returns to subbasin only.

Table 11. Five Day Average Columbia River Temperature, Turbidity, and Flow at Bonneville Dam, 2000.

Five Day Period			Temp. (°F)	Turb. (ft)	Flow (kcfs)	Five Day Period			Temp. (°F)	Turb. (ft)	Flow (kcfs)
01-Jan	to	5-Jan	44.0	6.0	191.4	30-Jun	to	04-Jul	66.2	4.7	165.9
06-Jan	to	10-Jan	43.4	5.6	208.9	05-Jul	to	09-Jul	65.6	5.4	189.8
11-Jan	to	15-Jan	42.2	5.0	211.3	10-Jul	to	14-Jul	66.4	5.1	187.3
16-Jan	to	20-Jan	41.8	6.0	201.9	15-Jul	to	19-Jul	68.2	5.2	171.5
21-Jan	to	25-Jan	41.0	6.9	194.3	20-Jul	to	24-Jul	69.0	5.2	170.5
26-Jan	to	30-Jan	40.8	6.4	218.6	25-Jul	to	29-Jul	69.2	5.7	172.5
31-Jan	to	04-Feb	39.6	6.3	220.3	30-Jul	to	03-Aug	71.2	5.8	170.6
05-Feb	to	09-Feb	40.0	6.1	190.2	04-Aug	to	08-Aug	71.6	5.9	160.2
10-Feb	to	14-Feb	40.0	6.5	207.8	09-Aug	to	13-Aug	71.4	5.8	164.6
15-Feb	to	19-Feb	41.2	6.2	211.9	14-Aug	to	18-Aug	69.8	6.0	167.0
20-Feb	to	24-Feb	41.0	5.3	162.4	19-Aug	to	23-Aug	69.0	6.8	130.6
25-Feb	to	01-Mar	41.5	4.3	194.8	24-Aug	to	28-Aug	69.0	6.3	106.9
02-Mar	to	06-Mar	42.0	5.2	187.0	29-Aug	to	02-Sep	68.6	6.5	129.5
07-Mar	to	11-Mar	42.6	5.3	210.8	03-Sep	to	07-Sep	67.6	6.9	111.1
12-Mar	to	16-Mar	43.8	4.4	205.1	08-Sep	to	12-Sep	67.6	6.6	109.5
17-Mar	to	21-Mar	45.2	4.5	187.4	13-Sep	to	17-Sep	68.0	6.8	133.8
22-Mar	to	26-Mar	46.0	4.6	186.7	18-Sep	to	22-Sep	67.0	6.3	137.1
27-Mar	to	31-Mar	46.6	5.1	193.0	23-Sep	to	27-Sep	65.4	6.7	115.2
01-Apr	to	05-Apr	48.2	4.5	192.1	28-Sep	to	02-Oct	64.6	6.5	103.6
06-Apr	to	10-Apr	49.4	4.3	241.8	03-Oct	to	07-Oct	63.8	1.8	120.4
11-Apr	to	15-Apr	51.8	3.8	284.3	08-Oct	to	12-Oct	62.6	4.5	114.6
16-Apr	to	20-Apr	52.4	3.2	296.5	13-Oct	to	17-Oct	61.0	5.3	111.0
21-Apr	to	25-Apr	53.6	2.8	347.1	18-Oct	to	22-Oct	60.8	6.5	112.7
26-Apr	to	30-Apr	53.0	3.1	306.3	23-Oct	to	27-Oct	59.4	5.6	111.3
01-May	to	05-May	53.2	3.4	301.8	28-Oct	to	01-Nov	58.6	6.4	121.9
06-May	to	10-May	54.6	3.3	286.2	02-Nov	to	06-Nov	57.8	5.9	130.2
11-May	to	15-May	55.6	3.3	279.8	07-Nov	to	11-Nov	55.6	6.0	131.4
16-May	to	20-May	56.4	3.3	253.0	12-Nov	to	16-Nov	53.9	6.5	133.0
21-May	to	25-May	59.0	3.6	277.0	17-Nov	to	21-Nov	52.2	7.0	132.7
26-May	to	30-May	60.0	3.6	234.0	22-Nov	to	26-Nov	49.8	7.0	131.4
31-May	to	04-Jun	60.4	3.4	232.2	27-Nov	to	01-Dec	47.4	6.4	131.1
05-Jun	to	09-Jun	61.2	3.5	233.2	02-Dec	to	06-Dec	46.2	6.2	136.8
10-Jun	to	14-Jun	61.0	3.7	213.0	07-Dec	to	11-Dec	45.6	7.0	151.5
15-Jun	to	19-Jun	62.8	3.8	207.7	12-Dec	to	16-Dec	46.6	6.1	158.0
20-Jun	to	24-Jun	63.6	4.5	210.7	17-Dec	to	21-Dec	46.0	7.0	148.7
25-Jun	to	29-Jun	65.2	5.2	203.8	22-Dec	to	26-Dec	45.0	6.6	139.8
						27-Dec	to	31-Dec	44.0	6.9	139.4

Table 12. Number of Columbia River Gill Net Licenses Issued, 1938-2000. 1/

Year	Oregon	Washington	Combined
1938	713	478	1,191
1939	680	473	1,153
1940	667	441	1,108
1941	629	389	1,018
1942	568	371	939
1943	542	389	931
1944	508	370	878
1945	524	392	916
1946	566	426	992
1947	582	416	998
1948	632	470	1,102
1949	629	490	1,119
1950	613	447	1,060
1951	585	421	1,006
1952	563	403	966
1953	533	386	919
1954	516	374	890
1955	474	338	812
1956	432	360	792
1957	526	292	818
1958	621	252	873
1959	640	229	869
1960	622	184	806
1961	627	164	791
1962	611	143	754
1963	582	158	740
1964	444	245	689
1965	446	237	683
1966	421	215	636
1967	570	208	778
1968	544	224	768
1969	416	181	597
1970	447	235	682
1971	647	369	1,016
1972	547	508	1,055
1973	541	563	1,104
1974 2/	500	861	1,361

Table 12. Continued.

Year	Oregon	Washington	Combined
1975 2/	500	706	1,206
1976 2/	500	692	1,192
1977 2/	500	748	1,248
1978 3/	730	718	1,448
1979 3/	815	709	1,524
1980	571	682	1,253
1981	534	665	1,199
1982	511	622	1,133
1983	475	609	1,084
1984	436	561	997
1985	373	519	892
1986	370	512	882
1987	370	509	879
1988	356	514	870
1989	356	519	875
1990	355	520	875
1991	354	517	871
1992	350	517	867
1993	344	512	856
1994	336	505	841
1995 4/	330	417	747
1996 5/	327	366	693
1997	325	350	675
1998 6/	322	298	620
1999	325	266	591
2000	323	265	588

1/ Limited entry system in effect since 1980 in Oregon and since 1976 in Washington. Vessels required to have an Oregon Columbia River gill-net salmon vessel permit or a Washington Columbia River gill-net license to land fish from the Columbia River.

2/ From 1974-77 the Oregon and combined values are estimates of the number of licensed gill-net vessels because Oregon issued a general commercial fishing license applicable to all types of gear.

3/ Oregon licenses were issued to individuals, not vessels.

4/ A total of 83 Washington Columbia River gill-net licenses were bought back by the state with NEAP salmon disaster relief funds.

5/ A total of 52 Washington Columbia River gill-net licenses were bought back by the state with NEAP salmon disaster relief funds.

6/ A total of 52 Washington Columbia River gill-net licenses were bought back by the state with NEAP salmon disaster relief funds.

Table 13. Days Open to Commercial Main-Stem Salmon Fishing Below Bonneville Dam, 1938-2000. 1/

Year	January- March 2/	April- May	June- July	August	September- December 3/	Total
1938	59 1/2	26 1/2	52	21 1/2	112 1/2	272
1939	59 1/2	26 1/2	52	21 1/2	112 1/2	272
1940	60 1/2	26 1/2	52	21 1/2	112 1/2	273
1941	59 1/2	28 1/4	52 1/4	21 1/2	112 1/2	274
1942	59 1/2	25 1/2	53	21 1/2	112 1/2	272
1943	31	16 1/4	34 3/4	21 3/4	96	199 3/4
1944	41 1/4	18	42 3/4	22 1/2	96	220 1/2
1945	40 1/4	18	42 3/4	22 1/2	96	219 1/2
1946	31	16 1/4	42 3/4	21 1/2	96	207 1/2
1947	31	16 1/4	42 3/4	21 1/2	96	207 1/2
1948	32	25 1/4	33 1/4	21 3/4	96	208 1/4
1949	31	26 1/2	32 1/2	22 1/2	68 1/4	180 3/4
1950	31	21	31 1/2	22 1/2	68 1/4	174 1/4
1951	31	21	31 1/2	22 1/2	68 1/4	174 1/4
1952	32	21	22 3/4	21 1/2	60	157 1/4
1953	31	21 3/4	19	21 1/4	60	153
1954	31	22 1/2	18 1/2	21 3/4	60	153 3/4
1955	31	23	22 3/4	22 1/2	60	159 1/4
1956	32	23	23 1/2	18 3/4	44	141 1/4
1957	31	21 3/4	22 1/4	18 1/4	31	124 1/4
1958	31	11 3/4	26 1/2	17 1/4	30	116 1/2
1959	14	22	24 1/2	17 1/4	20	97 3/4
1960	15	23 1/4	25 1/4	18 1/2	19	101
1961	14	26 1/4	26 1/2	18 1/2	16	101 1/4
1962	14	26 1/4	25 3/4	18 1/2	17	101 1/2
1963	14	22	26 1/2	17 1/2	18	98
1964	15	21 1/4	7 1/2	17 1/4	22	83
1965	14	16 1/4	2	17 3/4	26 3/4	76 3/4
1966	14	21 3/4	1	20 3/4	22 3/4	80 1/4
1967	14	10 1/4	7 3/4	15 3/4	22	69 3/4
1968	19	7 3/4	6	12	30	74 3/4
1969	16	10	6 1/2	18 1/2	27 1/4	78 1/4

Table 13. Continued.

Year	January- March 2/	April- May	June- July	August	September	October- November 3/	Total
1970	14	16	4	13	15	20	82
1971	14	10	6	13	14	20	77
1972	15	19	6	12	7	20	79
1973	14	17	0	10	12	20	73
1974	9	1	0	10	9	20	49
1975	10	0	0	10	14	24	58
1976	5	0	0	7	16	31	59
1977	5	5	0	7	11	12	40
1978	8	0	0	4	10	27	49
1979	11	0	0	2	11	19	43
1980	1	0	0	0	3	10	14
1981	6	0	0	0	3	22	31
1982	8	0	0	1	0	27	36
1983	12	0	0	0	1	4	17
1984	12	0	7	0	6	29	54
1985	13	0	4	0	9	30	56
1986	8	0	1	0	10	33	52
1987	8	0	7	3	12	23	53
1988	15	0	3	1	15	26	60
1989	17	0	0	13	9	27	66
1990	20	0	0	10	8	18	56
1991	13	0	0	4	7	25	49
1992	10	0	0	0	7	16	33
1993	6	0	0	0	8	9	23
1994	14	0	0	0	0	4	18
1995	0	0	0	0	0	2	2
1996	3	0	0	3	5	12	23
1997	7	0	0	2	5	19	33
1998	10	0	0	2	0	7	19
1999	13	0	0	2	7	16	38
2000	18	0	3	3	7	15	46

1/ Days open 1970-present represent actual number of landing days.

2/ No season has occurred in January since 1959, except for target sturgeon seasons where salmon was an allowable species in 1984, 1985 and 1997-2000.

3/ No season has occurred in December since 1949.

Table 14. Columbia River Commercial Landings (in Thousands) of Salmon and Steelhead Below Bonneville Dam, 1938-2000.

Year	Chinook		Coho		Sockeye		Chum		Total Salmon		Steelhead 1/	
	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.
1938	10,743.2	551.4	2,309.9	256.7	325.5	93.0	1,909.4	156.5	15,288.0	1,057.6	1,415.3	172.6
1939	12,004.8	611.4	1,528.3	169.8	180.0	51.4	1,154.2	94.6	14,867.3	927.2	1,204.8	146.9
1940	11,159.9	561.6	1,372.4	152.5	165.1	47.2	1,252.7	102.7	13,950.1	864.0	2,342.7	286.1
1941	18,891.2	949.8	1,022.4	113.6	377.7	107.9	4,149.8	340.1	24,441.1	1,511.4	2,177.3	265.5
1942	15,086.6	759.8	642.7	71.4	136.4	39.0	5,190.1	425.4	21,055.8	1,295.6	1,462.7	178.4
1943	9,376.3	478.6	705.6	78.4	117.7	33.6	959.9	78.7	11,159.5	669.3	1,231.2	150.1
1944	12,214.6	614.5	1,529.7	170.0	33.4	9.5	275.4	22.6	14,053.1	816.6	1,344.0	163.9
1945	11,593.4	585.6	1,834.3	203.8	4.8	1.4	588.8	48.3	14,021.3	839.1	1,616.0	197.1
1946	11,605.8	588.6	1,058.4	117.6	93.3	26.7	886.6	72.7	13,644.1	805.6	1,312.6	160.1
1947	13,888.7	702.2	1,484.8	165.0	574.7	164.2	496.2	40.7	16,444.4	1,072.1	1,299.0	158.4
1948	13,744.1	699.8	1,173.3	130.4	40.8	11.7	1,044.8	85.6	16,003.0	927.5	1,190.6	145.2
1949	9,157.3	471.0	897.7	99.7	4.4	1.2	541.6	44.4	10,601.0	616.3	485.6	59.2
1950	8,247.3	421.8	1,041.4	115.7	121.2	34.6	699.8	57.4	10,109.7	629.5	721.3	88.0
1951	8,366.3	379.6	964.9	107.2	133.0	34.3	519.7	42.6	9,983.9	563.7	938.4	115.8
1952	5,175.4	268.9	1,066.6	118.5	513.0	134.3	308.5	25.3	7,063.5	547.0	1,047.6	141.8
1953	5,644.5	265.4	434.5	48.3	97.1	24.8	249.2	20.4	6,425.3	358.9	1,378.5	169.6
1954	4,318.4	218.7	295.5	32.8	195.6	49.9	320.0	26.2	5,129.5	327.6	1,257.1	132.0
1955	6,469.7	353.9	525.2	58.4	30.5	7.3	125.6	10.3	7,151.0	429.9	963.8	118.5
1956	7,456.3	427.3	447.4	49.7	180.7	45.6	45.7	3.7	8,130.1	526.3	632.5	81.5
1957	5,863.0	335.4	390.5	46.2	239.7	64.9	32.1	2.7	6,525.3	449.2	739.9	96.7
1958	6,283.7	360.0	165.9	18.5	704.4	190.9	89.3	7.4	7,243.3	576.8	671.6	87.3
1959	4,562.2	265.6	119.5	15.1	633.2	184.1	42.9	3.5	5,357.8	468.3	623.8	103.0
1960	3,893.4	263.1	158.0	17.5	392.2	119.4	15.3	1.3	4,458.9	401.3	649.8	90.8
1961	4,043.8	246.1	379.1	37.2	157.6	40.6	16.9	1.3	4,597.4	325.2	602.2	98.4
1962	5,322.3	300.9	582.5	62.8	39.3	10.5	48.1	3.9	5,992.2	378.1	715.2	95.1
1963	3,802.0	214.3	500.6	65.1	20.0	5.1	15.3	1.2	4,337.9	285.7	908.1	108.0
1964	3,838.3	226.6	1,943.6	203.7	16.6	5.0	23.8	1.9	5,822.3	437.2	372.1	49.1
1965	5,269.4	279.9	1,880.3	231.5	0.3	0.1	6.1	0.5	7,156.1	512.0	405.6	51.1
1966	3,409.1	188.6	4,317.6	415.5	0.6	0.2	11.0	0.9	7,738.3	605.2	378.3	44.2
1967	3,953.6	199.3	3,715.7	368.8	76.9	21.2	9.7	0.9	7,755.9	590.2	309.7	34.3
1968	3,330.8	172.8	912.7	125.1	72.4	20.3	3.3	0.3	4,319.2	318.5	340.5	35.5
1969	4,411.8	227.2	1,624.9	190.1	62.0	16.2	4.0	0.3	6,102.7	433.8	348.6	34.1
1970	5,504.8	299.4	5,608.0	520.8	42.7	13.0	8.0	0.6	11,163.5	833.8	194.9	19.9
1971	4,765.9	256.4	2,191.5	264.3	208.1	54.9	5.9	0.5	7,171.4	576.1	238.9	25.5
1972	4,342.8	228.6	1,177.5	131.3	186.9	51.8	16.0	1.3	5,723.2	413.0	343.5	33.5
1973	6,835.2	349.5	1,823.2	183.7	9.8	2.3	18.0	1.4	8,686.2	536.9	337.4	25.0
1974	2,386.3	118.4	2,391.0	261.0	0.0	0.0	10.7	0.9	4,788.0	380.3	68.8	6.2
1975	3,918.2	182.4	1,530.7	156.6	0.0	0.0	5.7	0.5	5,454.6	339.5	--	--
1976	3,023.9	153.0	1,298.4	168.4	0.3	0.1	16.9	1.2	4,339.5	322.7	--	--
1977	3,511.5	183.2	309.0	39.0	0.0	0.0	2.3	0.2	3,822.8	222.4	--	--
1978	2,433.8	123.5	1,074.1	132.7	<0.1	<0.1	20.4	1.5	3,528.3	257.7	--	--
1979	2,033.2	108.1	1,065.8	127.6	<0.1	<0.1	1.6	0.1	3,100.6	235.8	--	--

Table 14. Continued.

Year	Chinook		Coho		Sockeye		Chum		Total Salmon		Steelhead 1/	
	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.
1980	2,342.9	116.4	1,120.6	150.1	0.0	0.0	3.1	0.2	3,466.6	266.7	--	--
1981	764.5	38.7	461.9	59.8	0.0	0.0	18.5	1.4	1,244.9	99.9	--	--
1982	1,935.3	97.6	1,574.3	201.7	0.0	0.0	22.3	1.8	3,531.9	301.1	--	--
1983	624.6	33.2	44.4	7.1	0.0	0.0	2.0	0.2	671.0	40.5	--	--
1984	1,211.9	74.4	1,612.6	201.5	31.8	9.1	22.1	1.8	2,878.4	286.8	--	--
1985	1,298.4	74.5	1,632.4	190.0	111.6	31.9	7.5	0.7	3,049.9	297.1	--	--
1986	2,744.2	175.9	6,724.0	981.0	6.7	1.8	20.2	1.8	9,495.1	1,160.5	--	--
1987	6,219.0	343.0	1,299.7	167.8	107.5	28.3	14.1	1.3	7,640.3	540.4	--	--
1988	7,248.2	342.1	2,645.5	363.0	61.4	17.5	30.2	2.5	9,985.3	725.1	--	--
1989	3,257.9	146.9	2,668.3	389.2	0.0	0.0	17.3	1.3	5,943.5	537.4	--	--
1990	1,300.2	64.2	494.3	75.2	0.0	0.0	9.4	0.8	1,803.9	140.2	--	--
1991	994.7	55.7	2,685.5	409.2	0.0	0.0	4.2	0.4	3,684.4	465.3	--	--
1992	426.6	24.0	299.0	57.8	0.0	0.0	6.9	0.7	732.5	82.5	--	--
1993	337.0	19.7	262.0	36.1	0.0	0.0	0.5	<0.1	599.5	55.8	--	--
1994	64.1	3.8	496.3	63.8	0.0	0.0	0.5	<0.1	560.9	67.7	--	--
1995	11.4	1.1	189.4	22.5	0.0	0.0	0.1	<0.1	200.9	23.6	--	--
1996	282.8	17.9	229.6	28.1	0.0	0.0	0.3	<0.1	512.7	46.0	--	--
1997	189.0	11.1	160.2	20.5	0.0	0.0	0.5	<0.1	349.7	31.6	--	--
1998	113.6	6.6	194.2	23.8	0.0	0.0	0.1	<0.1	307.9	30.4	--	--
1999	145.3	10.0	684.0	80.5	0.0	0.0	1.2	0.1	830.5	90.6	--	--
2000	334.7	20.2	1,548.6	173.9	1.2	0.3	0.4	<0.1	1,884.9	194.4	--	--

1/ Sale of steelhead by non-Indians prohibited since 1975.

Table 15. Oregon and Washington Terminal and Select Area Fisheries' Seasons and Landings, 1979-2000.

Year	Fishery	Season	Days	Chinook		Coho		Chum		White Sturgeon		Green Sturgeon	
				Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1979	Youngs Bay	Aug 22-Oct 31	70	28,358	1,585	190,321	22,542	65	5	463	20	0	0
1980	Youngs Bay	Aug 24-Oct 31	68	112,883	5,900	103,422	12,526	468	39	1,952	70	412	16
	Grays Bay	Aug 25-Sep 12	7	335,806	16,502	14,477	1,957	15	1	28,506	1,018	22,518	877
	Skamokawa	Aug 25-Sep 12	11	10,223	555	5,308	681	0	0	77	3	0	0
	Elokomin	Aug 25-Sep 12	11	86,979	4,611	38,637	4,953	0	0	564	20	72	3
	Cowlitz	Aug 25-Sep 12	11	190,439	10,224	48,210	6,603	0	0	370	13	84	3
	Camas	Aug 25-Sep 12	11	66,196	3,293	15,839	2,140	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0
1981	Youngs Bay	Aug 17-Nov 12	87	113,275	4,688	67,197	8,110	2,402	181	1,245	46	0	0
	Grays Bay	Aug 24-Sep 11	10	71,532	3,640	2,419	367	0	0	8,122	297	2,020	78
	Skamokawa	Aug 24-Sep 11	10	56,063	3,019	3,358	442	0	0	96	3	0	0
	Elokomin	Aug 24-Sep 11	10	14,292	757	1,980	261	0	0	0	0	0	0
	Cowlitz	Aug 24-Sep 11	10	215,210	10,821	18,517	2,764	11	1	504	18	73	3
	Camas	Aug 31-Sep 11	8	63,577	2,812	2,745	416	0	0	0	0	0	0
				0	0	0	0	0	0	0	0	0	0
1982	Youngs Bay	Aug 16-Nov 5	81	101,772	5,129	109,742	12,258	3,237	264	805	28	145	5
	Camas	Sep 7-Sep 10	3	30,378	1,604	13,988	2,077	0	0	26	1	0	0
				0	0	0	0	0	0	0	0	145	5
1983	Youngs Bay	Aug 22-Oct 18	57	66,002	3,553	23,484	3,550	60	5	470	17	18	1
	Big Creek	Aug 29-Sep 9	4	27,831	1,243	31	6	0	0	319	11	0	0
				0	0	0	0	0	0	0	0	0	0
1984	Youngs Bay	Aug 20-Nov 2	74	74,179	3,696	374,768	40,620	2,212	177	563	21	87	3
1985	Youngs Bay	Aug 19-Nov 1	74	64,393	3,466	473,873	51,202	209	19	428	16	115	5
1986	Youngs Bay	Aug 10-Nov 7	89	94,548	5,447	410,568	55,575	56	5	422	16	79	3

Table 15. Continued.

Fishery	Season	Days	Chinook		Coho		Chum		White Sturgeon		Green Sturgeon	
			Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Youngs Bay	Aug 9-Nov 6	89	374,241	22,186	109,725	16,113	37	4	232	8	0	0
Big Creek	Aug 25-Sep 11	9	272,871	14,734	5,591	746	0	0	80	3	0	0
			0	0	0	0	0	0	0	0	0	0
Youngs Bay	Aug 21-Oct 31	71	408,185	19,711	383,231	51,221	577	57	377	12	26	1
Big Creek	Aug 30-Sep 8	4	213,904	9,216	1,287	172	0	0	42	1	0	0
			0	0	0	0	0	0	0	0	0	0
Youngs Bay	Aug 20-Oct 31	72	133,283	6,665	178,385	28,066	30	2	623	20	345	12
Youngs Bay	Aug 19-Oct 31	73	62,917	3,226	147,027	27,596	262	21	212	8	127	4
Youngs Bay	Aug 18-Oct 31	74	39,100	2,241	528,197	82,123	130	13	751	31	453	23
Youngs Bay	Apr 27-May 26	9	3,348	296	0	0	0	0	381	10	0	0
Youngs Bay	Aug 16-Oct 31	76	20,071	1,257	93,264	19,552	382	46	546	21	117	6
			0	0	0	0	0	0	0	0	0	0
Youngs Bay	Apr 26-May 26	9	12,780	851	0	0	0	0	974	32	0	0
Youngs Bay	Aug 22-Oct 31	70	5,121	365	109,719	15,458	39	4	385	17	30	1
			0	0	0	0	0	0	0	0	0	0
Youngs Bay	Apr 25-May 25	9	2,218	155	0	0	0	0	758	31	0	0
Youngs Bay	Aug 22-Oct 31	44	1,515	119	449,560	57,751	128	14	100	4	0	0
			0	0	0	0	0	0	0	0	0	0
Youngs Bay	May 1-June 7	11	2,891	201	0	0	0	0	2,799	114	0	0
Youngs Bay	Aug 27-Oct 31	65	7,656	826	187,619	22,309	63	7	1,671	65	0	0
			0	0	0	0	0	0	0	0	0	0

Table 15. Continued.

Year	Fishery	Season	Days	Chinook		Coho		Chum		White Sturgeon		Green Sturgeon	
				Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1996	Youngs Bay	Apr 29-Jun 14	15	9,421	789	0	0	0	0	14,203	581	22	1
	Youngs Bay	Aug 12-Oct 31	62	13,438	1,439	128,244	15,783	38	3	2,317	85	0	0
	Big Creek	Aug 26-Sep 11	6	58,238	3,389	1,008	143	0	0	738	25	0	0
	Tongue Pt. 1/	Sep 17-Oct 31	14	752	50	16,376	1,955	0	0	--	--	--	--
	Blind Slough1/	Sep 16-Oct 29	13	1,209	82	18,266	2,301	22	2	--	--	--	--
	Deep River1/	Sep 16-Oct 29	13	511	35	18,838	2,240	0	0	--	--	--	--
				0	0	0	0	0	0	0	0	0	0
1997	Youngs Bay	Apr 28-Jun 13	22	24,338	1,821	0	0	0	0	8,827	351	38	1
	Youngs Bay	Aug 11-Oct 31	66	22,571	1,726	111,159	13,647	34	2	2,152	76	0	0
	Big Creek	Sep 2-Sep 11	4	39,019	2,000	393	55	0	0	621	20	0	0
	Tongue Pt. 1/	Sep 3-Oct 24	16	2,615	180	6,481	861	4	1	--	--	--	--
	Blind Slough1/	Sep 8-Oct 22	18	502	32	12,259	1,605	0	0	--	--	--	--
	Deep River1/	Sep 8-Oct 22	18	858	61	4,281	515	3	1	--	--	--	--
				89,903	5,820	134,573	16,683	41	4	11,600	447	38	1
1998	Youngs Bay	Feb 25-Jun 12	26	34,031	2,128	0	0	0	0	6,692	256	0	0
	Youngs Bay	Aug 10-Oct 31	64	15,975	1,422	158,493	19,523	15	2	2,768	102	0	0
	Tongue Pt.	Apr 29-May 27	9	484	31	0	0	0	0	2,206	80	35	1
	Tongue Pt.	Sep 10-Oct 29	14	6,341	431	27,715	3,374	9	1	1,761	68	0	0
	Blind Slough	Apr 29-Jun 12	13	702	60	0	0	0	0	488	19	0	0
	Blind Slough	Sep 8-Oct 30	19	1,267	95	4,737	615	0	0	19	1	0	0
				58,800	4,167	190,945	23,512	24	3	13,934	526	35	1
1999	Youngs Bay	Feb 24-Jul 28	36	19,183	1,298	0	0	0	0	4,863	170	41	1
	Youngs Bay	Aug 3-Oct 31	58	23,056	1,589	136,591	15,911	24	2	2,877	99	58	2
	Tongue Pt.	Apr 28-Jun 9	13	2,836	199	0	0	0	0	6,717	260	44	1
	Tongue Pt.	Sep 7-Oct 28	19	5,002	339	31,737	3,659	0	0	3,008	106	40	1
	Blind Slough	Apr 28-Jul 28	16	5,962	458	0	0	0	0	2,448	94	0	0
	Blind Slough	Sep 9-Oct 28	19	2,484	167	16,345	1,958	0	0	136	4	0	0
	Deep River	Sep 9-Oct 28	19	739	48	13,507	1,430	22	2	0	0	64	2
				59,262	4,098	198,180	22,958	46	4	20,049	733	247	7

Table 15. Continued.

Year	Fishery	Season	Days	Chinook		Coho		Chum		White Sturgeon		Green Sturgeon	
				Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
2000	Youngs Bay	Feb 23-Jul 26	37	55,278	4,721	0	0	0	0	7,629	266	0	0
	Youngs Bay	Aug 1-Oct 31	61	23,203	1,744	281,352	33,214	8	1	2,420	88	0	0
	Tongue Pt.	Feb 29-Jun 15	18	12,310	947	0	0	0	0	5,852	225	0	0
	Tongue Pt.	Sep 5-Oct 31	32	3,764	252	97,104	10,731	0	0	1,705	59	304	10
	Blind Slough	Feb 27-Jun 14	17	11,110	818	0	0	0	0	1,159	44	0	0
	Blind Slough	Sep 7-Oct 31	31	2,343	132	30,463	3,398	0	0	343	9	0	0
	Deep River	Sep 5-Oct 31	32	1,595	109	137,646	13,801	19	1	0	0	21	1
	Steamboat Sl.	Sep 7-Oct 28	30	1,215	78	3,678	363	0	0	23	1	0	0
				<u>110,818</u>	<u>8,801</u>	<u>550,243</u>	<u>61,507</u>	<u>27</u>	<u>2</u>	<u>19,131</u>	<u>692</u>	<u>325</u>	<u>11</u>

1/ Sturgeon sales not allowed.

Table 16. Columbia River Commercial Landings (Thousands of Pounds) and Ex-Vessel Value (Thousands of Dollars) by Species, 1981-2000. 1/

Year	Zones 1-5 2/																Total Value
	Chinook		Coho		Sockeye		Chum		White Sturgeon		Green Sturgeon		Smelt 3/		Shad		All Species
	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Zones 1-5
1981	764.5	1,307.3	461.9	512.7	0.0	0.0	18.5	11.3	419.9	449.3	5.1	2.1	1,672.3	167.2	66.7	16.7	2,466.6
1982	1,935.1	1,935.1	1,574.3	1,353.9	0.0	0.0	22.3	11.6	353.0	381.2	24.4	8.1	2,210.0	287.3	291.4	64.1	4,041.3
1983	624.6	843.2	44.4	47.1	0.0	0.0	2.0	1.1	398.6	462.4	18.6	7.6	2,730.4	682.7	270.2	45.9	2,090.0
1984	1,211.9	1,745.1	1,612.5	1,854.4	31.9	37.0	22.1	11.7	524.4	723.7	84.5	35.5	498.0	109.6	57.1	12.6	4,529.6
1985	1,298.4	1,687.9	1,632.4	1,371.2	111.7	128.5	7.5	2.5	270.4	416.4	41.0	18.0	2,038.0	264.9	111.1	21.1	3,910.5
1986	2,744.2	2,524.7	6,724.0	6,724.0	6.7	7.6	20.2	6.3	373.9	590.8	180.6	90.3	3,838.8	383.9	308.5	64.8	10,392.4
1987	6,219.0	8,644.4	1,299.7	2,443.4	107.5	164.5	14.1	13.3	307.0	491.2	145.7	74.3	1,895.7	227.5	313.7	62.7	12,121.3
1988	7,248.2	13,771.6	2,645.5	5,820.1	61.4	111.7	30.2	20.2	217.1	388.6	114.1	63.9	2,867.7	286.8	326.4	52.2	20,515.1
1989	3,257.9	2,899.5	2,668.3	2,294.7	0.0	0.0	17.3	8.1	162.0	290.0	47.8	21.5	3,066.8	268.7	143.8	28.8	5,811.3
1990	1,300.2	2,197.3	494.3	578.3	0.0	0.0	9.4	5.7	176.2	354.2	64.9	48.7	2,784.2	250.6	450.2	72.0	3,506.8
1991	994.7	1,502.0	2,685.5	2,121.5	0.0	0.0	4.2	1.7	120.6	223.1	89.0	56.1	2,950.4	236.0	120.8	27.8	4,168.2
1992	426.6	614.4	299.0	269.1	0.0	0.0	6.9	1.7	172.4	274.1	62.3	26.1	3,673.8	293.9	395.2	71.1	1,550.4
1993	337.0	347.1	262.1	214.9	0.0	0.0	0.5	0.2	218.9	260.5	66.4	21.9	513.8	56.5	405.2	64.8	965.9
1994	64.1	122.4	496.3	412.0	0.0	0.0	0.5	0.1	167.4	209.3	6.4	2.1	43.5	11.7	155.7	32.7	790.3
1995	11.4	19.4	189.4	119.3	0.0	0.0	0.1	<0.1	162.9	267.1	11.3	5.7	440.0	66.5	171.1	44.5	522.5
1996	282.8	115.9	229.6	142.4	0.0	0.0	0.3	<0.1	229.5	298.3	19.6	9.4	9.1	11.5	158.8	41.3	618.8
1997	189.0	147.6	160.2	118.8	0.0	0.0	0.5	0.1	342.0	338.1	59.4	17.2	58.6	151.7	68.5	11.0	784.5
1998	113.6	152.0	194.2	122.3	0.0	0.0	0.1	<0.1	380.1	419.2	31.2	7.4	12.1	31.6	70.7	15.6	748.1
1999	145.3	212.1	683.9	574.5	0.0	0.0	1.2	0.3	262.4	325.4	32.9	9.2	20.9	84.0	117.6	24.7	1,230.2
2000	334.7	568.9	1,548.6	820.7	1.2	2.4	0.4	0.1	300.4	438.5	44.3	14.2	25.5	81.8	88.4	17.7	1,944.3

Table 16. Continued.

Year	Zone 6 4/														Total Value	
	Chinook		Coho		Sockeye		Steelhead		White Sturgeon		Shad		Walleye		All Species	
	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Lbs.	Value	Zone 6	Zones 1-6
1981	974.9	974.9	11.3	12.2	<0.1	0.0	98.0	119.6	70.4	69.0	0.0	0.0	--	--	1,175.7	3,642.3
1982	1,100.8	704.5	25.9	23.3	0.5	0.7	96.5	107.1	44.8	45.2	6.0	0.9	--	--	881.7	4,923.0
1983	414.3	356.3	1.0	0.7	6.5	4.4	156.7	120.7	48.7	48.7	1.2	0.2	--	--	531.0	2,621.0
1984	857.1	1,028.5	8.7	8.4	78.7	85.0	908.4	953.8	88.3	120.1	8.8	0.7	--	--	2,196.5	6,726.1
1985	1,348.3	1,213.5	42.3	28.8	175.8	170.5	766.2	360.1	168.5	235.9	0.0	0.0	--	--	2,008.8	5,919.3
1986	1,984.8	1,607.7	96.1	72.1	17.1	19.7	683.8	382.9	322.1	521.8	2.3	0.3	--	--	2,604.5	12,996.9
1987	2,797.8	4,504.5	13.7	16.6	149.0	219.0	753.8	829.2	384.1	672.2	36.4	1.5	--	--	6,243.0	18,364.3
1988	3,290.9	6,483.1	38.0	69.2	119.6	246.4	764.8	1,093.7	136.6	266.4	59.0	5.9	--	--	8,164.7	28,679.8
1989	2,862.4	1,831.9	14.8	8.9	0.1	0.1	591.0	319.1	126.7	269.9	0.3	0.1	9.3	6.1	2,436.1	8,247.4
1990	1,795.1	2,082.3	6.9	5.6	<0.1	0.0	331.0	268.1	115.5	242.6	0.4	0.1	2.2	2.2	2,600.9	6,107.7
1991	999.8	569.9	44.7	29.5	<0.1	0.0	307.4	187.5	46.7	110.7	<0.1	0.0	4.3	3.2	900.8	5,069.0
1992	525.7	467.9	4.8	3.2	<0.1	0.0	465.2	307.0	54.1	122.3	0.8	0.1	6.8	5.2	905.7	2,456.1
1993	540.7	362.3	9.4	7.4	<0.1	0.0	263.0	134.2	61.6	108.3	2.8	0.4	5.4	4.2	616.8	1,582.7
1994	540.5	378.3	8.6	4.3	0.0	0.0	110.2	54.0	46.8	69.3	30.7	5.8	2.9	2.4	514.2	1,304.5
1995	594.8	196.3	2.1	0.5	0.0	0.0	100.7	32.2	54.0	105.8	124.0	31.0	8.9	7.5	373.3	895.8
1996	729.0	233.3	1.2	0.3	0.0	0.0	91.9	26.6	43.3	83.6	561.0	95.4	3.9	3.0	442.2	1,061.0
1997	738.0	295.2	1.6	0.4	0.0	0.0	70.2	23.2	94.0	154.2	20.3	4.1	2.5	2.1	479.2	1,263.7
1998	550.1	319.0	1.6	0.3	0.0	0.0	41.5	13.3	96.6	144.9	60.4	26.6	1.4	1.4	505.5	1,253.6
1999	739.7	399.4	14.3	10.2	0.0	0.0	33.7	19.2	75.6	143.5	41.3	20.2	1.6	1.6	594.1	1,824.3
2000	753.3	467.1	36.5	22.6	0.4	0.8	85.5	28.2	84.8	176.5	0.2	0.1	3.6	3.6	698.9	2,643.2

1/ Value was derived from average dollars per pound per species listed on Oregon fish receiving tickets applied to total river landings.

2/ Includes Youngs Bay, Big Creek (1981-present), other SAFE sites (1996-present), and Washington terminal (1981-82) fisheries' landings.

3/ Includes tributary landings.

4/ Does not include sales to general public that escalated beginning in 1995.

Table 17. Columbia River Commercial Landings (in Thousands of Pounds) of Salmon and Steelhead by Treaty Indian Fishers Using Dip Nets at Celilo Falls, 1938-56. 1//

Year	Chinook	Coho 2/	Sockeye	Steelhead	Total
1938	1,311.5	--	86.5	262.9	1,660.9
1939	1,087.5	--	71.6	186.8	1,345.9
1940	1,616.5	--	155.4	340.9	2,112.8
1941	3,038.2	--	106.2	320.5	3,464.9
1942	2,464.6	--	47.9	274.0	2,786.5
1943	1,548.3	--	27.5	214.7	1,790.5
1944	1,273.4	--	16.3	303.5	1,593.2
1945	941.9	--	3.8	302.1	1,247.8
1946	1,927.1	--	22.9	345.3	2,295.3
1947	2,120.6	--	119.6	245.6	2,485.8
1948	2,600.0	--	51.6	188.3	2,839.9
1949	1,011.5	--	12.6	211.6	1,235.7
1950	1,516.8	--	45.4	156.1	1,718.3
1951	1,474.8	--	32.3	255.9	1,763.0
1952	1,790.7	--	88.2	407.0	2,285.9
1953	1,120.8	--	48.5	500.7	1,670.0
1954	570.5	--	45.0	180.7	796.2
1955	1,475.6	--	168.6	338.9	1,983.1
1956	634.6	--	105.6	170.7	910.9

1/ The dip-net fishery at Celilo Falls ended in 1957 when the falls was inundated by the construction of The Dalles Dam.

2/ Coho landings were usually less than 500 fish annually.

Table 18. Days Open to Commercial Salmon Fishing Above Bonneville Dam, 1938-2000. 1/

Year	January- March 2/	April- May	June- July	August- December 3/	Total
1938-47	<i>Days open same as below Bonneville Dam (Table 12).</i>				
1948	32	25 1/4	33 1/4	117 3/4	208 1/4
1949	31	26 1/2	32 1/2	90 3/4	180 3/4
1950	31	26 1/2	25 3/4	90 3/4	174
1951	31	26 1/2	25 3/4	90 3/4	174
1952	32	26	29 1/2	70 1/4	157 3/4
1953	31	14 3/4	25 1/4	70 1/4	141 1/4
1954	31	22 1/2	18 1/4	70 1/4	142
1955	31	23	22 1/2	71 1/4	147 3/4
1956	32	8 3/4	21 1/4	56 3/4	118 3/4
1957-68	<i>Closed season by joint action of the states of Oregon and Washington. Treaty Indian-only fishing conducted above Bonneville Dam since 1957. Fisheries set prior to June 1968 were by tribal ordinances.</i>				
1968	--	--	6	36	42
1969	0	29	11	42	82
1970	0	16	16	48	80
1971	0	10	16	49	75
1972	0	35	16	46	97
1973	14	40	7	56	117
1974	33	2	0	63	98
1975	59	0	0	54	113
1976	60	0	0	60	120
1977	59	8	0	19	86
1978	59	0	0	27	86
1979	59	0	0	18	77
1980	43	0	0	5	48
1981	59	0	0	8	67
1982	48	0	0	14	62
1983	48	0	6	15	69
1984	49	0	10	32	91

Table 18. Continued.

Year	February- March 2/	April- May	June- July	August- November 3/	Total
1985	48	0	18	29	95
1986	48	0	3	37	88
1987	48	0	13	46	107
1988	49	0	14	35	98
1989	53	0	0	36	89
1990	48	0	0	34	82
1991	48	0	0	20	68
1992	49	0	0	32	81
1993	48	0	0	26	74
1994	34	0	0	10	44
1995	33	0	0	9	42
1996	32	0	0	18	50
1997	35	0	0	14	49
1998	30	0	0	19	49
1999	37	0	0	22	59
2000	47	0	0	15	62

1/ Days open since 1968 represent actual number of landing days.

2/ No season has occurred in January since 1956.

3/ No season has occurred in December since 1955.

Table 19. Columbia River Commercial Landings (in Thousands) of Salmon and Steelhead Above Bonneville Dam, 1938-2000.

Year	Chinook		Coho		Sockeye		Chum		Steelhead		Total	
	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.
1938	1,670.7	86.3	1.1	0.2	99.1	32.6	6.0	0.5	349.1	43.1	2,126.0	162.7
1939	1,494.0	79.4	1.4	0.2	89.8	29.6	20.2	1.7	233.7	28.9	1,839.1	139.8
1940	2,356.2	123.5	0.8	0.1	196.8	64.7	0.8	0.1	472.7	58.3	3,027.3	246.7
1941	4,339.4	230.2	22.6	3.2	128.0	42.1	0.0	0.0	486.4	60.1	4,976.4	335.6
1942	3,573.3	184.1	1.8	0.3	56.0	18.4	1.0	0.1	376.4	46.4	4,008.5	249.3
1943	2,050.2	105.1	0.7	0.1	28.4	9.3	0.0	0.0	283.3	35.0	2,362.6	149.5
1944	1,862.5	99.8	3.6	0.5	21.4	7.0	0.0	0.0	376.1	46.4	2,263.6	153.7
1945	1,378.4	71.4	1.2	0.2	3.9	1.3	0.0	0.0	347.5	42.9	1,731.0	115.8
1946	2,670.4	137.4	1.2	0.2	35.2	11.6	0.0	0.0	413.0	50.9	3,119.8	200.1
1947	3,412.4	175.5	13.3	1.9	143.6	47.2	0.0	0.0	349.7	43.2	3,919.0	267.8
1948	3,647.1	201.8	1.4	0.2	55.0	18.1	0.0	0.0	388.4	47.9	4,091.9	268.0
1949	1,623.7	87.7	1.5	0.2	19.6	6.5	3.4	0.3	328.4	40.6	1,976.6	135.3
1950	2,171.5	112.8	6.6	0.9	48.0	15.8	0.4	0.1	223.9	27.6	2,450.4	157.2
1951	1,663.1	95.4	3.1	0.4	36.4	12.0	12.6	1.0	268.8	34.4	1,984.0	143.2
1952	2,087.0	118.0	7.4	1.1	95.7	31.5	0.1	0.0	414.3	57.3	2,604.5	207.9
1953	1,285.3	79.7	23.0	3.3	49.1	16.2	0.0	0.0	519.8	64.1	1,877.2	163.3
1954	994.3	80.4	7.9	1.1	47.8	17.5	0.0	0.0	193.7	17.4	1,243.7	116.4
1955	2,112.5	151.8	73.6	10.5	169.9	52.4	0.0	0.0	356.2	47.8	2,712.2	262.5
1956	722.3	57.7	12.6	1.8	106.4	35.7	0.0	0.0	182.5	27.4	1,023.8	122.6
1957	55.9	3.7	0.2	0.1	0.5	0.2	0.0	0.0	1.1	0.1	57.7	4.1
1958	150.4	11.7	1.7	0.2	19.1	6.3	0.0	0.0	28.4	4.1	199.6	22.3
1959	32.1	2.2	0.2	0.1	2.6	0.9	0.0	0.0	4.7	0.5	39.6	3.7
1960	34.6	2.4	1.1	0.2	1.9	0.6	0.0	0.0	7.6	0.7	45.2	3.9
1961	116.4	7.5	3.5	0.5	0.4	0.1	0.4	0.1	10.1	1.5	130.8	9.7
1962	145.0	9.9	17.5	2.5	12.4	3.8	0.0	0.0	0.1	<0.1	175.0	16.2
1963	544.1	36.8	0.5	0.1	28.8	8.9	0.0	0.0	64.8	6.4	638.2	52.2
1964	645.7	42.7	19.9	2.5	51.6	15.8	<0.1	<0.1	48.9	6.5	766.1	67.5
1965	873.5	55.6	21.5	3.2	22.6	5.8	0.0	0.0	104.5	13.2	1,022.1	77.8
1966	203.1	12.4	71.5	8.3	16.6	4.2	0.0	0.0	14.7	2.1	305.9	27.0
1967	1,020.5	63.3	102.2	13.6	118.2	34.5	0.0	0.0	135.9	15.9	1,376.8	127.3
1968	766.3	47.2	49.5	7.6	17.2	5.0	0.1	<0.1	93.4	10.4	926.5	70.2
1969	1,364.1	90.7	38.4	7.8	42.5	11.3	0.0	0.0	146.4	14.8	1,591.4	124.6
1970	956.9	57.1	137.6	15.5	13.0	4.1	0.0	0.0	116.9	13.5	1,224.4	90.2
1971	1,201.3	75.1	86.4	13.1	77.5	21.3	0.0	0.0	228.6	25.9	1,593.8	135.4
1972	1,341.8	90.1	61.9	8.7	88.7	26.1	<0.1	<0.1	323.6	28.6	1,816.0	153.5
1973	1,717.2	104.1	81.6	11.1	6.1	1.4	<0.1	<0.1	296.7	27.9	2,101.6	144.5
1974	1,251.5	72.5	41.7	6.8	0.2	<0.1	0.0	0.0	116.4	13.1	1,409.8	92.4
1975	2,668.3	140.6	50.7	5.7	0.0	0.0	0.0	0.0	69.5	7.3	2,788.5	153.6
1976	2,562.8	135.4	30.2	4.0	0.2	<0.1	0.0	0.0	86.6	9.6	2,679.8	149.0
1977	1,176.9	72.4	7.6	1.0	0.5	0.1	0.0	0.0	425.7	35.2	1,610.7	108.7
1978	1,240.6	65.6	22.8	3.7	<0.1	<0.1	0.0	0.0	249.2	20.4	1,512.6	89.7
1979	1,193.1	62.9	31.0	3.9	<0.1	<0.1	<0.1	<0.1	68.6	9.2	1,292.7	76.0

Table 19. Continued

Year	Chinook		Coho		Sockeye		Chum		Steelhead		Total	
	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.
1980	729.5	33.9	1.9	0.3	<0.1	<0.1	0.0	0.0	65.6	7.3	797.0	41.5
1981	974.9	56.4	11.3	1.8	<0.1	<0.1	0.0	0.0	98.0	10.0	1,084.2	68.2
1982	1,100.8	57.7	25.9	4.3	0.5	0.1	0.0	0.0	96.5	9.4	1,223.7	71.5
1983	414.3	24.5	1.0	0.2	6.5	1.8	<0.1	<0.1	156.7	18.5	578.5	45.0
1984	857.1	53.5	8.7	1.6	78.7	22.5	0.0	0.0	908.4	75.1	1,852.9	152.7
1985	1,348.3	76.9	42.3	5.2	175.8	49.4	<0.1	<0.1	766.2	85.5	2,332.6	217.0
1986	1,984.8	107.1	96.1	16.8	17.1	4.3	0.0	0.0	683.8	72.0	2,781.8	200.2
1987	2,797.8	140.5	13.7	2.3	149.0	39.5	0.0	0.0	753.8	79.1	3,714.3	261.4
1988	3,290.9	146.9	38.0	5.2	119.6	31.0	0.0	0.0	764.8	78.5	4,213.3	261.6
1989	2,862.4	128.1	14.8	2.5	0.1	<0.1	0.0	0.0	591.0	60.9	3,468.3	191.5
1990	1,795.1	83.8	6.9	1.0	<0.1	<0.1	0.0	0.0	331.0	32.6	2,133.0	117.4
1991	999.8	51.2	44.7	6.7	<0.1	<0.1	0.0	0.0	307.4	37.0	1,351.9	94.9
1992	525.7	29.2	4.8	1.0	<0.1	<0.1	0.0	0.0	465.2	51.9	995.7	82.1
1993	540.8	31.1	9.4	0.9	<0.1	<0.1	0.0	0.0	263.1	27.6	813.3	59.6
1994	540.4	29.7	8.6	1.0	0.0	0.0	0.0	0.0	110.2	12.9	659.2	43.6
1995	1/ 594.8	31.4	2.1	0.3	0.0	0.0	0.0	0.0	100.7	12.7	697.6	44.4
1996	729.0	41.7	1.3	0.1	0.0	0.0	0.0	0.0	91.9	9.5	822.2	51.3
1997	738.1	39.6	1.6	0.2	0.0	0.0	0.0	0.0	70.2	9.2	809.9	49.0
1998	550.1	31.3	1.6	0.2	0.0	0.0	0.0	0.0	41.5	5.3	593.2	36.8
1999	739.6	43.8	14.3	1.7	0.0	0.0	0.0	0.0	33.7	4.5	787.6	50.0
2000	753.3	38.8	36.5	4.4	0.4	0.1	0.0	0.0	85.5	8.9	875.7	52.2

1/ Since 1995 an increasing proportion of treaty Indian commercial landings have been sold to the general public and not licensed fish buyers. General public sales figures are not included here.

Table 20. Angler Trips and Catch (in Thousands) in the Lower Columbia River (Bonneville to Astoria) Recreational Fisheries, 1969-2000. 1/

Year	Angler Trips 2/				Catch								
	Sal- monid	Stur- geon	Shad	Total	Chinook		Coho		Steelhead		White Sturg.	Green Sturg. 4/	Kept Shad
					Ad.	Jk.	Ad.	Jk.	Sum.	Wint.			
1969	--	--	--	(228.3)	17.1	6.4	0.4	3.1	11.3	(2.5)	6.9	--	5.9
1970	--	--	--	(333.9)	36.4	10.7	2.2	11.5	9.4	(1.2)	8.9	--	10.7
1971 3/	--	--	--	(332.5)	(29.2)	(10.9)	1.4	3.7	(10.8)	(2.7)	3.7	--	6.1
1972 3/	--	--	--	(290.6)	(28.6)	(5.1)	0.9	1.6	(15.4)	(3.0)	6.6	--	3.9
1973 3/	--	--	--	(356.2)	(41.0)	(3.5)	0.3	3.1	(8.5)	(1.6)	12.9	--	7.0
1974	--	--	--	(274.0)	16.5	3.2	0.5	0.3	5.5	(1.3)	12.3	--	12.3
1975	--	--	--	(120.0)	4.3	1.8	0.6	1.0	0.0	(1.0)	18.1	--	14.5
1976	--	--	--	(138.4)	4.8	3.2	0.3	1.0	0.0	(0.4)	19.3	--	15.9
1977	(170.6)	55.1	2.2	(227.9)	19.0	3.0	0.5	6.4	4.4	(0.8)	25.8	--	2.8
1978	(162.2)	82.5	3.7	(248.4)	6.7	2.4	1.0	3.3	2.7	(1.4)	30.4	--	15.7
1979	(102.1)	101.0	4.3	(207.4)	2.8	1.7	0.2	2.9	1.8	(0.5)	31.4	--	12.4
1980	(69.0)	105.9	6.0	(180.9)	2.0	0.5	0.1	0.1	2.3	(0.8)	27.0	--	24.3
1981	(95.1)	116.8	7.3	(219.2)	4.7	1.4	0.1	0.6	5.1	(0.6)	27.2	--	28.7
1982	(80.2)	129.5	6.6	(216.3)	2.9	0.8	0.1	0.8	4.4	(1.2)	25.1	0.0	33.9
1983	(93.7)	145.7	7.3	(246.7)	3.7	1.5	0.2	2.3	3.7	(0.5)	36.0	0.1	28.7
1984	(109.6)	142.2	8.0	(259.8)	3.4	1.6	0.7	0.5	8.1	(0.6)	42.0	0.1	22.3
1985	(109.2)	135.1	7.0	(251.5)	3.5	5.8	1.1	0.4	7.9	(0.6)	43.8	0.5	13.7
1986	(139.4)	145.6	6.5	(291.5)	7.8	3.5	4.0	0.5	11.0	(1.8)	49.8	0.4	18.9
1987	(143.8)	175.3	5.5	(324.6)	7.0	1.7	0.9	3.0	6.5	(0.7)	62.4	0.2	14.3
1988	(143.2)	149.8	6.7	(299.7)	9.1	1.7	0.5	1.5	10.4	(1.0)	43.1	0.1	27.5
1989	(148.6)	142.1	12.8	(303.5)	8.5	1.1	0.2	0.4	8.1	(0.2)	25.4	0.1	64.4
1990	(184.3)	131.5	19.0	(334.8)	15.8	1.4	0.4	2.9	6.3	(0.8)	17.3	0.1	113.8
1991	(139.8)	156.7	20.3	(316.8)	8.2	0.6	1.1	1.3	7.2	(0.3)	22.7	<0.1	100.6
1992	(141.1)	186.8	21.0	(348.9)	7.1	1.4	0.6	1.5	10.9	(0.5)	40.1	0.1	88.3
1993	(123.6)	187.8	20.3	(331.7)	5.6	0.5	0.5	0.1	9.8	(0.1)	37.9	<0.1	111.4
1994	(85.0)	169.0	16.2	(270.2)	2.2	<0.1	0.9	0.1	5.2	(0.2)	33.5	0.1	103.8
1995	(69.4)	191.4	17.8	(278.6)	4.6	1.2	0.2	0.1	8.1	(0.0)	45.1	<0.1	101.4
1996	(79.1)	179.8	15.9	(274.8)	9.3	0.5	0.8	0.1	6.3	(<0.1)	42.8	0.1	129.8
1997	(90.0)	200.5	11.9	(302.4)	8.5	0.4	0.8	0.5	7.1	(<0.1)	38.2	<0.1	98.9
1998	(91.1)	203.6	13.1	(307.9)	7.0	0.6	0.6	0.6	4.8	(0.0)	41.6	0.1	83.4
1999	(100.3)	192.3	12.3	(305.0)	8.7	0.3	1.3	0.5	7.1	(<0.1)	39.8	0.1	79.3
2000	(124.8)	200.0	10.8	(335.7)	7.9	1.5	1.6	2.4	9.8	(0.1)	40.5	<0.1	58.0

1/ The lower Columbia recreational fishery statistical sampling program began in 1969. In all years the minor salmonid fisheries of the winter months are not sampled. Numbers in parentheses indicate incomplete data.

2/ Prior to 1977, angler trip totals by target species are unknown.

3/ During 1971-73, portions of important salmonid fisheries were not sampled.

4/ No green sturgeon catch estimates were made prior to 1982.

Table 21. Angler Trips and Catch (in Thousands) in the Estuary Salmon (Buoy 10) Recreational Fishery, 1982-2000. 1/

Year	Angler Trips	Chinook	Coho	Catch/Trip
1982	17.3	0.7	18.9	1.13
1983	7.1	0.6	3.6	0.59
1984	67.4	12.2	74.4	1.28
1985	32.2	2.7	25.4	0.87
1986	102.2	15.6	120.4	1.33
1987	124.6	42.1	47.2	0.72
1988	186.1	30.8	143.4	0.94
1989 2/	152.8	16.4	81.9	0.64
1990 2/	79.6	5.2	18.5	0.30
1991 2/	171.7	11.6	208.7	1.28
1992	115.5	10.7	43.1	0.47
1993	75.8	5.3	20.9	0.35
1994 3/	9.2	0.0	1.7	0.19
1995 4/	25.2	0.6	5.0	0.22
1996 5/	18.0	1.4	4.5	0.33
1997	55.7	13.2	20.4	0.60
1998 6/	41.0	9.3	6.3	0.38
1999 7/	49.6	9.9	9.0	0.38
2000 8/	72.5	6.1	21.5	0.38

1/ Catch made in the Buoy 10 fishery prior to 1982 is included in the ocean catch totals. The catch numbers in this table are for kept fish only (no estimates of hooking mortality for released fish).

2/ Includes Chinook-Hammond (C&H) fishery.

3/ Opened for coho on September 17 and chinook on October 8, 1994.

4/ Opened for coho on August 1 and chinook on September 7, 1995.

5/ Opened for coho on August 1 and chinook on August 30, 1996.

6/ Includes Astoria-Megler Bridge fishery. Buoy 10 was open August 23, 1998.

7/ Closed for chinook August 30 through September 29, 1999.

8/ Beginning in 2000 the area upstream of the Astoria-Megler Bridge to the Tongue Point/ Rocky Point line was included in the Buoy 10 management area. Closed for chinook August 29-31, 2000.

Table 22. Columbia River Commercial Landings, 2000.

Season	Species	Zones 1-5		Zone 6		Zones 1-6	
		Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Winter/Spring	Chinook	9,353	496	15,489	1,312	24,842	1,808
	Steelhead	--	--	216	29	216	29
	Coho	0	0	0	0	0	0
	White Sturgeon	61,764	2,261	58,139	2,251	119,903	4,512
	Green Sturgeon	0	0	--	--	0	0
	Walleye	--	--	3,335	354	3,335	354
Sockeye	Sockeye	1,193	342	428	122	1,621	464
	Chinook	26	6	7	1	33	7
	White Sturgeon	0	0	--	--	0	0
August	Chinook	169,912	7,393	--	--	169,912	7,393
	Coho	1,048	161	--	--	1,048	161
	Steelhead	--	--	--	--	--	--
	Sockeye	--	--	--	--	--	--
	White Sturgeon	79,296	2,790	--	--	79,296	2,790
	Green Sturgeon	23,351	568	--	--	23,351	568
	Walleye	--	--	--	--	--	--
Fall	Chinook	44,551	3,488	737,821	37,514	782,372	41,002
	Coho	997,271	112,220	36,474	4,415	1,033,745	116,635
	Steelhead	--	--	85,274	8,912	85,274	8,912
	Chum	382	30	--	--	382	30
	Sockeye	--	--	--	--	--	--
	White Sturgeon	140,165	5,127	--	--	140,165	5,127
	Green Sturgeon	20,630	645	--	--	20,630	645
	Walleye	--	--	260	30	260	30
Youngs Bay Select Area (Winter, Spring, & Summer)	Chinook	55,278	4,721	--	--	55,278	4,721
	White Sturgeon	7,629	266	--	--	7,629	266
	Green Sturgeon	0	0	--	--	0	0
Tongue Point Basin Select Area (Winter & Spring)	Chinook	12,310	947	--	--	12,310	947
	White Sturgeon	5,852	225	--	--	5,852	225
	Green Sturgeon	0	0	--	--	0	0
Blind Slough Select Area (Winter & Spring)	Chinook	11,110	818	--	--	11,110	818
	White Sturgeon	1,159	44	--	--	1,159	44
	Green Sturgeon	0	0	--	--	0	0
Youngs Bay Select Area (Fall)	Chinook	23,203	1,744	--	--	23,203	1,744
	Coho	281,352	33,214	--	--	281,352	33,214
	Chum	8	1	--	--	8	1
	White Sturgeon	2,420	88	--	--	2,420	88
	Green Sturgeon	0	0	--	--	0	0
Tongue Point Basin Select Area (Fall)	Chinook	3,764	252	--	--	3,764	252
	Coho	97,104	10,731	--	--	97,104	10,731
	Chum	0	0	--	--	0	0
	White Sturgeon	1,705	59	--	--	1,705	59
	Green Sturgeon	304	10	--	--	304	10
Blind Slough Select Area (Fall)	Chinook	2,343	132	--	--	2,343	132
	Coho	30,463	3,398	--	--	30,463	3,398
	Chum	0	0	--	--	0	0
	White Sturgeon	343	9	--	--	343	9
	Green Sturgeon	0	0	--	--	0	0
Deep River Select Area (Fall)	Chinook	1,595	109	--	--	1,595	109
	Coho	137,646	13,801	--	--	137,646	13,801
	Chum	19	1	--	--	19	1
	White Sturgeon	0	0	--	--	0	0
	Green Sturgeon	21	1	--	--	21	1
Steamboat Slough Select Area (Fall)	Chinook	1,215	78	--	--	1,215	78
	Coho	3,678	363	--	--	3,678	363
	Chum	0	0	--	--	0	0
	White Sturgeon	23	1	--	--	23	1
	Green Sturgeon	0	0	--	--	0	0

Table 22. Continued.

Season	Species	Zones 1-5		Zone 6		Zones 1-6	
		Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Sturgeon - Setline & Hook and Line (Winter)	White Sturgeon	--	--	1,453	57	1,453	57
Sturgeon - Setline & Hook and Line (Spring/Summer)	White Sturgeon	--	--	17,874	699	17,874	699
Sturgeon - Setline & Hook and Line (Fall)	White Sturgeon	--	--	7,373	298	7,373	298
2000 Select Area Totals	Chinook	110,818	8,801	--	--	110,818	8,801
	Sockeye	--	--	--	--	--	--
	Coho	550,243	61,507	--	--	550,243	61,507
	Chum	27	2	--	--	27	2
	White Sturgeon	19,131	692	--	--	19,131	692
	Green Sturgeon	325	11	--	--	325	11
	Shad	150	51	--	--	150	51
	Starry Flounder	4	--	--	--	4	--
2000 Mainstem Totals	Chinook	223,842	11,383	753,317	38,827	977,159	50,210
	Steelhead	--	--	85,490	8,941	85,490	8,941
	Sockeye	1,193	342	428	122	1,621	464
	Coho	998,319	112,381	36,474	4,415	1,034,793	116,796
	Chum	382	30	--	--	382	30
	White Sturgeon	281,225	10,178	84,839	3,305	366,064	13,483
	Green Sturgeon	43,981	1,213	--	--	43,981	1,213
	Walleye	--	--	3,595	384	3,595	384
	Smelt 1/	25,471	--	--	--	25,471	--
	Shad	88,252	30,428	191	65	88,443	30,493
	Starry Flounder	11	--	--	--	11	--
2000 Grand Totals	Chinook	334,660	20,184	753,317	38,827	1,087,977	59,011
	Steelhead	--	--	85,490	8,941	85,490	8,941
	Sockeye	1,193	342	428	122	1,621	464
	Coho	1,548,562	173,888	36,474	4,415	1,585,036	178,303
	Chum	409	32	--	--	409	32
	White Sturgeon	300,356	10,870	84,839	3,305	385,195	14,175
	Green Sturgeon	44,306	1,224	--	--	44,306	1,224
	Walleye	--	--	3,595	384	3,595	384
	Smelt 1/	25,471	--	--	--	25,471	--
	Shad	88,402	30,479	191	65	88,593	30,544
	Starry Flounder	15	--	--	--	15	--

1/ Does not include WA tributary smelt landings.

Table 23. Estimated Numbers (in Thousands) of Lower River Spring Chinook, Including Jacks, Combined with the Upriver Run, Including Jacks, to Form the Total Spring Chinook Run Entering the Columbia River, 1938-2000.

Year	Lower Col. Catch 1/		Tributary Runs 2/					Lower River Run	Upriver Run	Total Run
	Commercial 3/	Sport	Willamette	Sandy	Cowlitz	Lewis	Kalama			
1938	1.3	--	--	--	--	--	--	1.3	117.1	118.4
1939	3.6	--	--	--	--	--	--	3.6	151.9	155.5
1940	7.6	--	--	--	--	--	--	7.6	90.0	97.6
1941	21.4	--	--	--	--	--	--	21.4	107.6	129.0
1942	10.7	--	--	--	--	--	--	10.7	77.2	87.9
1943	2.5	--	--	--	--	--	--	2.5	131.3	133.8
1944 4/	22.1	--	--	--	--	--	--	22.1	56.3	78.4
1945 4/	36.1	--	--	--	--	--	--	36.1	82.7	118.8
1946	6.9	--	68.6	--	--	--	--	75.5	123.8	199.3
1947	7.3	--	59.0	--	--	--	--	66.3	185.5	251.8
1948	7.5	--	40.1	--	--	--	--	47.6	125.7	173.3
1949	2.3	--	37.9	--	--	--	--	40.2	138.1	178.3
1950	1.6	--	24.8	--	--	--	--	26.4	119.7	146.1
1951	3.5	--	49.6	--	--	--	--	53.1	205.9	259.0
1952	6.4	--	67.5	--	--	--	--	73.9	245.9	319.8
1953	16.2	--	96.8	--	--	--	--	113.0	229.4	342.4
1954	4.2	--	44.4	--	--	--	--	48.6	188.8	237.4
1955	3.6	--	32.5	--	--	--	--	36.1	281.0	317.1
1956	3.4	--	77.6	--	--	--	--	81.0	216.9	297.9
1957	2.0	--	52.8	--	--	--	--	54.8	253.0	307.8
1958	7.2	--	62.8	--	--	--	--	70.0	198.5	268.5
1959	7.3	--	53.4	--	--	--	--	60.7	137.5	198.2
1960	4.6	--	24.2	--	--	--	--	28.8	146.4	175.2
1961	4.9	--	27.5	--	--	--	--	32.4	171.4	203.8
1962	2.8	--	38.2	--	3.7	--	--	44.7	210.7	255.4
1963	5.4	--	48.1	--	4.8	--	--	58.3	160.7	219.0
1964	5.6	--	58.4	--	14.7	--	--	78.7	168.5	247.2
1965	3.2	--	41.1	--	22.1	--	--	66.4	175.5	241.9
1966	4.1	--	44.0	--	12.8	--	--	60.9	175.2	236.1
1967	6.8	--	74.4	--	8.3	--	--	89.5	151.0	240.5
1968	8.7	--	47.5	--	9.8	--	--	66.0	133.5	199.5
1969	8.6	5.1	52.6	--	11.9	0.0	0.3	78.5	216.5	295.0
1970	12.5	5.0	53.5	--	10.1	0.2	0.2	81.5	171.2	252.7
1971	13.4	6.5	67.4	--	11.0	0.1	0.5	98.9	168.0	266.9
1972	15.8	0.2	47.1	--	9.3	0.1	0.4	72.9	280.4	353.3
1973	17.2	7.4	54.5	--	13.8	0.1	0.2	93.2	232.9	326.1
1974	13.3	2.2	71.8	--	27.7	0.1	0.5	115.6	108.5	224.1

Table 23. Continued.

Year	Lower Col. Catch 1/		Tributary Runs 2/					Lower River Run	Upriver Run	Total Run
	Commercial 3/	Sport	Willamette	Sandy	Cowlitz	Lewis	Kalama			
1975	9.1	2.4	32.8	--	23.1	0.5	4.0	71.9	<104.2	<176.1
1976	4.7	3.2	40.8	--	30.9	3.2	4.4	87.2	78.3	165.5
1977	6.8	3.1	58.1	0.6	21.7	3.5	2.2	96.0	143.6	239.6
1978	13.5	5.0	71.4	0.7	16.3	4.0	1.9	112.8	129.0	241.8
1979	5.5	1.7	44.6	0.9	16.4	2.6	3.0	74.7	51.5	126.2
1980	0.4	0.8	42.4	1.8	31.5	2.4	2.8	82.1	<61.0	<143.1
1981	6.8	3.5	48.6	2.8	30.2	3.1	3.8	98.8	<65.8	<164.6
1982	4.6	2.2	72.5	1.4	24.9	4.1	9.1	118.8	77.1	195.9
1983	5.4	2.2	55.1	1.8	26.5	3.9	5.4	100.3	59.6	159.9
1984	8.2	1.6	74.5	2.3	22.7	6.7	1.9	117.9	52.8	170.7
1985	9.8	1.1	57.1	1.4	10.4	4.6	0.4	84.8	94.2	179.0
1986	8.6	4.4	62.5	1.3	11.3	9.4	1.2	98.7	125.5	224.2
1987	10.6	2.4	82.9	2.4	20.2	17.4	2.7	138.6	103.2	241.8
1988	13.2	3.3	103.9	2.9	12.8	11.0	2.1	149.2	101.2	250.4
1989	12.4	2.5	102.0	2.0	9.1	12.5	2.1	142.6	89.3	231.9
1990	16.2	9.1	106.3	3.5	9.4	9.4	2.5	156.4	101.5	257.9
1991	11.7	4.1	95.3	3.7	11.4	9.1	2.8	138.1	63.6	201.7
1992	5.1	4.1	68.0	9.2	11.9	6.0	2.7	107.0	92.0	199.0
1993	2.1	1.4	63.9	6.4	9.9	6.7	3.0	93.4	112.8	206.2
1994	1.6	1.6	47.2	3.5	3.4	3.0	1.3	61.6	21.4	83.0
1995	0.2	0.0	42.5	2.7	2.4	3.8	0.7	52.3	12.6	64.9
1996	0.9	0.0	34.6	4.2	1.9	1.8	0.7	44.1	<56.2	100.3
1997	1.9	0.0	35.0	4.6	2.0	2.2	0.5	46.2	115.0	161.2
1998	2.2	0.1	45.1	4.2	1.4	1.6	0.4	55.0	39.1	94.1
1999	1.9	0.0	54.2	3.4	2.4	1.9	1.0	64.8	47.3	112.1
2000	6.9	0.2	57.5	3.8	2.0	2.3	1.5	74.2	199.8	274.0

1/ Beginning in 1981, catch of lower river stocks based on CWT recoveries or GSI analysis, not timing of catch (Feb.-Mar.) as in 1938-80.

2/ Mini-jacks are not included except for the Cowlitz and Lewis rivers prior to 1980.

3/ Beginning in 1992, includes Youngs Bay select area fishery. Beginning in 1998, also includes Blind Slough and Tongue Point select area fisheries.

4/ Includes landings during a special 10-day season (March 21-April 1); 20,300 fish in 1944 and 28,900 fish in 1945.

Table 24. Estimated Numbers (in Thousands) of Lower River Spring Chinook Adults, Combined with the Upriver Adult Run, to Form the Total Spring Chinook Adult Run Entering the Columbia River, 1970-2000.

Year	Lower Col. Catch 1/		Tributary Runs					Lower River Run	Upriver Run	Total Run
	Commercial 2/	Sport	Willamette	Sandy	Cowlitz	Lewis	Kalama			
1970	12.5	4.9	51.8	--	8.0	0.1	0.2	77.5	160.3	237.8
1971	13.4	6.4	66.5	--	8.1	0.1	0.5	95.0	146.5	241.5
1972	15.8	0.2	45.5	--	3.3	0.1	0.3	65.2	269.5	334.7
1973	17.2	7.3	52.7	--	6.5	0.1	0.1	83.9	223.8	307.7
1974	13.3	2.2	71.1	--	19.9	0.1	0.5	107.1	99.8	206.9
1975	9.1	2.4	31.0	--	21.7	0.4	3.9	68.5	<98.0	<166.5
1976	4.7	3.2	38.9	--	26.6	3.1	4.3	80.8	63.9	144.7
1977	6.8	3.1	56.1	0.6	20.9	3.3	1.3	92.1	138.4	230.5
1978	13.5	5.0	69.0	0.7	13.8	3.7	1.0	106.7	127.0	233.7
1979	5.5	1.7	42.9	0.8	13.4	2.5	1.9	68.7	48.6	117.3
1980	0.4	0.8	41.5	1.8	23.7	2.3	2.5	73.0	<53.1	<126.1
1981	6.7	3.4	46.7	2.8	27.9	3.0	3.3	93.8	<63.6	<157.4
1982	4.6	2.2	70.5	1.4	19.3	3.9	8.4	110.3	71.1	181.4
1983	5.4	2.2	52.3	1.8	21.3	3.7	4.9	91.6	57.7	149.3
1984	8.2	1.7	72.9	2.3	21.3	6.4	1.8	114.6	48.5	163.1
1985	9.9	1.1	55.0	1.4	9.9	4.1	0.3	81.7	86.4	168.1
1986	8.6	4.4	59.5	1.3	7.3	8.2	1.1	90.4	120.4	210.8
1987	10.6	2.4	80.2	2.3	18.0	16.5	2.4	132.4	100.0	232.4
1988	13.2	3.2	101.9	2.9	12.3	10.6	1.9	146.0	97.0	243.0
1989	12.4	2.5	97.7	2.0	8.3	12.0	2.0	136.9	83.3	220.2
1990	16.2	9.1	103.7	3.5	7.6	9.3	2.0	151.4	99.4	250.8
1991	11.7	4.1	90.9	3.7	8.9	8.3	2.6	130.2	59.7	189.9
1992	5.1	4.1	65.2	9.2	10.4	5.6	2.4	102.0	89.8	191.8
1993	2.1	1.4	60.8	6.4	9.5	6.6	2.9	89.7	111.5	201.2
1994	1.6	1.6	46.4	3.5	3.1	3.0	1.3	60.5	21.0	81.5
1995	0.2	0.0	40.8	2.7	2.2	3.7	0.7	50.3	10.2	60.5
1996	0.9	0.0	33.2	4.2	1.8	1.7	0.6	42.4	51.5	93.9
1997	1.9	0.0	34.3	4.6	1.9	2.2	0.5	45.4	114.1	159.5
1998	2.2	0.1	43.5	4.2	1.1	1.6	0.4	53.1	38.3	91.4
1999	1.9	0.0	52.6	3.4	2.1	1.8	1.0	62.8	38.6	101.4
2000	6.9	0.2	55.8	3.8	1.9	2.2	1.4	72.2	178.6	250.8

1/ Beginning in 1981, catch of lower river stocks based on CWT recoveries or GSI analysis, not timing of catch (Feb.-Mar.) as in 1970-80.

2/ Beginning in 1992, includes Youngs Bay select area fishery. Beginning in 1998, also includes Blind Slough and Tongue Point select area fisheries.

Table 25. Columbia River Winter Season Spring Chinook and Steelhead Commercial Landings (in Thousands), Zones 1-5, January-March 1938-2000.

Year	Spring Chinook 1/		Steelhead 2/	
	Pounds	Numbers	Pounds	Numbers
1938	26.4	1.3	25.0	2.6
1939	72.1	3.6	179.8	18.9
1940	151.8	7.6	122.3	12.9
1941	428.4	21.4	165.1	17.4
1942	213.5	10.7	109.0	11.5
1943	50.8	2.5	93.8	9.9
1944 3/	36.7	1.8	37.0	3.9
1945 3/	144.4	7.2	99.4	10.5
1946	138.6	6.9	64.5	6.8
1947	146.3	7.3	105.6	11.1
1948	150.3	7.5	93.8	9.9
1949	45.8	2.3	56.4	5.9
1950	31.0	1.6	83.4	8.8
1951	70.0	3.5	114.2	12.0
1952	127.5	6.4	78.3	8.2
1953	324.7	16.2	176.9	18.6
1954	83.2	4.2	152.9	16.1
1955	73.0	3.6	115.7	12.2
1956	67.1	3.4	76.5	8.0
1957	40.3	2.0	60.4	6.0
1958	140.6	7.2	58.6	6.6
1959	148.5	7.3	44.1	4.3
1960	82.8	4.6	52.7	6.3
1961	107.3	4.9	97.2	9.6
1962	56.5	2.8	86.8	9.9
1963	106.9	5.4	69.1	7.8
1964	116.8	5.6	47.5	5.4
1965	64.4	3.2	84.3	9.5
1966	83.6	4.1	66.1	8.0
1967	139.3	6.8	82.8	8.4
1968	181.4	8.7	79.1	8.4
1969	168.2	8.6	107.0	12.8
1970	252.9	12.5	38.3	3.6
1971	278.0	13.4	49.3	4.7
1972	331.0	15.8	90.0	8.5
1973	337.5	17.2	26.3	2.1
1974	277.2	13.3	24.6	2.2

Table 25. Continued.

Year	Spring Chinook 1/		Steelhead 2/	
	Pounds	Numbers	Pounds	Numbers
1975	184.8	9.1	--	--
1976	96.1	4.7	--	--
1977	132.5	6.8	--	--
1978	264.7	13.5	--	--
1979	111.8	5.5	--	--
1980	7.5	0.4	--	--
1981	139.7	7.4	--	--
1982	104.2	5.1	--	--
1983	151.1	7.6	--	--
1984	183.0	9.6	--	--
1985	269.2	12.7	--	--
1986 4/	191.4	9.7	--	--
1987 4/	246.0	11.6	--	--
1988	384.3	18.3	--	--
1989	291.9	14.0	--	--
1990	343.8	18.3	--	--
1991	256.0	12.6	--	--
1992	104.6 (3.3)	5.4 (0.3)	--	--
1993	41.9 (12.8)	2.4 (0.9)	--	--
1994	38.5 (2.2)	2.1 (0.2)	--	--
1995	2.9 (2.9)	0.2 (0.2)	--	--
1996	11.3 (9.4)	0.9 (0.8)	--	--
1997	26.2 (24.3)	1.9 (1.8)	--	--
1998	35.5 (35.2)	2.2 (2.2)	--	--
1999	28.3 (28.0)	2.0 (2.0)	--	--
2000	88.1 (78.7)	7.0 (6.5)	--	--

1/ Beginning in 1992, spring chinook landings from the Youngs Bay select area fishery are in parentheses and included in the totals to the left. Beginning in 1998, numbers in parentheses include Youngs Bay, Blind Slough, and Tongue Point select area fisheries.

2/ Prior to 1970 no mesh restrictions were in effect. During 1970-74 a 7-1/4-inch minimum mesh size restriction was in effect to reduce the catch of steelhead. Since 1975, sale of steelhead by non-Indians has been prohibited and an 8-inch minimum mesh size restriction has been in place.

3/ Does not include landings during a special 10-day season (March 21-April 1); 20,300 spring chinook (406,200 lbs) and 5,100 steelhead (48,500 lbs) in 1944, and 28,900 spring chinook (577,600 lbs) and 11,600 steelhead (110,300 lbs) in 1945.

4/ Includes incidental chinook catch during winter sturgeon gill-net seasons; 14,800 lbs and 700 fish in 1986, and 9,300 lbs and 400 fish in 1987.

Table 26. Escapement Indices (in Thousands) for Upriver Spring Chinook Adults, 1960-2000.

Year	Middle	Yakima	Upper Columbia Counts		Snake River Counts			
	Columbia	Basin	Priest Rapids	Washington	Ice Harbor	Uppermost	NE Oregon	Idaho
	Redds 1/	Redds 2/	Dam	Redds 3/	Dam 4/	Dam 5/	Redds 6/	Redds 7/
1960	--	0.3	7.2	1.1	--	--	--	3.4
1961	--	0.3	7.1	0.4	--	--	--	5.8
1962	--	0.2	6.3	1.1	--	--	--	4.2
1963	--	0.2	4.4	0.8	--	--	--	3.8
1964	--	0.1	9.7	1.5	22.9	22.9	1.1	4.4
1965	--	0.1	3.8	1.1	11.1	11.1	0.8	2.4
1966	--	0.1	11.9	2.3	41.7	41.7	1.2	4.0
1967	--	0.2	8.5	1.2	32.7	32.7	1.0	4.6
1968	--	0.1	9.5	1.4	39.7	39.7	1.2	4.3
1969	--	0.4	7.3	0.8	48.5	42.0	1.3	2.1
1970	0.9	0.1	5.1	0.9	44.9	38.0	1.2	2.8
1971	0.7	0.1	5.0	0.7	28.9	21.8	1.2	2.2
1972	0.8	0.2	8.4	0.9	47.2	38.5	1.0	3.0
1973	1.3	0.1	9.0	1.7	58.4	52.8	1.3	3.3
1974	0.6	0.1	10.9	0.7	18.0	15.5	0.7	1.7
1975	1.4	0.1	7.7	1.1	20.2	16.1	0.4	2.2
1976	1.4	0.1	11.5	0.7	20.4	15.9	0.5	1.0
1977	1.2	0.1	20.6	1.0	42.4	36.2	0.4	1.7
1978	1.2	0.4	21.2	1.4	49.0	40.7	0.9	4.5
1979	0.8	0.2	7.4	0.3	8.5	6.8	0.2	0.7
1980	0.3	0.5	8.5	0.4	8.3	5.5	0.2	0.1
1981	0.5	0.5	14.5	0.5	15.6	13.1	0.2	0.8
1982	0.8	0.6	8.7	0.5	14.3	12.4	0.4	0.3
1983	0.8	0.4	10.4	0.8	12.1	9.5	0.3	0.5
1984	0.7	0.9	12.1	0.7	8.1	6.5	0.3	0.3
1985	0.8	1.4	24.1	1.1	31.3	25.2	0.4	0.6
1986	1.1	3.1	21.3	0.7	38.1	31.7	0.4	0.7
1987	1.6	1.7	18.5	0.9	31.3	28.8	0.6	0.8
1988	1.1	1.1	13.1	0.9	33.3	29.5	0.7	1.3
1989	1.0	1.5	11.7	0.8	15.4	13.0	0.1	0.3

Table 26 Continued.

Year	Middle Columbia Redds 1/	Yakima Basin Redds 2/	Upper Columbia Counts		Snake River Counts			
			Priest Rapids Dam	Washington Redds 3/	Ice Harbor Dam 4/	Uppermost Dam 5/	NE Oregon Redds 6/	Idaho Redds 7/
1990	1.1	1.2	12.2	0.6	20.5	17.3	0.2	0.4
1991	0.5	1.1	7.7	0.3	10.2	6.6	0.2	0.3
1992	0.9	1.7	19.6	0.7	25.5	21.4	0.3	0.3
1993	1.1	1.2	29.3	0.8	24.7	21.0	0.6	0.7
1994	0.7	0.6	3.1	0.1	3.4	3.1	0.1	0.1
1995	0.2	0.2	1.1	<0.1	1.5	1.1	<0.1	<0.1
1996	1.1	1.0	2.4	<0.1	6.0	4.2	0.2	0.1
1997	0.9	0.8	6.8	0.4	41.4	33.9	0.3	0.3
1998	0.2	0.5	4.1	0.1	12.4	9.9	0.1	0.5
1999	0.5	0.4	4.1	0.1	5.4	3.3	0.2	0.1
2000	2.1	4.5	19.1	0.7	38.2	33.8	0.3	0.5

1/ Counts from 11 streams in the Deschutes and John Day river basins.

2/ Counts from 8 streams in the Yakima River basin. Beginning in 1997 natural escapement was affected by removal of adults at Roza Dam for Cle Elum Hatchery broodstock.

3/ Counts from 11 streams in Wenatchee, Entiat, and Methow drainages. Data for 1960-86 are peak index redd counts and data for 1987-present are cumulative redd count totals within index areas.

4/ Ice Harbor is the first Snake River dam where fish passage is enumerated.

5/ Uppermost dam is Ice Harbor (1964-68), Lower Monumental (1969), Little Goose (1970-74), and Lower Granite thereafter.

6/ Based on counts in historic index areas. Prior to 1996 counts were from 12 streams in the Grande Ronde and Imnaha River systems and 11 streams thereafter. Surveys on Sheep Creek (Grande Ronde Basin) were discontinued in 1996.

7/ Counts from 11 streams in the Salmon River drainage.

Table 27. Estimated Numbers (in Thousands) of Upriver Spring Chinook, Including Jacks, Entering the Columbia River and Escapement, 1938-2000.

Year	Catch by Zone				L. Columbia Sport Catch 1/	Bonneville Count 3/	Upriver Run	Escape- ment
	1-5	6		1-6				
	Comm.1/	Comm.	C&S 2/					
1938	94.7	5.7	--	100.4	--	22.4	117.1	--
1939	75.2	16.4	--	91.6	--	76.7	151.9	60.3
1940	23.6	14.1	--	37.7	--	66.4	90.0	52.3
1941	35.3	25.9	--	61.2	--	72.3	107.6	46.4
1942	36.7	16.0	--	52.7	--	40.5	77.2	24.5
1943	65.8	9.6	--	75.4	--	65.5	131.3	55.9
1944	25.4	12.0	--	37.4	--	30.9	56.3	18.9
1945	39.2	10.5	--	49.7	--	43.5	82.7	33.0
1946	56.3	8.2	--	64.5	--	67.5	123.8	59.3
1947	51.9	14.5	--	66.4	--	133.6	185.5	119.1
1948	84.0	23.7	--	107.7	--	41.7	125.7	18.0
1949	88.0	9.2	--	97.2	--	50.1	138.1	40.9
1950	62.4	12.9	--	75.3	--	57.3	119.7	44.4
1951	91.0	33.9	--	124.9	--	114.9	205.9	81.0
1952	129.7	35.1	--	164.8	--	116.2	245.9	81.1
1953	59.1	29.0	--	88.1	--	170.3	229.4	141.3
1954	54.0	35.8	--	89.8	--	134.8	188.8	99.0
1955	109.4	114.7	--	224.1	--	171.6	281.0	56.9
1956	153.5	10.5	--	164.0	--	63.4	216.9	52.9
1957	116.6	1.2	--	117.8	--	136.4	253.0	135.2
1958	123.3	3.5	--	126.8	--	75.2	198.5	71.7
1959	76.4	0.6	--	77.0	--	61.1	137.5	60.5
1960	64.3	0.5	--	64.8	12.5	69.6	146.4	69.1
1961	62.8	1.6	--	64.4	9.9	98.7	171.4	97.1
1962	108.7	3.7	--	112.4	10.9	91.1	210.7	87.4
1963	71.8	9.2	--	81.0	13.4	75.5	160.7	66.3
1964	55.9	11.3	--	67.2	21.2	91.4	168.5	80.1
1965	73.4	19.7	--	93.1	17.8	84.3	175.5	64.6
1966	38.3	2.3	--	40.6	24.2	112.7	175.2	110.4
1967	33.0	11.8	--	44.8	33.1	84.9	151.0	73.1
1968	13.1	16.0	--	29.1	21.2	99.2	133.5	83.2
1969	30.7	33.0	--	63.7	12.2	173.6	216.5	140.6
1970	31.4	14.0	--	45.4	28.8	111.0	171.2	97.0
1971	22.6	12.7	--	35.3	19.9	125.5	168.0	112.8
1972	69.9	42.8	--	112.7	24.4	186.1	280.4	143.3
1973	60.5	34.2	--	94.7	30.3	142.1	232.9	107.9
1974	8.4	17.5	--	25.9	14.0	86.1	108.5	68.6
1975	0.1	0.1	--	0.2	0.0	<104.1	<104.2	<104.0
1976	0.0	0.4	--	0.4	0.0	78.3	78.3	77.9
1977	9.3	17.2	1.8	28.3	14.8	119.5	143.6	100.5
1978	0.0	2.6	4.9	7.5	0.1	128.9	129.0	121.4
1979	0.0	0.5	1.6	2.1	0.0	51.5	51.5	49.4

Table 27. Continued.

Year	Catch by Zone				L. Columbia Sport Catch 1/	Bonneville Count 3/	Upriver Run	Escape- ment
	1-5		6					
	Comm. 1/	Comm.	C&S 2/	1-6				
1980	0.0	0.0	1.8	1.8	0.0	<61.0	<61.0	<59.2
1981	0.6	1.6	1.8	4.0	0.2	<65.0	<65.8	<61.6
1982	0.5	3.3	2.0	5.8	0.6	76.0	77.1	70.7
1983	2.2	<0.1	2.5	4.7	0.6	56.8	59.6	54.3
1984	1.4	0.1	3.4	4.9	0.3	51.1	52.8	47.6
1985	2.8	0.1	3.0	5.9	0.4	91.0	94.2	87.9
1986	1.1	0.4	7.1	8.6	1.4	123.0	125.5	115.5
1987	1.0	0.3	6.4	7.7	0.4	101.8	103.2	95.1
1988	5.1	0.2	6.8	12.1	1.4	94.7	101.2	87.7
1989	1.5	0.1	6.6	8.2	0.5	87.3	89.3	80.6
1990	2.1	<0.1	6.9	9.0	3.1	96.3	101.5	89.4
1991	0.9	<0.1	3.9	4.8	1.6	61.2	63.6	57.3
1992	0.2	<0.1	5.7	6.0	1.2	90.6	92.0	84.8
1993	0.2	0.0	7.3	7.5	0.4	112.2	112.8	104.9
1994	0.4	<0.1	1.1	1.5	0.4	20.6	21.4	19.4
1995	0.0	<0.1	0.6	0.6	0.0	12.6	12.6	11.9
1996	<0.1	0.0	2.8	2.8	0.0	<56.2	<56.2	<53.4
1997	<0.1	<0.1	8.3	8.3	<0.1	115.0	115.0	106.7
1998	<0.1	<0.1	2.2	2.2	0.0	39.1	39.1	36.9
1999	<0.1	<0.1	2.0	2.0	0.0	47.3	47.3	45.3
2000	0.1	1.4	10.1	11.6	0.1	199.6	199.8	188.1

1/ Catch listed for Zones 1-5 and lower Columbia sport based on timing of catch (April and May) during 1938-80 and CWT recoveries or GSI analysis beginning in 1981. Sport catch for 1960-63 includes an estimate for Washington anglers based on the Oregon and Washington catch proportion for 1964-69. Beginning in 1992, includes Youngs Bay select area fishery. Beginning in 1998, includes Blind Slough and Tongue Point select area fisheries.

2/ Beginning in 1982, ceremonial and subsistence gill-net catch numbers include dip-net catch.

3/ Partial count in 1938 since counting began on May 7. Recorded count corrected for fallback in 1974, 1976, and 1978. Fallback can be significant in years with large spill: these conditions were observed in 1975, 1980-81, and 1996-97 but fallback estimates are not available.

Table 28. Estimated Numbers (in Thousands) of Upriver Spring Chinook Adults Entering the Columbia River and Escapement, 1960-2000.

Year	Catch by Zone				L. Columbia Sport Catch 1/	Bonneville Count 3/	Upriver Run	Escape- ment
	1-5	6		1-6				
	Comm. 1/	Comm.	C&S 2/					
1960	64.3	0.5	--	64.8	12.5	66.1	142.9	65.6
1961	56.5	1.6	--	58.1	9.9	92.8	159.2	91.2
1962	105.4	3.7	--	109.1	10.9	87.5	203.8	83.8
1963	67.5	9.2	--	76.7	13.4	69.9	150.8	60.7
1964	53.7	11.3	--	65.0	21.2	88.5	163.4	77.2
1965	70.5	19.7	--	90.2	17.8	76.4	164.7	56.7
1966	36.8	2.3	--	39.1	24.2	106.3	167.3	104.0
1967	31.7	11.8	--	43.5	33.1	77.6	142.4	65.8
1968	12.4	16.0	--	28.4	21.2	90.3	123.9	74.3
1969	30.1	32.7	--	62.8	10.0	159.9	200.0	127.2
1970	30.8	13.7	--	44.5	26.4	103.1	160.3	89.4
1971	21.5	12.7	--	34.2	15.5	109.5	146.5	96.8
1972	68.5	41.9	--	110.4	22.7	178.3	269.5	136.4
1973	58.7	34.2	--	92.9	29.7	135.4	223.8	101.2
1974	8.2	17.5	--	25.7	12.2	79.4	99.8	61.9
1975	0.1	0.1	--	0.2	0.0	<97.9	<98.0	<97.8
1976	0.0	0.4	--	0.4	0.0	63.9	63.9	63.5
1977	8.6	17.0	1.8	27.4	14.2	115.6	138.4	96.8
1978	0.0	2.6	4.9	7.5	0.0	127.0	127.0	119.5
1979	0.0	0.5	1.6	2.1	0.0	48.6	48.6	46.5
1980	0.0	<0.1	1.8	1.8	0.0	<53.1	<53.1	<51.3
1981	0.6	1.6	1.8	4.0	0.2	<62.8	<63.6	<59.4
1982	0.5	3.3	2.0	5.8	0.6	70.0	71.1	64.7
1983	2.2	<0.1	2.5	4.7	0.6	54.9	57.7	52.4
1984	1.4	0.1	3.4	4.9	0.3	46.8	48.5	43.3
1985	2.8	0.1	3.0	5.9	0.4	83.2	86.4	80.1
1986	1.1	0.3	7.1	8.5	1.3	118.1	120.5	110.7
1987	1.0	0.3	6.4	7.7	0.4	98.6	100.0	91.9
1988	5.1	0.2	6.8	12.1	1.4	90.5	97.0	83.5
1989	1.5	0.1	6.6	8.2	0.5	81.3	83.3	74.6
1990	2.1	<0.1	6.9	9.0	3.1	94.2	99.4	87.3
1991	0.9	<0.1	3.9	4.8	1.5	57.3	59.7	53.4
1992	0.2	<0.1	5.7	6.0	1.2	88.4	89.8	82.7
1993	0.3	0.0	7.2	7.5	0.4	110.8	111.5	103.6
1994	0.4	<0.1	1.1	1.6	0.4	20.2	21.0	19.0
1995	0.0	<0.1	0.6	0.6	0.0	10.2	10.2	9.6
1996	<0.1	0.0	2.8	2.8	0.0	<51.5	<51.5	<48.7
1997	<0.1	<0.1	8.3	8.3	<0.1	114.0	114.1	105.8
1998	<0.1	<0.1	2.2	2.2	0.0	38.3	38.3	36.1
1999	<0.1	<0.1	2.0	2.0	0.0	38.7	38.7	36.7
2000	<0.1	1.4	10.1	11.6	0.1	178.3	178.4	168.2

1/ Catch listed for Zones 1-5 and lower Columbia sport based on timing of catch (April and May) during 1938-80 and CWT recoveries or GSI analysis beginning in 1981. Sport catch for 1960-63 includes an estimate for Washington anglers based on the Oregon and Washington catch proportion for 1964-69. Beginning in 1992, includes Youngs Bay select area fishery. Beginning in 1998, includes Blind Slough and Tongue Point select area fisheries. Beginning in 1998, includes Blind Slough and Tongue Point select area fisheries.

2/ Beginning in 1982, ceremonial and subsistence gill-net catch numbers include dip-net catch.

3/ Partial count in 1938 since counting began on May 7. Recorded count corrected for fallback in 1974, 1976, and 1978. Fallback can be significant in years with large spill: these conditions were observed in 1975, 1980-81, and 1996-97 but fallback estimates are not available.

Table 29. Estimated Numbers of Threatened Snake River Wild Spring Chinook Adults Entering the Columbia River and Escapement, 1979-2000. 1/

Year	Total Run Size 2/	Non-Indian Harvest 3/	Treaty Indian Harvest 4/	Bonn. thru Lower Granite Dam Passage Loss	Tucannon River Return	Lower Granite Dam Escapement
1979	7,785	13	334	4,444	420	2,573
1980	13,123	20	458	8,656	512	3,478
1981	14,934	212	796	5,149	835	7,941
1982	18,742	322	1,397	9,395	512	7,117
1983	14,433	730	632	6,311	579	6,181
1984	7,213	264	515	2,899	337	3,199
1985	8,264	315	297	1,790	618	5,245
1986	12,367	257	762	3,781	672	6,895
1987	12,248	191	817	2,736	621	7,883
1988	14,349	986	1,034	3,329	418	8,581
1989	6,985	177	563	2,857	359	3,029
1990	6,066	322	423	1,611	494	3,216
1991	5,447	238	351	2,395	257	2,206
1992	15,959	258	806	3,354	408	11,134
1993	7,801	68	560	992	309	5,871
1994	2,130	153	110	352	98	1,416
1995	1,822	1	111	947	19	745
1996	3,900	2	211	2,167	161	1,358
1997	4,757	2	345	2,124	160	2,126
1998	9,694	9	553	3,959	85	5,089
1999	3,032	2	154	1,537	3	1,335
2000	12,413	25	782	3,492	66	8,049

1/ Listed as threatened under the Endangered Species Act, May 1992.

2/ Developed by the U.S. v. Oregon Technical Advisory Committee using run reconstruction technique.

3/ Includes commercial, test, and sport fisheries' catches and catch and release mortalities.

4/ Includes commercial, ceremonial, and subsistence fisheries' catches.

Table 30. Columbia River Spring Season Spring Chinook and Steelhead Commercial Landings (in Thousands), Zones 1-5, April and May 1938-2000. 1/

Year	Spring Chinook		Steelhead 2/	
	Pounds	Numbers	Pounds	Numbers
1938	1,610.5	94.7	33.0	3.5
1939	1,278.9	75.2	25.1	2.6
1940	401.2	23.6	13.0	1.4
1941	600.7	35.3	28.1	3.0
1942	624.7	36.7	29.8	3.1
1943	1,118.4	65.8	33.1	3.5
1944	432.0	25.4	23.2	2.4
1945	665.8	39.2	15.4	1.6
1946	957.4	56.3	21.8	2.3
1947	881.9	51.9	15.3	1.6
1948	1,428.5	84.0	23.1	2.4
1949	1,496.8	88.0	11.9	1.2
1950	1,060.2	62.4	11.2	1.2
1951	1,439.2	91.0	21.4	2.3
1952	2,152.2	129.7	20.4	2.4
1953	1,018.0	59.1	19.2	2.0
1954	855.1	54.0	25.0	2.6
1955	1,757.1	109.4	17.7	1.7
1956	2,340.3	153.5	17.6	2.2
1957	1,776.2	116.6	19.9	2.2
1958	2,104.1	123.3	12.0	1.2
1959	1,176.6	76.4	11.6	1.3
1960	866.3	64.3	11.3	1.2
1961	980.4	62.8	15.5	1.6
1962	1,595.0	108.7	22.9	2.5
1963	1,218.9	71.8	20.6	3.0
1964	876.7	55.9	9.9	1.1
1965	1,167.7	73.4	16.8	2.0
1966	577.6	38.3	20.1	2.4
1967	520.1	33.0	15.1	1.6
1968	213.4	13.1	4.5	0.7
1969	514.5	30.7	12.9	1.5
1970	546.4	31.4	8.5	0.9
1971	363.3	22.6	8.0	0.9
1972	1,076.5	69.9	21.1	2.4
1973	928.5	60.5	23.0	2.2
1974	135.1	8.4	1.5	0.2

Table 30. Continued.

Year	Spring Chinook		Steelhead 2/	
	Pounds	Numbers	Pounds	Numbers
1975	--	--	--	--
1976	--	--	--	--
1977	123.8	9.3	--	--
1978	--	--	--	--
1979	--	--	--	--
1980	--	--	--	--
1981	--	--	--	--
1982	--	--	--	--
1983	--	--	--	--
1984	--	--	--	--
1985	--	--	--	--
1986	--	--	--	--
1987	--	--	--	--
1988	--	--	--	--
1989	--	--	--	--
1990	--	--	--	--
1991	--	--	--	--
1992	--	--	--	--
1993	--	--	--	--
1994	--	--	--	--
1995	--	--	--	--
1996	--	--	--	--
1997	--	--	--	--
1998	--	--	--	--
1999	--	--	--	--
2000	--	--	--	--

1/ Since 1975 (except 1977) no spring seasons have been allowed.

2/ Sale of steelhead by non-Indians prohibited since 1975. An average weight of 9.5 pounds was used for 1938-50 to convert steelhead pounds to numbers.

Table 31. Columbia River Winter (February and March) and Spring (April and May) Season Spring Chinook Commercial Landings (in Thousands), Zone 6, 1938-2000.

Year	Winter Season 1/		Spring Season 2/		Total	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1938	--	--	97.6	5.7	97.6	5.7
1939	--	--	278.1	16.4	278.1	16.4
1940	--	--	239.1	14.1	239.1	14.1
1941	--	--	439.7	25.9	439.7	25.9
1942	--	--	271.7	16.0	271.7	16.0
1943	--	--	163.8	9.6	163.8	9.6
1944	--	--	204.4	12.0	204.4	12.0
1945	--	--	178.6	10.5	178.6	10.5
1946	--	--	139.2	8.2	139.2	8.2
1947	--	--	245.9	14.5	245.9	14.5
1948	--	--	403.5	23.7	403.5	23.7
1949	--	--	156.1	9.2	156.1	9.2
1950	--	--	219.8	12.9	219.8	12.9
1951	--	--	472.0	33.9	472.0	33.9
1952	--	--	627.9	35.1	627.9	35.1
1953	--	--	404.6	29.0	404.6	29.0
1954	--	--	458.3	35.8	458.3	35.8
1955	--	--	1,640.7	114.7	1,640.7	114.7
1956	--	--	134.0	10.5	134.0	10.5
1957	--	--	16.6	1.2	16.6	1.2
1958	--	--	49.3	3.5	49.3	3.5
1959	--	--	9.1	0.6	9.1	0.6
1960	--	--	6.3	0.5	6.3	0.5
1961	--	--	22.5	1.6	22.5	1.6
1962	--	--	52.3	3.7	52.3	3.7
1963	--	--	127.9	9.2	127.9	9.2
1964	--	--	159.6	11.3	159.6	11.3
1965	--	--	272.1	19.7	272.1	19.7
1966	--	--	31.4	2.3	31.4	2.3
1967	--	--	172.5	11.8	172.5	11.8
1968	--	--	244.2	16.0	244.2	16.0
1969	--	--	415.2	33.0	415.2	33.0
1970	--	--	210.2	14.0	210.2	14.0
1971	--	--	162.5	12.7	162.5	12.7
1972	--	--	637.9	42.8	637.9	42.8
1973	0.9	0.1	533.9	34.1	534.8	34.2
1974	0.7	<0.1	270.8	17.5	271.5	17.5

Table 31. Continued.

Year	Winter Season 1/		Spring Season 2/		Total	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	0.3	<0.1	--	--	0.3	<0.1
1976	4.3	0.2	--	--	4.3	0.2
1977	41.8	2.8	192.8	14.3	234.6	17.1
1978	48.7	2.3	--	--	48.7	2.3
1979	9.2	0.4	--	--	9.2	0.4
1980	0.4	<0.1	--	--	0.4	<0.1
1981	21.4	1.4	--	--	21.4	1.4
1982	0.7	<0.1	--	--	0.7	<0.1
1983	0.1	<0.1	--	--	0.1	<0.1
1984	0.6	0.1	--	--	0.6	0.1
1985	2.3	0.1	--	--	2.3	0.1
1986	5.5	0.4	--	--	5.5	0.4
1987	5.9	0.3	--	--	5.9	0.3
1988	4.1	0.2	--	--	4.1	0.2
1989	0.0	0.0	--	--	0.0	0.0
1990	0.1	<0.1	--	--	0.1	<0.1
1991	0.1	<0.1	--	--	0.1	<0.1
1992	0.8	<0.1	--	--	0.8	<0.1
1993	0.0	0.0	--	--	0.0	0.0
1994	0.2	<0.1	--	--	0.2	<0.1
1995	0.3	<0.1	--	--	0.3	<0.1
1996	0.0	0.0	--	--	0.0	0.0
1997	0.3	<0.1	--	--	0.3	<0.1
1998	0.0	<0.1	--	--	0.0	<0.1
1999	0.0	<0.1	--	--	0.0	<0.1
2000	0.0	<0.1	15.5	1.3	15.5	1.4

1/ A winter season was allowed in Zone 6 until 1956. No or few chinook were landed during this period.

Beginning in 1973 tribal winter seasons have occurred annually.

2/ Since 1975 (except 1977 and 2000) no spring seasons have been allowed.

Table 32. Columbia River Winter (February and March) and Spring (April and May) Season Steelhead Commercial Landings (in Thousands), Zone 6, 1938-2000.

Year	Winter Season 1/		Spring Season 2/		Total	
	Pounds	Numbers 3/	Pounds	Numbers 3/	Pounds	Numbers 3/
1938	0.0	0.0	9.1	1.4	9.1	1.4
1939	0.0	0.0	3.4	0.5	3.4	0.5
1940	0.3	<0.1	1.2	0.2	1.5	0.2
1941	0.2	<0.1	4.4	0.7	4.6	0.7
1942	0.0	0.0	5.1	0.8	5.1	0.8
1943	0.1	<0.1	2.2	0.3	2.3	0.3
1944	0.2	<0.1	4.6	0.7	4.8	0.7
1945	2.6	0.4	4.2	0.6	6.8	1.0
1946	0.1	<0.1	1.0	0.2	1.1	0.2
1947	0.3	<0.1	0.3	<0.1	0.6	0.1
1948	0.0	0.0	0.8	0.1	0.8	0.1
1949	0.0	0.0	0.4	0.1	0.4	0.1
1950	0.0	0.0	1.1	0.2	1.1	0.2
1951	0.0	0.0	2.6	0.4	2.6	0.4
1952	0.0	0.0	0.9	0.1	0.9	0.1
1953	0.7	0.1	2.5	0.4	3.2	0.5
1954	1.8	0.3	9.3	1.5	11.1	1.8
1955	11.4	1.3	14.4	2.9	25.8	4.2
1956	3.2	0.3	0.1	<0.1	3.3	0.3
1957	0.0	0.0	0.0	0.0	0.0	0.0
1958	0.0	0.0	0.1	<0.1	0.1	<0.1
1959	0.0	0.0	0.0	0.0	0.0	0.0
1960	0.0	0.0	0.1	<0.1	0.1	<0.1
1961	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1962	0.0	0.0	0.0	0.0	0.0	0.0
1963	0.0	0.0	1.1	0.2	1.1	0.2
1964	0.0	0.0	0.4	0.1	0.4	0.1
1965	0.0	0.0	1.2	0.1	1.2	0.1
1966	0.0	0.0	1.2	0.2	1.2	0.2
1967	0.0	0.0	0.4	0.1	0.4	0.1
1968	0.0	0.0	6.4	0.9	6.4	0.9
1969	0.0	0.0	4.7	0.7	4.7	0.7
1970	0.0	0.0	1.4	0.2	1.4	0.2
1971	0.0	0.0	1.7	0.2	1.7	0.2
1972	0.0	0.0	5.9	0.9	5.9	0.9
1973	1.2	0.1	7.2	1.0	8.4	1.1
1974	0.2	<0.1	1.6	0.2	1.8	0.2

Table 32. Continued.

Year	Winter Season 1/		Spring Season 2/		Total	
	Pounds	Numbers 3/	Pounds	Numbers 3/	Pounds	Numbers 3/
1975	2.2	0.3	--	--	2.2	0.3
1976	7.2	0.8	--	--	7.2	0.8
1977	21.7	3.0	5.9	0.8	21.7	3.0
1978	40.4	4.7	--	--	40.4	4.7
1979	22.9	3.3	--	--	22.9	3.3
1980	19.4	2.6	--	--	19.4	2.6
1981	42.7	4.9	--	--	42.7	4.9
1982	34.4	4.1	--	--	34.4	4.1
1983	31.2	3.2	--	--	31.2	3.2
1984	20.8	3.0	--	--	20.8	3.0
1985	53.0	5.4	--	--	53.0	5.4
1986	62.7	7.8	--	--	62.7	7.8
1987	58.3	7.3	--	--	58.3	7.3
1988	94.6	10.8	--	--	94.6	10.8
1989	74.6	9.5	--	--	74.6	9.5
1990	32.1	3.5	--	--	32.1	3.5
1991	20.7	2.1	--	--	20.7	2.1
1992	28.0	4.0	--	--	28.0	4.0
1993	21.5	2.4	--	--	21.5	2.4
1994	18.8	2.1	--	--	18.8	2.1
1995	19.1	2.1	--	--	19.1	2.1
1996	0.8	0.1	--	--	0.8	0.1
1997	2.3	0.2	--	--	2.3	0.2
1998	1.8	0.2	--	--	1.8	0.2
1999	0.9	0.1	--	--	0.9	0.1
2000	0.0	0.0	--	--	0.0	0.0

1/ A winter season was allowed in Zone 6 until 1956. Beginning in 1973 tribal winter seasons have occurred annually.

2/ Since 1975 (except 1977) no spring seasons have been allowed.

3/ Numbers of fish during 1938-50 are calculated using an average weight of 6.5 lbs based on 1951-56 sampling.

Table 33. Estimated Numbers (in Thousands) of Upriver Summer Chinook, Including Jacks, Entering the Columbia River and Escapement, 1938-2000.

Year	Catch by Zone				L. Columbia Sport Catch (June-July)	Bonneville Count 2/	Upriver Run	Escape-ment
	1-5	6		1-6				
	Comm.	Comm.	C&S 1/					
1938	107.9	3.4	--	111.3	--	14.8	122.7	11.4
1939	168.4	3.9	--	172.3	--	23.4	191.8	19.5
1940	90.7	6.2	--	96.9	--	22.0	112.7	15.8
1941	90.1	16.5	--	106.6	--	16.4	106.5	0.0
1942	70.2	5.4	--	75.6	--	24.6	94.8	19.2
1943	43.5	2.0	--	45.5	--	13.5	57.0	11.5
1944	54.5	8.6	--	63.1	--	12.6	67.1	4.0
1945	25.0	1.6	--	26.6	--	27.6	52.6	26.0
1946	20.8	4.6	--	25.4	--	51.2	72.0	46.6
1947	47.4	4.7	--	52.1	--	38.9	86.3	34.2
1948	19.7	28.2	--	47.9	--	67.2	86.9	39.0
1949	11.1	9.0	--	20.1	--	46.7	57.8	37.7
1950	19.7	4.1	--	23.8	--	49.6	69.3	45.5
1951	37.1	4.4	--	41.5	--	79.3	116.4	74.9
1952	30.2	5.7	--	35.9	--	84.3	114.5	78.6
1953	37.2	1.4	--	38.6	--	57.8	95.0	56.4
1954	35.4	0.6	--	36.0	--	79.4	114.8	78.8
1955	64.7	7.4	--	72.1	--	82.9	147.6	75.5
1956	94.0	9.0	--	103.0	--	101.2	195.2	92.2
1957	72.0	0.3	--	72.3	--	135.0	207.0	134.7
1958	85.6	4.7	--	90.3	--	101.9	187.5	97.2
1959	80.8	0.4	--	81.2	--	89.0	169.8	88.6
1960	57.4	0.3	--	57.7	--	85.2	142.6	84.9
1961	62.7	0.2	--	62.9	--	66.5	129.2	66.3
1962	30.5	1.2	--	31.7	--	77.5	108.0	76.3
1963	36.0	4.1	--	40.1	--	64.0	100.0	59.9
1964	10.6	6.9	--	17.5	5.9	80.5	97.0	73.6
1965	0.0	6.9	--	6.9	6.1	76.0	82.1	69.1
1966	0.0	1.1	--	1.1	2.8	72.0	74.8	70.9
1967	0.7	9.5	--	10.2	4.3	95.7	100.7	86.2
1968	1.4	2.1	--	3.5	5.1	82.9	89.4	80.8
1969	1.6	9.4	--	11.0	2.4	102.2	106.2	92.8
1970	3.1	4.0	--	7.1	4.3	65.5	72.9	61.5
1971	4.5	5.8	--	10.3	7.1	77.9	89.5	72.1
1972	3.2	4.4	--	7.6	3.5	70.8	77.5	66.4
1973	1.2	2.0	--	3.2	2.3	45.4	48.9	43.4
1974	0.0	0.1	--	0.1	0.0	34.0	34.0	33.9
1975	0.0	0.0	--	0.0	0.0	<44.4	<44.4	<44.4
1976	<0.1	<0.1	--	0.1	0.0	42.1	42.1	42.0
1977	0.2	<0.1	0.8	1.0	0.2	41.0	41.4	40.2
1978	0.2	0.1	0.8	1.1	0.4	43.0	43.6	42.1
1979	0.1	0.0	1.0	1.1	0.2	34.2	34.5	33.2

Table 33. Continued.

Year	Catch by Zone				L. Columbia Sport Catch (June-July)	Bonneville Count 2/	Upriver Run	Escape- ment
	1-5 Comm.	6		1-6				
		Comm.	C&S 1/					
1980	0.0	0.1	1.1	1.2	0.1	31.1	31.2	29.9
1981	0.0	<0.1	1.3	1.3	0.2	26.9	27.1	25.6
1982	0.0	<0.1	1.3	1.3	0.1	26.6	26.7	25.3
1983	0.0	0.0	0.3	0.3	0.2	23.5	23.7	23.2
1984	<0.1	0.1	0.3	0.4	0.3	28.4	28.7	28.0
1985	0.1	1.4	<0.1	1.5	0.3	29.9	30.3	28.5
1986	0.2	0.7	0.3	1.2	0.2	31.0	31.4	30.0
1987	0.5	1.4	0.3	2.2	0.1	37.7	38.3	36.0
1988	0.1	1.5	0.0	1.6	0.1	36.5	36.7	35.0
1989	0.0	0.0	0.1	0.1	0.1	33.0	33.1	32.9
1990	0.0	0.0	<0.1	<0.1	0.1	28.0	28.1	28.0
1991	0.0	0.0	0.1	0.1	0.1	22.0	22.1	21.9
1992	0.0	0.0	0.1	0.1	0.0	19.2	19.2	19.1
1993	0.0	0.0	0.4	0.4	0.0	23.6	23.6	23.2
1994	0.0	0.0	0.2	0.2	0.0	19.5	19.5	19.3
1995	0.0	0.0	0.4	0.4	0.0	17.1	17.1	16.7
1996	0.0	0.0	0.5	0.5	0.0	18.0	18.0	17.5
1997	0.0	0.0	0.3	0.3	0.0	29.9	29.9	29.6
1998	0.0	0.0	0.4	0.4	0.0	24.1	24.1	23.7
1999	0.1	0.0	0.4	0.5	0.0	30.2	30.3	29.9
2000	0.0	0.0	0.3	0.3	0.2	44.2	44.4	43.9

1/ Beginning in 1982, ceremonial and subsistence gill-net catch numbers include dip-net catch.

2/ Recorded count corrected for fallback in 1974, 1976, and 1978. Fallback occurred in 1975, but was not

Table 34. Estimated Numbers (in Thousands) of Upriver Summer Chinook Adults Entering the Columbia River and Escapement, 1960-2000.

Year	Catch by Zone			1-6	L. Columbia Sport Catch (June-July)	Bonneville Count 3/	Upriver Run	Escapement
	1-5 Comm.	6						
		Comm. 1/	C&S 2/					
1960	44.8	0.3	--	45.1	--	80.9	125.7	80.6
1961	47.7	0.2	--	47.9	--	59.7	107.4	59.5
1962	25.3	1.2	--	26.5	--	72.3	97.6	71.1
1963	24.1	4.1	--	28.2	--	56.8	80.9	52.7
1964	9.9	6.9	--	16.8	5.9	72.8	88.6	65.9
1965	0.0	6.9	--	6.9	6.1	63.5	69.6	56.6
1966	0.0	1.1	--	1.1	2.8	61.4	64.2	60.3
1967	0.4	9.5	--	9.9	4.3	81.1	85.8	71.6
1968	0.4	2.1	--	2.5	5.1	63.8	69.3	61.7
1969	0.8	8.1	--	8.9	0.7	88.7	90.2	80.6
1970	1.5	4.0	--	5.5	1.8	51.9	55.2	47.9
1971	2.3	5.2	--	7.5	3.3	66.3	71.9	61.1
1972	2.2	4.1	--	6.3	2.0	63.6	67.8	59.5
1973	0.8	1.8	--	2.6	1.5	35.3	37.6	33.5
1974	0.0	0.1	--	0.1	0.0	28.9	28.9	28.8
1975	0.0	0.0	--	0.0	0.0	<33.0	<33.0	<33.0
1976	<0.1	<0.1	--	0.1	0.0	26.7	26.7	26.6
1977	0.2	<0.1	0.8	1.0	0.0	34.1	34.3	33.3
1978	0.2	0.1	0.8	1.1	0.0	38.5	38.7	37.6
1979	0.1	0.0	1.0	1.1	0.0	27.7	27.8	26.7
1980	0.0	0.1	1.1	1.2	0.0	27.0	27.0	25.8
1981	0.0	<0.1	1.3	1.3	0.0	22.4	22.4	21.1
1982	0.0	0.0	1.3	1.3	0.0	20.1	20.1	18.8
1983	0.0	0.0	0.3	0.3	0.0	18.0	18.0	17.7
1984	0.0	0.0	0.3	0.3	0.0	22.4	22.4	22.1
1985	0.0	0.9	0.1	1.0	0.0	24.2	24.2	23.2
1986	0.0	0.2	0.3	0.5	0.0	26.2	26.2	25.7
1987	0.0	0.9	0.3	1.2	0.0	33.0	33.0	31.8
1988	0.0	1.1	0.0	1.1	0.0	31.3	31.3	30.2
1989	0.0	0.0	0.1	0.1	0.0	28.8	28.8	28.7
1990	0.0	0.0	<0.1	0.0	0.0	25.0	25.0	25.0
1991	0.0	0.0	0.1	0.1	0.0	18.9	18.9	18.8
1992	0.0	0.0	0.1	0.1	0.0	15.1	15.1	15.0
1993	0.0	0.0	0.4	0.4	0.0	22.0	22.0	21.6
1994	0.0	0.0	0.2	0.2	0.0	17.6	17.6	17.4
1995	0.0	0.0	0.4	0.4	0.0	15.0	15.0	14.6
1996	0.0	0.0	0.5	0.5	0.0	16.0	16.0	15.5
1997	0.0	0.0	0.3	0.3	0.0	27.9	27.9	27.6
1998	0.0	0.0	0.4	0.4	0.0	21.4	21.4	21.0
1999	0.0	0.0	0.4	0.4	0.0	26.2	26.2	25.8
2000	0.0	0.0	0.3	0.3	0.0	30.6	30.6	30.3

1/ A small number of jacks are included in Zone 6 catches, 1960-68.

2/ Beginning in 1982, ceremonial and subsistence gill-net catch numbers include dip-net catch.

3/ Recorded count corrected for fallback in 1974, 1976, and 1978. Fallback occurred in 1975, but was not estimated.

Table 35. Escapement Indices (in Thousands) for Upriver Summer Chinook Adults, 1960-2000.

Year	Upper Columbia Counts		Snake River Counts		
	Priest Rapids Dam	Washington Redds 1/	Ice Harbor Dam 2/	Uppermost Dam 3/	Idaho Redds 4/
1960	15.5	0.5	--	--	5.0
1961	12.8	1.0	--	--	2.7
1962	14.5	1.7	--	--	3.1
1963	12.1	1.4	--	--	2.3
1964	15.0	2.3	21.8	21.8	2.8
1965	14.5	1.4	10.8	10.8	1.5
1966	20.8	3.0	12.8	12.8	2.1
1967	16.9	2.6	25.0	25.0	2.2
1968	17.6	2.8	23.3	23.3	1.4
1969	13.1	1.9	28.4	26.3	1.4
1970	13.4	3.0	16.4	16.4	1.1
1971	15.5	2.2	23.5	21.4	1.3
1972	13.4	1.9	21.3	18.6	1.6
1973	12.2	1.7	12.0	10.9	1.4
1974	12.9	1.5	9.7	7.6	0.5
1975	18.9	1.8	7.2	7.6	0.5
1976	17.2	1.6	7.3	7.0	0.5
1977	16.3	2.1	9.5	7.7	0.7
1978	19.2	2.9	10.2	11.6	1.1
1979	20.3	2.6	1.7	2.7	0.2
1980	16.0	2.7	2.3	2.7	0.2
1981	11.6	1.8	3.3	3.3	0.4
1982	8.8	1.4	4.2	4.2	0.3
1983	8.5	0.9	4.3	3.9	0.5
1984	16.2	2.0	5.5	5.4	0.3
1985	15.9	1.7	4.1	5.1	0.6
1986	16.2	2.0	7.0	6.2	0.6
1987	14.1	2.6	6.6	5.9	1.3
1988	13.4	1.9	7.4	6.1	1.3
1989	19.7	2.3	3.5	3.2	0.5

Table 35. Continued.

Year	Upper Columbia Counts		Snake River Counts		
	Priest Rapids Dam	Washington Redds 1/	Ice Harbor Dam 2/	Uppermost Dam 3/	Idaho Redds 4/
1990	15.6	2.5	5.6	5.1	0.6
1991	14.8	2.1	4.7	3.8	0.7
1992	8.5	1.3	4.0	3.0	1.0
1993	16.4	1.9	6.8	7.9	1.3
1994	14.9	2.7	0.9	0.8	0.3
1995	12.2	2.0	0.7	0.7	0.0
1996	11.0	1.5	3.3	2.6	0.3
1997	13.1	2.3	9.2	10.7	0.9
1998	13.4	2.2	5.5	4.4	0.8
1999	20.9	4.3	3.9	3.3	0.4
2000	22.3	NA	4.2	3.9	NA

1/ Aerial counts of redds (or equivalents) in the Wenatchee, Methow, Similkameen, and Okanogan rivers.

2/ Ice Harbor is the first Snake River Dam where fish passage is enumerated.

3/ Uppermost dam is Ice Harbor (1964-68), Lower Monumental (1969), Little Goose (1970-74), and Lower Granite thereafter.

4/ Idaho tributaries are Lower Salmon, Lower Valley, Lower East Fork, Loon Creek, South Fork Salmon, Johnson, and Secesh Lake Creek. NA denotes data not yet available.

Table 36. Estimated Numbers of Threatened Snake River Wild Summer Chinook Adults Entering the Columbia River and Escapement, 1979-2000. 1/

Year	Total Run Size 2/	Non-Indian Harvest 3/	Treaty Indian Harvest 4/	Bonn. thru Lower Granite Dam Passage Loss 5/	Lower Granite Dam Escapement
1979	2,164	23	76	(649)	2,714
1980	3,064	4	134	523	2,404
1981	4,337	4	264	1,330	2,739
1982	5,522	63	351	1,576	3,531
1983	5,078	52	83	1,725	3,219
1984	4,599	9	94	267	4,229
1985	2,636	8	149	(217)	2,696
1986	3,478	29	147	618	2,684
1987	3,342	29	170	1,288	1,855
1988	3,286	18	156	1,305	1,807
1989	3,124	4	11	810	2,299
1990	4,359	7	19	991	3,342
1991	3,550	4	33	546	2,967
1992	533	3	2	88	441
1993	3,516	29	58	(652)	4,082
1994	246	1	3	60	183
1995	496	1	14	138	343
1996	2,717	12	83	706	1,916
1997	5,533	7	62	327	5,137
1998	4,166	7	72	1,175	2,913
1999	2,004	5	33	383	1,584
2000	886	1	8	30	846

1/ Listed as threatened under the Endangered Species Act, May 1992.

2/ Developed by the U.S. v. Oregon Technical Advisory Committee using run reconstruction technique.

3/ Includes commercial and sport fisheries' catches and catch and release mortalities.

4/ Includes commercial, ceremonial, and subsistence fisheries' catches.

5/ Negative passage loss (in parentheses) is likely an artifact of the run reconstruction technique which applies definitive cut-off dates at Columbia and Snake River dams for separating spring, summer, and fall chinook.

Table 37. Columbia River Upriver Summer Chinook Commercial Landings (in Thousands), 1938-2000.

Year	Zones 1-5		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1938	2,157.4	107.9	29.7	3.4	2,187.1	111.3
1939	3,368.8	168.4	33.8	3.9	3,402.6	172.3
1940	1,814.2	90.7	54.1	6.2	1,868.3	96.9
1941	1,801.3	90.1	143.6	16.5	1,944.9	106.6
1942	1,404.6	70.2	47.3	5.4	1,451.9	75.6
1943	870.9	43.5	17.0	2.0	887.9	45.5
1944	1,089.7	54.5	75.0	8.6	1,164.7	63.1
1945	500.5	25.0	13.9	1.6	514.4	26.6
1946	416.6	20.8	39.8	4.6	456.4	25.4
1947	948.1	47.4	40.6	4.7	988.7	52.1
1948	393.2	19.7	245.6	28.2	638.8	47.9
1949	221.0	11.1	78.2	9.0	299.2	20.1
1950	394.9	19.7	35.9	4.1	430.8	23.8
1951	586.8	37.1	43.1	4.4	629.9	41.5
1952	549.2	30.2	56.3	5.7	605.5	35.9
1953	606.3	37.2	14.0	1.4	620.3	38.6
1954	521.5	35.4	5.5	0.6	527.0	36.0
1955	971.8	64.7	73.0	7.4	1,044.8	72.1
1956	1,505.9	94.0	100.6	9.0	1,606.5	103.0
1957	1,263.7	72.0	3.2	0.3	1,266.9	72.3
1958	1,367.0	85.6	45.7	4.7	1,412.7	90.3
1959	1,209.0	80.8	3.8	0.4	1,212.8	81.2
1960	773.1	57.4	2.5	0.3	775.6	57.7
1961	889.0	62.7	1.6	0.2	890.6	62.9
1962	513.9	30.5	12.4	1.2	526.3	31.7
1963	517.0	36.0	40.6	4.1	557.6	40.1
1964	173.4	10.6	89.9	6.9	263.3	17.5
1965	0.0	0.0	110.8	6.9	110.8	6.9
1966	0.0	0.0	18.3	1.1	18.3	1.1
1967	9.7	0.7	160.5	9.5	170.2	10.2
1968	9.8	1.4	21.0	2.1	30.8	3.5
1969	17.2	1.6	130.5	9.4	147.7	11.0
1970	33.7	3.1	56.3	4.0	90.0	7.1
1971	52.6	4.5	85.2	5.8	137.8	10.3
1972	42.4	3.2	69.4	4.4	111.8	7.6
1973	16.9	1.2	34.1	2.0	51.0	3.2
1974	0.0	0.0	2.0	0.1	2.0	0.1

Table 37. Continued.

Year	Zones 1-5		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.9	<0.1	0.6	<0.1	1.5	0.1
1977	2.4	0.2	0.5	<0.1	2.9	0.2
1978	5.0	0.2	1.5	0.1	6.5	0.3
1979	1.1	0.1	0.1	0.0	1.2	0.1
1980	0.0	0.0	1.0	0.1	1.0	0.1
1981	0.0	0.0	0.3	<0.1	0.3	<0.1
1982	0.0	0.0	0.7	<0.1	0.7	<0.1
1983	0.0	0.0	0.0	0.0	0.0	0.0
1984	<0.1	<0.1	0.5	0.1	0.5	0.1
1985	0.3	0.1	13.7	1.4	14.0	1.5
1986	2.1	0.2	7.2	0.7	9.3	0.9
1987	2.2	0.5	18.4	1.4	20.6	1.9
1988	0.6	0.1	22.8	1.5	23.4	1.6
1989	0.0	0.0	0.0	0.0	0.0	0.0
1990	0.0	0.0	0.0	0.0	0.0	0.0
1991	0.0	0.0	0.0	0.0	0.0	0.0
1992	0.0	0.0	0.0	0.0	0.0	0.0
1993	0.0	0.0	0.0	0.0	0.0	0.0
1994	0.0	0.0	0.0	0.0	0.0	0.0
1995	0.0	0.0	0.0	0.0	0.0	0.0
1996	0.0	0.0	0.0	0.0	0.0	0.0
1997	0.0	0.0	0.0	0.0	0.0	0.0
1998	0.0	0.0	0.0	0.0	0.0	0.0
1999	0.0	0.0	0.0	0.0	0.0	0.0
2000	0.0	0.0	0.0	0.0	0.0	0.0

Table 38. Estimated Numbers (in Thousands) of Upriver Fall Chinook, Including Jacks, Entering the Columbia River and Escapement, 1938-2000.

Year	Commercial Catch by Zone			L. Columbia Sport Catch 3/	Bonneville Dam		Upriver Run 5/	Escapement 6/
	1-5 1/	6 2/	1-6		Count	Trap 4/		
1938	281.5	77.2	358.7	--	234.7	0.0	516.2	157.5
1939	293.8	59.1	352.9	--	186.1	0.0	479.9	127.0
1940	254.6	103.2	357.8	--	303.2	0.0	557.8	200.0
1941	305.2	187.8	493.0	--	372.7	0.0	677.9	184.9
1942	290.6	162.7	453.3	--	336.8	0.0	627.4	174.1
1943	213.1	93.5	306.6	--	234.1	0.0	447.2	140.6
1944	398.5	79.2	477.7	--	197.3	0.0	595.8	118.1
1945	339.5	59.3	398.8	--	226.4	0.0	565.9	167.1
1946	342.2	124.6	466.8	--	327.3	0.0	669.5	202.7
1947	452.7	156.3	609.0	--	308.0	0.0	760.7	151.7
1948	370.9	149.9	520.8	--	310.6	0.0	681.5	160.7
1949	265.5	69.5	335.0	--	180.9	0.0	446.4	111.4
1950	218.1	95.8	313.9	--	250.5	0.0	468.6	154.7
1951	195.1	57.1	252.2	--	137.6	0.0	332.7	80.5
1952	21.9	77.2	99.1	--	220.4	0.0	242.3	143.2
1953	108.6	49.3	157.9	--	104.4	0.0	213.0	55.1
1954	85.4	44.0	129.4	--	106.8	0.0	192.2	62.8
1955	126.6	29.7	156.3	--	105.3	0.0	231.9	75.6
1956	162.2	38.2	200.4	--	136.3	0.0	298.5	98.1
1957	120.4	2.2	122.6	--	131.8	0.0	252.2	129.6
1958	78.9	3.5	82.4	--	249.3	0.0	328.2	245.8
1959	78.9	1.2	80.1	--	194.9	0.0	273.8	193.7
1960	128.7	1.6	130.3	--	101.3	0.0	230.0	99.7
1961	89.6	5.7	95.3	--	116.8	0.0	206.4	111.1
1962	127.2	5.0	132.2	--	118.0	0.0	245.2	113.0
1963	67.6	23.5	91.1	--	139.1	0.0	206.7	115.6
1964	107.3	24.5	131.8	--	172.5	0.0	279.8	148.0
1965	146.2	29.0	175.2	--	157.7	0.0	303.9	128.7
1966	112.4	9.0	121.4	--	155.4	0.0	267.8	146.4
1967	121.9	42.9	164.8	--	185.6	0.0	307.5	142.7
1968	50.6	29.1	79.7	--	159.2	0.0	209.8	130.1
1969	108.0	48.3	156.3	0.7	231.8	0.0	340.5	183.5
1970	149.6	39.1	188.7	0.8	208.9	0.0	359.3	169.8
1971	93.8	56.5	150.3	0.2	202.3	0.0	296.3	145.8
1972	96.3	42.9	139.2	1.0	137.5	0.0	234.8	94.6
1973	105.4	67.9	173.3	1.1	211.2	0.0	317.7	143.3
1974	52.2	54.9	107.1	0.8	186.3	0.0	239.3	131.4
1975	95.9	140.6	236.5	0.7	277.1	0.0	373.7	136.5
1976	33.4	135.0	168.4	0.7	325.3	0.0	359.4	190.3
1977	69.2	55.2	124.4	0.3	206.1	0.6	276.2	150.9
1978	39.7	63.0	102.7	0.6	200.4	0.7	241.4	137.4
1979	28.4	62.4	90.8	0.9	190.7	0.7	220.7	128.3

Table 38 Continued.

Year	Commercial Catch by Zone			L. Columbia Sport Catch 3/	Bonneville Dam		Upriver Run 5/	Escapement 6/
	1-5 1/	6 2/	1-6		Count	Trap 4/		
1980	38.4	33.9	72.3	0.8	153.4	1.4	194.0	119.5
1981	6.7	54.9	61.5	0.6	193.7	0.7	201.7	138.9
1982	40.6	54.9	95.5	0.5	220.2	2.4	263.7	165.3
1983	8.1	24.5	32.6	0.8	164.2	3.5	176.6	139.7
1984	30.0	53.3	83.3	5.7	244.9	3.7	284.3	191.6
1985	35.8	75.5	111.3	6.4	343.0	2.9	388.1	267.5
1986	67.5	106.6	174.1	9.4	416.8	4.7	498.4	310.2
1987	117.0	139.6	256.6	14.4	408.0	2.3	541.7	268.4
1988	96.9	147.8	244.7	13.0	362.8	2.9	475.6	215.0
1989	55.2	128.8	183.9	9.7	295.9	1.6	362.4	167.2
1990	24.8	84.4	109.2	1.6	216.7	3.4	246.5	132.3
1991	19.9	52.2	72.1	5.2	191.4	0.7	217.2	139.2
1992	7.0	29.0	36.0	3.7	146.5	0.0	157.2	117.5
1993	6.3	31.5	37.8	3.7	141.9	1.2	153.1	110.4
1994	0.0	29.9	30.0	0.1	203.4	1.9	205.4	173.4
1995	0.1	31.5	31.6	1.9	210.4	0.0	212.4	178.9
1996	6.4	42.4	48.8	5.7	222.5	0.0	234.5	180.0
1997	1.7	40.9	42.6	12.4	238.2	0.0	252.3	197.3
1998	1.6	31.7	33.3	10.6	217.4	1.2	230.8	185.7
1999	2.8	44.7	47.5	13.3	265.6	0.0	281.7	220.9
2000	7.0	42.0	49.0	10.2	248.3	0.0	265.5	206.3

- 1/ Catch listed for Zones 1-5 based on timing of catch (August) during 1938-79 and CWT recoveries beginning in 1980. Zones 1-5 includes Youngs Bay, 1963-present; Big Creek, 1983, 1987-88 and 1996-97; Tongue Pt., 1996-2000; Blind Slough, 1996-2000; Washington terminal, 1980-82; Steamboat Slough, 2000; and Deep River, 1996-97 and 1999-2000 landings. Includes BPH, URB, and PUB stock fish.
- 2/ Total Zone 6 catch which includes Klickitat dip-net-caught fish sold during open main-stem seasons and may also include some stray stocks.
- 3/ Statistical sampling program for lower Columbia sport fishery began in 1969 and catches during 1969-79 occurred in August. Beginning in 1980, catch based on CWT recoveries. Beginning in 1982, lower Columbia sport catch includes catches made in estuary recreational (Buoy 10) fishery.
- 4/ Bright adults were trapped for egg bank programs from 1977-87 and tules were trapped for Spring Creek Hatchery brood stock from 1986-91, 1993 and 1998, and for lower river hatchery use in 1994. May include some stray stocks.
- 5/ Includes non-upriver stocks that stray above Bonneville Dam. Does not include upriver stocks that stray to escapement areas below Bonneville Dam. The upriver run is the Zones 1-5 commercial catch, sport catch, Bonneville Dam count, and trap numbers combined.
- 6/ The escapement is the upriver run minus the commercial catch, sport catch, and Bonneville Dam trap numbers.

Table 39. Estimated Numbers (in Thousands) of Upriver Fall Chinook Adults Entering the Columbia River and Escapement, 1970-2000.

Year	Commercial Catch by Zone			L. Columbia Sport Catch 3/	Bonneville Dam		Upriver Run 5/	Escapement 6/
	1-5 1/	6 2/	1-6		Count	Trap 4/		
1970	142.1	34.8	176.9	0.2	159.7	0.0	302.0	124.9
1971	91.9	50.9	142.8	0.0	152.9	0.0	244.8	102.0
1972	94.4	39.0	133.4	0.3	94.2	0.0	188.9	55.2
1973	101.2	57.0	158.2	0.4	148.1	0.0	249.7	91.1
1974	51.7	51.1	102.8	0.4	125.2	0.0	177.3	74.1
1975	92.1	122.3	214.4	0.2	219.5	0.0	311.8	97.2
1976	31.7	121.5	153.2	0.4	228.7	0.0	260.8	107.2
1977	67.0	46.3	113.3	0.1	132.0	0.6	199.7	85.7
1978	38.9	56.2	95.1	0.2	144.9	0.7	184.7	88.7
1979	28.1	59.9	88.0	0.3	144.0	0.7	173.1	84.1
1980	36.8	32.6	69.4	0.5	127.7	1.4	166.4	95.1
1981	5.8	48.9	54.8	0.6	147.1	0.6	154.1	98.1
1982	40.3	53.6	93.8	0.5	157.8	2.4	201.0	104.3
1983	7.9	22.8	30.7	0.5	113.3	3.5	125.2	90.5
1984	29.6	50.9	80.5	4.9	147.3	3.7	185.5	96.4
1985	34.5	68.3	102.8	2.5	189.0	2.9	228.9	120.7
1986	64.3	102.3	166.6	6.2	226.4	4.7	301.6	124.1
1987	116.3	138.6	254.9	13.6	337.0	2.3	469.2	198.4
1988	96.2	145.7	241.9	11.5	290.0	2.6	400.3	144.3
1989	54.9	128.2	183.1	8.8	263.1	1.5	328.3	134.9
1990	24.5	79.3	103.8	1.4	177.4	3.3	206.6	98.1
1991	19.1	51.1	70.2	5.0	150.2	0.7	175.0	99.1
1992	6.6	28.1	34.8	3.0	116.2	0.0	125.8	88.0
1993	6.2	30.4	36.7	3.0	126.5	1.1	136.8	96.0
1994	0.0	27.9	27.9	0.1	170.4	1.9	172.4	142.5
1995	0.1	29.5	29.6	1.6	164.2	0.0	165.9	134.7
1996	6.3	41.7	48.1	5.5	205.4	0.0	217.2	163.6
1997	1.7	40.5	42.1	11.9	214.7	0.0	228.3	174.3
1998	1.5	28.1	29.6	9.7	181.9	1.2	194.3	153.8
1999	2.7	43.4	46.1	13.1	242.1	0.0	257.9	198.7
2000	6.8	39.9	46.7	8.1	189.6	0.0	204.5	149.7

1/ Catch listed for Zones 1-5 based on timing of catch (August) during 1970-79 and CWT recoveries beginning in 1980. Zones 1-5 includes Youngs Bay, 1970-present; Big Creek, 1983, 1987-88 and 1996-97; Tongue Pt., 1996-2000; Blind Slough, 1996-2000; Washington terminal, 1980-82; Steamboat Slough, 2000; and Deep River, 1996-97 and 1999-2000 landings. Includes BPH, URB, and PUB stock fish.

2/ Total Zone 6 catch which may include some stray stocks.

3/ Lower Columbia sport catch during 1970-79 occurred in August. Beginning in 1980, catch based on CWT recoveries. Beginning in 1982, lower Columbia sport catch includes estuary recreational (Buoy 10) fishery.

4/ Bright adults were trapped for egg bank programs from 1977-87 and tules were trapped for Spring Creek Hatchery brood stock from 1986-91, 1993, and 1998 and for lower river hatcheries use in 1994. May include some stray stocks.

5/ Includes non-upriver stocks that stray above Bonneville Dam. Does not include upriver stocks that stray to escapement areas below Bonneville Dam. The upriver run is the Zones 1-5 commercial catch, sport catch, Bonneville Dam count, and trap numbers combined.

6/ The escapement is the upriver run minus the commercial catch, sport catch, and Bonneville Dam trap numbers.

Table 40. Escapement Indices (in Thousands) for Upriver Fall Chinook Adults, 1960-2000.

Year	Bonn. Pool Hatchery Tule Returns 1/	McNary Dam	Natural Spawning Counts			
			Snake River		Upper Columbia River	
			Ice Harbor Dam 2/	Uppermost Dam 3/	Priest Rapids Dam	Hanford Redds
1960	--	36.6	--	--	9.7	0.3
1961	20.6	29.6	--	--	8.2	0.9
1962	23.5	36.2	--	--	10.3	1.3
1963	24.3	27.1	--	--	4.4	1.3
1964	29.9	40.4	9.1	9.1	8.2	1.5
1965	11.3	41.1	8.2	8.2	9.3	1.8
1966	32.4	51.1	12.8	12.8	10.3	3.1
1967	14.5	42.9	14.0	14.0	7.6	3.3
1968	15.2	49.2	19.5	19.5	7.9	3.6
1969	19.5	55.4	13.6	6.2	6.3	4.3
1970	10.4	43.2	9.0	4.5	6.7	3.8
1971	12.8	49.0	9.3	4.7	8.5	3.6
1972	8.9	37.6	7.5	1.8	4.7	0.9
1973	17.2	46.6	6.7	2.4	4.9	3.0
1974	11.2	34.6	2.4	0.9	5.0	0.7
1975	35.0	29.6	1.9	1.0	4.3	2.7
1976	25.7	28.8	1.1	0.5	5.5	2.0
1977	21.5	37.6	1.2	0.6	4.1	3.3
1978	18.0	27.9	1.1	0.6	4.8	3.1
1979	18.8	31.2	1.2	0.5	4.9	3.0
1980	27.0	29.4	1.1	0.5	6.0	1.5
1981	25.1	21.0	0.8	0.3	3.8	4.9
1982	29.4	31.1	1.6	0.7	8.5	5.0
1983	10.1	48.6	1.8	0.5	7.9	5.3
1984	9.6	60.8	1.6	0.6	7.8	7.3
1985	5.6	93.3	2.0	0.7	11.0	7.6
1986	4.1	113.3	3.1	0.8	18.8	8.3
1987	2.7	154.1	6.8	0.9	34.0	8.6
1988	3.7	114.7	3.8	0.6	21.3	8.5
1989	4.3	96.5	4.6	0.7	14.6	8.8
1990	8.2	57.6	3.5	0.4	6.0	6.5
1991	12.4	46.6	4.5	0.6	4.6	4.9
1992	8.8	51.2	4.6	0.9	4.3	4.9
1993	7.9	54.9	2.8	1.2	7.1	2.9
1994	10.3	85.9	2.1	0.8	11.7	5.6
1995	9.1	68.6	2.7	1.1	13.2	3.1
1996	7.7	73.9	3.8	1.3	12.5	7.6
1997	8.7	67.2	2.8	1.5	11.1	7.6
1998	4.4	63.8	4.2	1.9	9.7	5.4
1999	14.5	78.4	6.5	3.4	29.5	6.1
2000	6.7	67.6	6.5	3.7	38.8	5.5

1/ Beginning in 1980, BPH hatchery escapement based on CWT recoveries. Beginning in 1986, includes BPH stock fish trapped at Bonneville Dam.

2/ Ice Harbor is the first Snake River Dam where fish passage is enumerated.

3/ Uppermost dam is Ice Harbor (1964-68), Lower Monumental (1969), Little Goose (1970-74), and Lower Granite thereafter.

Table 41. Stock Accountability (in Thousands) of Bonneville Pool Hatchery Fall Chinook Adults Entering the Columbia River, 1980-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Natural Spawning Escapement 3/	Total Run Size 4/
	1-5 1/	6	1-6	Col. R. 2/	Tributary		
1980	31.8	23.4	55.1	0.1	0.0	37.7	97.8
1981	3.4	33.1	36.5	0.0	0.0	33.9	86.3
1982	35.7	48.9	84.6	0.3	0.0	35.7	120.7
1983	3.6	7.9	11.5	0.1	0.0	11.7	28.9
1984	5.9	19.2	25.1	2.3	0.0	11.5	47.5
1985	0.1	12.7	12.8	0.2	0.0	9.1	33.2
1986	4.1	5.7	9.8	0.4	0.0	6.3	16.6
1987	1.6	1.7	3.3	1.2	0.0	4.5	9.1
1988	3.2	2.9	6.1	0.3	0.0	5.6	12.0
1989	4.6	12.7	17.2	1.6	0.2	7.7	26.8
1990	1.1	7.4	8.5	0.4	0.0	9.8	18.9
1991	4.3	21.0	25.3	3.2	0.1	16.2	52.4
1992	1.0	9.3	10.3	1.4	0.1	12.2	29.5
1993	0.9	5.1	6.0	0.9	0.1	9.8	16.8
1994	0.0	3.8	3.8	0.0	0.2	13.0	18.5
1995	0.0	15.1	15.1	0.2	0.2	11.9	33.8
1996	1.7	19.0	20.8	0.8	0.1	9.4	33.1
1997	0.0	9.7	9.7	2.6	0.4	13.3	27.4
1998	0.2	5.9	6.1	2.4	0.1	7.1	20.2
1999	0.3	24.5	24.7	2.2	0.4	17.8	50.2
2000	1.1	7.5	8.7	0.4	0.5	10.3	20.5

1/ Includes terminal and select area fisheries.

2/ Includes mainstem sport catch below and above Bonneville Dam. Beginning in 1982, includes catches from the estuary recreational (Buoy 10) fishery.

3/ Includes BPH stock fish trapped at Bonneville Dam for Spring Creek Hatchery, 1986-91, 1993, and 1998 and lower river hatcheries use in 1994. Also includes fish that strayed to Bonneville Hatchery and other escapement areas downstream from Bonneville Dam.

4/ Includes escapement and state conducted test, Treaty Indian subsistence, and all other fisheries. May also include fish counted at Bonneville Dam that were unaccounted for in any subsequent fisheries or escapement.

Table 42: Stock Accountability (in Thousands) of Upriver Bright Fall Chinook Adults Entering the Columbia River, 1980-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Natural Spawning Escapement 3/	Total Run Size 4/
	1-5 1/	6	1-6	Col. R. 2/	Tributary		
1980	5.1	9.0	14.0	0.9	0.0	31.0	76.8
1981	2.4	13.4	15.9	0.7	0.0	26.9	66.6
1982	4.5	2.8	7.4	0.2	0.0	39.8	79.0
1983	4.3	12.2	16.5	0.4	0.3	57.8	86.1
1984	23.7	29.0	52.8	4.2	0.2	64.9	131.4
1985	34.5	54.3	88.8	8.9	0.2	93.6	196.4
1986	58.9	90.1	149.1	10.8	0.2	115.6	281.5
1987	104.3	120.1	224.4	17.6	0.5	151.9	420.6
1988	79.9	119.4	199.3	16.1	0.4	110.4	340.0
1989	42.8	94.1	136.9	12.6	0.3	90.7	261.1
1990	20.8	56.7	77.4	4.8	0.2	53.6	153.4
1991	13.7	23.8	37.5	5.9	0.1	42.5	102.7
1992	5.6	13.4	19.0	4.0	0.0	47.9	81.0
1993	5.3	18.7	24.0	5.3	0.0	59.7	102.9
1994	0.0	20.2	20.2	4.8	0.0	82.8	132.8
1995	0.0	10.5	10.5	5.4	0.0	68.7	106.5
1996	3.7	15.6	19.3	8.9	0.0	75.5	143.2
1997	1.4	24.2	25.6	11.5	0.0	82.0	161.7
1998	0.9	19.0	20.0	8.0	0.2	73.1	142.3
1999	2.2	15.3	17.4	15.2	0.0	78.6	166.1
2000	4.8	27.0	31.8	10.2	0.1	77.3	155.9

1/ Includes terminal and select area fisheries.

2/ Includes mainstem sport catch below and above Bonneville Dam. Beginning in 1982, includes catches from the estuary recreational (Buoy 10) fishery.

3/ Includes URB stock fish trapped at Bonneville Dam, 1982-87. Also includes fish that strayed to escapement areas downstream from McNary Dam (not including the Deschutes River in Oregon).

4/ Includes escapement and state conducted test, treaty Indian subsistence, and all other fisheries. May also include fish counted at Bonneville Dam that were unaccounted for in any subsequent fisheries or escapement.

Table 43. Stock Accountability (in Thousands) of Mid-Columbia Bright Fall Chinook Adults Entering the Columbia River, 1980-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Natural Spawning Escapement 3/	Total Run Size 4/
	1-5 1/	6	1-6	Col. R. 2/	Tributary		
1980	0.3	0.0	0.3	0.0	0.0	0.0	0.3
1981	0.3	1.3	1.6	0.0	0.0	2.8	4.4
1982	0.7	0.9	1.6	0.0	0.0	3.6	8.8
1983	1.1	1.9	3.1	0.1	0.0	6.1	14.4
1984	3.2	1.3	4.5	0.2	0.0	3.5	11.8
1985	1.7	1.1	2.8	0.1	0.0	2.8	6.1
1986	6.5	5.7	12.2	0.4	0.0	4.5	17.4
1987	24.4	15.7	40.1	1.4	0.0	13.5	57.0
1988	37.9	21.1	59.0	2.8	0.0	14.6	78.0
1989	46.2	21.1	67.3	3.5	0.2	19.4	93.3
1990	17.7	14.8	32.5	2.9	0.2	19.9	59.1
1991	9.1	5.6	14.7	0.9	0.2	15.9	35.9
1992	5.5	4.9	10.5	1.6	0.2	16.4	31.1
1993	4.8	6.2	11.1	1.1	0.3	12.2	27.4
1994	1.2	3.7	4.9	0.3	0.6	23.6	33.7
1995	0.1	3.5	3.5	1.9	0.9	21.7	34.1
1996	5.3	6.7	12.0	2.0	1.3	31.5	59.7
1997	3.3	6.6	9.9	4.8	1.7	31.7	58.9
1998	1.1	3.0	4.1	3.7	2.0	19.8	36.8
1999	1.6	3.5	5.1	4.6	1.3	24.5	50.6
2000	3.3	5.3	8.6	2.4	1.1	17.9	36.7

1/ Includes terminal and select area fisheries.

2/ Includes mainstem sport catch below and above Bonneville Dam and catches from the estuary recreational (Buoy 10) fishery.

3/ Includes BUB stock fish that strayed to escapement areas upstream of Bonneville Dam.

4/ Includes escapement and state conducted test, treaty Indian subsistence, and all other fisheries. May also include fish counted at Bonneville Dam that were unaccounted for in any subsequent fisheries or escapement.

Table 44. Stock Accountability (in Thousands) of Snake River Bright Fall Chinook Adults Entering the Columbia River, 1986-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Spawning Escapement 4/	Total Run Size 5/
	1-5 1/	6 2/	1-6	Col. R. 3/	Tributary		
1986	1.6	0.8	2.4	0.2	0.0	2.1	5.7
1987	3.5	5.1	8.6	0.4	0.0	4.2	16.1
1988	1.0	2.3	3.3	0.3	0.0	3.2	7.0
1989	0.4	1.5	1.9	0.2	0.0	2.5	4.9
1990	0.3	1.9	2.2	0.1	0.0	2.3	5.1
1991	0.9	1.4	2.4	0.1	0.0	3.3	6.6
1992	0.1	0.6	0.7	0.2	0.0	3.8	5.3
1993	0.1	1.0	1.1	0.0	0.0	2.7	4.4
1994	0.0	0.4	0.4	0.0	0.0	1.6	2.2
1995	0.0	0.3	0.3	0.0	0.0	2.1	2.8
1996	0.1	0.8	0.9	0.1	0.0	3.4	5.5
1997	0.1	1.4	1.5	0.2	0.0	2.6	5.2
1998	0.0	1.5	1.5	0.4	0.0	5.7	10.2
1999	0.3	4.5	4.8	1.0	0.0	7.1	15.6
2000	0.5	1.3	1.8	0.6	0.0	7.7	12.8

1/ Includes terminal and select area fisheries.

2/ Includes treaty Indian subsistence catches.

3/ Includes mainstem sport catch below and above Bonneville Dam and catches from the estuary recreational (Buoy 10) fishery.

4/ Includes voluntary returns to Lyons Ferry Hatchery, hatchery brood stock trapped at Ice Harbor (thru 1993) and Lower Granite dams (1990-present), escapement into the Palouse and Tucannon rivers, and escapement over Lower Granite Dam.

5/ Includes escapement and state conducted test, treaty Indian subsistence, and all other fisheries. May also include fish counted at Bonneville Dam that were unaccounted for in any subsequent fisheries or escapement. Developed by the U.S. v. Oregon Technical Advisory Committee from Washington Department of Fish and Wildlife's database.

Table 45. Estimated Numbers of Threatened Snake River Wild Fall Chinook Adults Entering the Columbia River and Escapement, 1986-2000. 1/

Year	Total Run Size 2/	Non-Indian Harvest 3/	Treaty Indian Harvest 4/	Bonn. to Lower Granite Dam Passage Loss 5/	Trapped at Ice Harbor Dam 6/	Lower Granite Dam Escapement
1986	3,440	812	1,141	951	87	449
1987	2,295	636	673	554	179	253
1988	4,811	1,290	1,775	973	405	368
1989	2,527	489	956	567	220	295
1990	665	96	258	162	71	78
1991	2,261	362	545	1,036	0	318
1992	1,555	143	267	596	0	549
1993	1,620	130	320	428	0	742
1994	1,055	1	191	457	0	406
1995	1,223	18	214	641	0	350
1996	1,957	108	408	802	0	639
1997	2,048	119	540	592	0	797
1998	864	29	200	328	0	306
1999	2,739	200	631	1,003	0	905
2000	1,977	144	422	555	0	857

1/ Listed as threatened under the Endangered Species Act, May 1992.

2/ Developed by the U.S. v. Oregon Technical Advisory Committee from Washington Department of Fish and Wildlife's database.

3/ Includes commercial, sport, and state conducted test fisheries' catches.

4/ Includes commercial, ceremonial, and subsistence fisheries' catches.

5/ May include fish counted at Bonneville Dam that were unaccounted for in any subsequent fisheries or escapement.

6/ From 1991-93, only marked hatchery fish were trapped. No fish have been trapped since 1993.

Table 46. Columbia River Fall Season Chinook Commercial Landings (in Thousands), August-December 1938-2000. 1/

Year	Zones 1-5 2/		Zone 6 3/		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1938	6,948.9	347.5	1,543.4	77.2	8,492.3	424.7
1939	7,285.0	364.2	1,182.1	59.1	8,467.1	423.3
1940	8,792.7	439.7	2,063.0	103.2	10,855.7	542.9
1941	16,060.8	803.0	3,756.1	187.8	19,816.9	990.8
1942	12,843.8	642.2	3,254.3	162.7	16,098.1	804.9
1943	7,336.2	366.8	1,869.4	93.5	9,205.6	460.3
1944	10,250.0	512.5	1,583.1	79.2	11,833.1	591.7
1945	9,705.1	485.3	1,185.9	59.3	10,891.0	544.6
1946	10,093.2	504.6	2,491.4	124.6	12,584.6	629.2
1947	11,912.4	595.6	3,125.9	156.3	15,038.3	751.9
1948	11,772.1	588.6	2,998.0	149.9	14,770.1	738.5
1949	7,393.7	369.6	1,389.4	69.5	8,783.1	439.1
1950	6,761.2	338.1	1,915.8	95.8	8,677.0	433.9
1951	6,270.3	248.0	1,148.0	57.1	7,418.3	305.1
1952	2,346.5	102.6	1,402.8	77.2	3,749.3	179.8
1953	3,695.5	152.9	866.7	49.3	4,562.2	202.2
1954	2,858.6	125.1	530.5	44.0	3,389.1	169.1
1955	3,667.8	176.2	398.8	29.7	4,066.6	205.9
1956	3,543.0	176.4	487.7	38.2	4,030.7	214.6
1957	2,782.8	144.8	36.1	2.2	2,818.9	147.0
1958	2,672.0	143.9	55.4	3.5	2,727.4	147.4
1959	2,028.1	101.1	19.2	1.2	2,047.3	102.3
1960	2,171.3	136.8	25.7	1.6	2,197.0	138.4
1961	2,067.1	115.7	92.3	5.7	2,159.4	121.4
1962	3,156.8	158.9	80.4	5.0	3,237.2	163.9
1963	1,959.2	99.0	375.6	23.5	2,334.8	122.5
1964	2,671.4	154.5	396.2	24.5	3,067.6	179.0
1965	4,037.4	203.3	490.5	29.0	4,527.9	232.3
1966	2,747.8	146.2	153.4	9.0	2,901.2	155.2
1967	3,284.6	158.8	687.5	42.9	3,972.1	201.7
1968	2,906.2	149.6	501.1	29.1	3,407.3	178.7
1969	3,711.9	186.3	818.3	48.3	4,530.2	234.6
1970	4,671.8	252.4	690.4	39.1	5,362.2	291.5
1971	4,072.0	215.9	953.6	56.5	5,025.6	272.4
1972	2,892.9	139.7	634.5	42.9	3,527.4	182.6
1973	5,552.3	270.7	1,148.3	67.9	6,700.6	338.6
1974	1,974.0	96.9	980.1	55.0	2,954.1	151.9

Table 46. Continued

Year	Zones 1-5 2/		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	3,735.9	173.3	2,665.6	140.5	6,401.5	313.8
1976	2,926.3	148.2	2,555.0	135.0	5,481.3	283.2
1977	3,252.7	167.1	941.8	55.2	4,194.5	222.3
1978	2,164.1	110.1	1,183.6	62.1	3,347.7	172.2
1979	1,920.3	102.5	1,182.1	62.4	3,102.4	164.9
1980	2,335.2	116.0	729.0	33.9	3,064.2	149.9
1981	624.8	31.4	950.8	54.8	1,575.6	86.2
1982	1,830.9	92.4	1,055.0	54.4	2,885.9	146.8
1983	473.4	25.6	413.7	24.5	887.1	50.1
1984	1,028.9	64.8	855.8	53.3	1,884.7	118.1
1985	1,028.8	61.7	1,332.4	75.4	2,361.2	137.1
1986	2,550.7	166.1	1,972.1	106.0	4,522.8	272.1
1987	5,970.9	330.9	2,773.4	138.9	8,744.3	469.8
1988	6,863.4	323.7	3,264.0	145.2	10,127.4	468.9
1989	2,966.0	132.9	2,861.1	128.0	5,827.1	260.9
1990	956.4	45.9	1,795.0	83.8	2,751.4	129.7
1991	738.7	43.1	999.7	51.2	1,738.4	94.3
1992	322.0	18.6	524.9	29.2	846.9	47.8
1993	295.1	17.3	540.8	31.1	835.9	48.4
1994	25.6	1.8	540.2	29.7	565.8	31.5
1995	8.5	0.9	594.5	31.4	603.0	32.2
1996	271.5	17.0	729.0	41.7	1,000.5	58.7
1997	162.8	9.2	737.8	39.6	900.6	48.8
1998	78.1	4.3	550.1	31.3	628.2	35.6
1999	117.0	8.1	739.6	43.8	856.6	51.9
2000	246.9	13.2	737.8	37.5	984.4	50.7

1/ No fishing has occurred in December since 1949. Sale of steelhead prohibited by non-Indians since 1975.

2/ Includes terminal and select area fisheries.

3/ Since 1995 an increasing proportion of treaty Indian commercial landings have been sold to the general public and not licensed fish buyers. General public sales figures are not included here.

Table 47. Minimum Numbers (in Thousands) of Lower River Fall Chinook, Including Jacks, Combined with the Upriver Run, Including Jacks, to Form the Total Fall Chinook Run Entering the Columbia River, 1938-2000.

Year	Lower Columbia River Stocks 1/					Upriver Run	Minimum Run
	Zones 1-5 Comm. Catch 2/	L. Col. R. Sport Catch 3/	Natural Spawners 4/	Hatchery Returns 5/	Total		
1938	66.0	--	--	--	66.0	516.2	582.2
1939	70.4	--	--	--	70.4	479.9	550.3
1940	185.1	--	--	--	185.1	557.8	742.9
1941	497.8	--	--	--	497.8	677.9	1,175.7
1942	351.6	--	--	--	351.6	627.4	979.0
1943	153.7	--	--	--	153.7	447.2	600.9
1944	114.0	--	--	--	114.0	595.8	709.8
1945	145.8	--	--	--	145.8	565.9	711.7
1946	162.4	--	--	--	162.4	669.5	831.9
1947	142.9	--	--	--	142.9	760.7	903.6
1948	217.7	--	--	--	217.7	681.5	899.2
1949	104.1	--	--	--	104.1	446.4	550.5
1950	120.0	--	--	--	120.0	468.6	588.6
1951	52.9	--	--	--	52.9	332.7	385.6
1952	80.7	--	--	--	80.7	242.3	323.0
1953	44.3	--	--	--	44.3	213.0	257.3
1954	39.7	--	--	--	39.7	192.2	231.9
1955	49.6	--	--	--	49.6	231.9	281.5
1956	14.2	--	--	--	14.2	298.5	312.7
1957	24.4	--	--	--	24.4	252.2	276.6
1958	65.0	--	--	--	65.0	328.2	393.2
1959	22.2	--	--	--	22.2	273.8	296.0
1960	8.1	--	--	8.0	16.1	230.0	246.1
1961	26.1	--	5.9	13.9	45.9	206.4	252.3
1962	31.7	--	2.8	10.9	45.4	245.2	290.6
1963	31.4	--	5.2	21.8	58.4	206.7	265.1
1964	47.2	--	10.3	34.9	92.4	279.8	372.2
1965	57.1	--	10.8	27.4	95.3	303.9	399.2
1966	33.8	--	15.2	31.0	80.0	267.8	347.8
1967	36.9	--	12.0	28.6	77.5	307.5	385.0
1968	99.0	--	11.9	25.6	136.5	209.8	346.3
1969	78.3	3.0	7.0	42.2	130.5	340.5	471.0
1970	102.8	8.2	7.6	54.3	172.9	359.3	532.2
1971	122.1	6.3	5.1	58.8	192.3	296.3	488.6
1972	43.4	4.6	11.8	43.7	103.5	234.8	338.3
1973	165.3	3.5	22.2	53.4	244.4	317.7	562.1
1974	44.7	2.7	34.2	36.2	117.8	239.3	357.1
1975	77.4	2.8	33.8	38.2	152.2	373.7	525.9
1976	114.9	4.1	30.2	55.1	204.3	359.4	563.7
1977	97.9	3.7	26.1	45.4	173.1	276.2	449.3
1978	70.3	3.0	17.9	63.0	154.2	241.4	395.6
1979	74.2	1.7	10.3	49.3	135.5	220.7	356.2

Table 47 Continued

Year	Lower Columbia River Stocks 1/				Total	Upriver Run	Minimum Run
	Zones 1-5 Comm. Catch 2/	L. Col. R. Sport Catch 3/	Natural Spawners 4/	Hatchery Returns 5/			
1980	77.6	4.5	39.4	41.4	162.9	194.0	356.9
1981	24.5	8.0	53.3	61.6	147.4	201.7	349.1
1982	51.5	8.0	57.7	57.4	174.6	263.7	438.3
1983	17.4	5.4	50.8	48.7	122.3	176.6	298.9
1984	34.7	13.8	45.2	35.7	129.4	284.3	413.7
1985	25.5	14.1	65.4	54.9	159.9	388.1	548.0
1986	98.0	19.8	46.3	67.6	231.7	498.4	730.1
1987	213.0	39.8	72.4	89.9	415.1	541.7	956.8
1988	225.6	29.0	76.2	62.7	393.5	475.6	869.1
1989	77.2	24.2	75.2	53.5	230.1	362.4	592.5
1990	20.9	13.2	38.9	49.9	122.9	246.5	369.4
1991	23.0	13.6	36.3	42.3	115.2	217.2	332.4
1992	11.9	17.1	37.1	40.1	106.2	157.2	263.4
1993	11.1	11.7	30.1	29.7	82.6	153.1	235.7
1994	1.8	1.9	40.3	46.0	90.0	205.4	295.4
1995	1.0	8.5	29.5	48.7	87.7	212.4	300.1
1996	10.6	7.3	45.0	56.3	119.3	234.5	353.8
1997	7.4	12.5	39.9	40.7	100.5	252.3	352.8
1998	3.1	6.3	24.1	31.3	64.8	230.8	295.6
1999	5.1	8.4	17.3	25.6	56.4	281.7	338.1
2000	6.1	5.2	23.2	24.0	58.5	265.4	323.9

1/ Catch of lower Columbia River stocks based on timing of catch (September-December) prior to 1980 and CWT recoveries beginning in 1980. No commercial fishing has occurred in December since 1949. Currently includes LRH, LRW, BUB, LRB and SAB stock fish.

2/ Includes terminal and select area fisheries.

3/ Beginning in 1980, includes catches made in tributaries. Beginning in 1982, includes catches made in estuary recreational (Buoy 10) fishery.

4/ Prior to 1980, Mayfield Dam (until 1969) and Willamette Falls counts only. Since 1980, natural spawner numbers have been estimated and combined with Willamette Falls count.

5/ Actual hatchery returns (not based on CWT analysis).

Table 48. Minimum Number (in Thousands) of Lower River Fall Chinook Adults, Combined with the Upriver Adult Run, to Form the Total Fall Chinook Adult Run Entering the Columbia River, 1970-2000.

Year	Lower Columbia River Stocks 1/					Upriver Run	Minimum Run
	Zones 1-5 Comm. Catch 2/	L. Col. R. Sport Catch 3/	Natural Spawners 4/	Hatchery Returns 5/	Total		
1970	94.6	3.0	7.5	44.9	150.0	302.0	452.0
1971	119.7	3.8	4.9	55.7	184.1	244.8	428.9
1972	40.4	3.4	11.6	41.2	96.6	188.9	285.5
1973	158.7	2.1	21.9	50.1	232.8	249.7	482.5
1974	43.4	1.7	33.9	34.2	113.2	177.3	290.5
1975	72.8	1.6	32.9	34.8	142.1	311.8	453.9
1976	105.7	1.3	29.3	51.6	187.9	260.8	448.7
1977	92.0	1.6	25.7	42.3	161.6	199.7	361.3
1978	65.4	1.5	17.4	59.4	143.7	184.7	328.4
1979	66.8	0.8	9.9	45.8	123.3	173.1	296.4
1980	75.9	4.3	36.8	37.8	154.8	166.4	321.2
1981	23.3	4.1	48.9	53.5	129.8	154.1	283.9
1982	49.3	5.3	55.2	49.9	159.7	201.0	360.7
1983	17.0	3.8	48.6	46.6	116.0	125.2	241.2
1984	34.2	11.3	41.0	33.5	120.0	185.5	305.5
1985	25.1	7.2	60.3	43.8	136.4	228.9	365.3
1986	93.8	13.5	38.7	51.1	197.1	301.6	498.7
1987	212.0	36.9	67.1	86.5	402.5	469.2	871.7
1988	224.8	27.1	71.9	58.9	382.7	400.3	783.0
1989	76.7	22.8	72.0	50.2	221.7	328.3	550.0
1990	20.5	10.7	36.3	43.5	111.0	206.6	317.6
1991	21.7	11.6	30.3	38.4	102.0	175.0	277.0
1992	11.2	13.1	32.2	35.6	92.1	125.8	217.9
1993	10.8	10.3	28.6	27.4	77.1	136.8	213.9
1994	1.6	1.3	37.6	42.4	82.9	172.4	255.3
1995	0.4	7.0	28.0	43.4	78.8	165.9	244.7
1996	10.4	6.5	43.4	54.3	114.6	217.2	331.8
1997	7.3	12.2	39.5	39.5	98.5	228.3	326.8
1998	3.0	6.1	23.4	29.0	61.5	194.3	255.8
1999	5.1	8.1	16.9	25.0	55.1	257.9	313.0
2000	5.4	4.2	21.3	18.9	49.8	204.5	254.3

1/ Catch of lower Columbia River stocks based on timing of catch (September-November) prior to 1980 and CWT recoveries beginning in 1980. Currently includes LRH, LRW, BUB, LRB and SAB stock fish.

2/ Includes terminal and select area fisheries.

3/ Beginning in 1980, includes catches made in tributaries. Beginning in 1982, includes catches made in estuary recreational (Buoy 10) fishery.

4/ Prior to 1980, Willamette Falls count only. Since 1980, natural spawner numbers have been estimated and combined with Willamette Falls count.

5/ Actual hatchery returns (not based on CWT analysis).

Table 49. Stock Accountability (in Thousands) of Lower River Hatchery Fall Chinook Adults Entering the Columbia River, 1980-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Natural Spawning Escapement 3/	Total Run Size 4/
	1-5 1/	6	1-6	L. Col. R. 2/	Tributary		
1980	57.0	0.1	57.1	0.5	2.4	45.5	105.6
1981	21.5	1.0	22.5	0.4	2.5	69.0	94.9
1982	47.3	1.0	48.3	0.2	3.7	86.6	139.5
1983	14.9	0.8	15.7	0.8	0.7	70.4	88.1
1984	26.7	1.4	28.1	6.7	2.1	59.5	102.4
1985	17.6	0.1	17.7	2.0	3.3	87.6	111.0
1986	75.3	0.7	76.0	7.0	3.8	67.8	154.8
1987	179.8	0.6	180.4	27.1	5.5	130.9	344.1
1988	178.4	1.8	180.2	17.8	4.2	107.5	310.0
1989	31.0	0.0	31.0	7.7	7.5	84.4	130.9
1990	4.4	0.2	4.6	2.7	3.7	48.9	60.0
1991	6.9	0.4	7.3	6.1	2.2	46.9	62.7
1992	2.7	0.2	2.9	5.7	3.0	50.7	62.6
1993	4.0	0.2	4.2	3.5	2.5	41.7	52.3
1994	0.0	0.0	0.0	0.0	0.2	53.3	53.6
1995	0.0	0.4	0.4	1.5	0.3	44.1	46.4
1996	3.9	0.4	4.2	3.3	1.4	66.6	75.5
1997	2.2	0.0	2.2	5.3	2.4	47.3	57.4
1998	0.9	0.0	0.9	4.4	0.1	39.7	45.3
1999	2.2	0.0	2.2	3.7	2.5	31.6	40.0
2000	0.8	0.0	0.8	2.8	0.3	22.9	27.0

1/ Includes terminal and select area fisheries.

2/ Beginning in 1982, includes catches from the estuary recreational (Buoy 10) fishery.

3/ Includes LRH stock fish that strayed to escapement areas upstream from Bonneville Dam. Also includes fish trapped at Bonneville Dam for hatchery broodstock.

4/ Includes escapement and state conducted test, treaty Indian subsistence, and all other fisheries. May also include fish counted at Bonneville Dam that were unaccounted for in any subsequent fisheries or escapement.

Table 50. Stock Accountability (in Thousands) of Lower River Wild Fall Chinook Adults Entering the Columbia River, 1980-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Natural Spawning Escapement	Total Run Size 3/
	1-5 1/	6	1-6	L. Col. R. 2/	Tributary		
1980	18.4	0.1	18.5	0.1	1.2	19.0	38.8
1981	1.4	0.0	1.4	0.0	1.1	22.4	25.0
1982	1.2	0.0	1.2	0.1	0.9	10.7	13.0
1983	0.6	0.0	0.6	0.2	1.3	14.7	16.8
1984	2.9	0.0	2.9	0.4	1.3	8.6	13.3
1985	3.6	0.0	3.6	0.3	1.0	8.3	13.3
1986	10.2	0.0	10.2	0.5	1.5	12.3	24.5
1987	16.4	0.2	16.6	1.9	1.7	17.6	37.9
1988	19.3	0.1	19.4	1.7	1.7	18.9	41.7
1989	6.7	0.0	6.7	1.9	3.0	27.0	38.6
1990	0.9	0.0	0.9	1.2	1.2	17.0	20.3
1991	6.4	0.0	6.4	0.5	1.6	11.2	19.9
1992	2.3	0.0	2.3	0.6	1.7	7.9	12.5
1993	1.6	0.0	1.6	0.6	2.3	9.0	13.4
1994	0.3	0.0	0.3	0.1	0.9	11.0	12.2
1995	0.0	0.0	0.0	0.9	3.1	11.9	16.0
1996	0.3	0.0	0.3	0.2	0.1	14.0	14.6
1997	0.0	0.0	0.0	0.8	0.2	11.2	12.3
1998	0.0	0.0	0.0	0.7	0.0	6.6	7.3
1999	0.0	0.0	0.0	0.0	0.0	3.3	3.3
2000	0.5	0.0	0.5	0.0	0.0	9.6	10.2

1/ Includes terminal and select area fisheries.

2/ Beginning in 1982, includes catches from the estuary recreational (Buoy 10) fishery.

3/ Includes escapement and state conducted test and all other fisheries.

Table 51. Stock Accountability (in Thousands) of Select Area Bright Fall Chinook Adults Entering the Columbia River, 1985-2000.

Year	Commercial Catch by Zone			Sport Catch		Hatchery Returns and Natural Spawning Escapement	Total Run Size 3/
	1-5 1/	6	1-6	L. Col. R. 2/	Tributary		
1985	1.1	0.0	1.1	0.0	0.0	0.5	1.6
1986	1.3	0.0	1.3	0.2	0.0	0.4	2.0
1987	1.8	0.0	1.8	0.3	0.0	0.2	2.3
1988	2.3	0.0	2.3	0.5	0.0	0.4	3.2
1989	0.4	0.0	0.4	0.2	0.0	0.6	1.2
1990	0.2	0.0	0.2	0.1	0.0	0.8	1.1
1991	0.4	0.0	0.4	0.7	0.0	0.8	2.0
1992	0.7	0.0	0.7	1.0	0.0	0.6	2.3
1993	0.4	0.0	0.4	0.5	0.0	1.2	2.1
1994	0.1	0.0	0.2	0.0	0.0	3.0	3.2
1995	0.3	0.0	0.3	0.2	0.0	5.5	6.0
1996	1.9	0.0	1.9	0.5	0.0	2.3	4.7
1997	2.0	0.0	2.0	0.7	0.0	1.0	3.8
1998	1.4	0.0	1.4	0.8	0.0	1.2	3.5
1999	1.6	0.0	1.6	0.4	0.0	0.8	2.9
2000	1.6	0.0	1.6	0.4	0.0	1.4	3.4

1/ Includes terminal and select area fisheries.

2/ Includes catches from the estuary recreational (Buoy 10) fishery.

3/ Includes escapement and state conducted test and all other fisheries.

Table 52. Estimated Numbers (in Thousands) of Sockeye Entering the Columbia River and Escapement, 1938-2000.

Year	Catch by Zone				Bonn. Count	Run Size 1/	Escapement	
	1-5	6		1-6			Priest Rapids 2/	Ice Harbor 3/
	Comm.	Comm.	C&S					
1938	93.0	32.6	--	125.6	75.0	168.0	17.1	--
1939	51.4	29.6	--	81.0	73.4	124.8	19.6	--
1940	47.2	64.7	--	111.9	148.8	196.0	26.9	--
1941	107.9	42.1	--	150.0	65.7	173.6	0.9	--
1942	39.0	18.4	--	57.4	55.5	94.5	16.3	--
1943	33.6	9.3	--	42.9	39.8	73.4	17.7	--
1944	9.5	7.0	--	16.5	15.1	24.6	4.9	--
1945	1.4	1.3	--	2.7	9.5	10.9	7.1	--
1946	26.7	11.6	--	38.3	74.4	101.1	46.6	--
1947	164.2	47.2	--	211.4	171.1	335.3	79.8	--
1948	11.7	18.1	--	29.8	131.5	143.2	84.6	--
1949	1.2	6.5	--	7.7	51.4	52.6	18.7	--
1950	34.6	15.8	--	50.4	78.0	112.6	50.1	--
1951	34.3	12.0	--	46.3	169.4	203.7	102.7	--
1952	134.3	31.5	--	165.8	184.6	318.9	113.7	--
1953	24.8	16.2	--	41.0	235.2	260.0	152.0	--
1954	49.9	17.5	--	67.4	130.1	180.0	91.2	--
1955	7.3	52.4	--	59.7	237.7	245.0	155.8	--
1956	45.6	35.7	--	81.3	156.4	202.0	92.2	--
1957	64.9	0.2	--	65.1	82.9	147.8	71.3	--
1958	190.9	6.3	--	197.2	122.4	313.3	97.9	--
1959	184.1	0.9	--	185.0	86.6	270.7	72.3	--
1960	119.4	0.6	--	120.0	59.7	179.1	58.2	--
1961	40.6	0.1	--	40.7	17.1	60.2	19.5	--
1962	10.5	3.8	--	14.3	28.2	42.9	28.6	38
1963	5.1	8.9	--	14.0	60.3	79.9	64.8	1,118
1964	5.0	15.8	--	20.8	99.9	104.9	79.1	1,276
1965	0.1	5.8	--	5.9	55.1	55.2	48.3	317
1966	0.2	4.2	--	4.4	156.7	174.8	170.1	278
1967	21.2	34.5	--	55.7	144.2	180.2	123.8	717
1968	20.3	5.0	--	25.3	108.2	134.8	108.3	1,165
1969	16.2	11.3	--	27.5	59.6	75.8	39.1	745
1970	13.0	4.1	--	17.1	70.8	95.4	77.5	797
1971	54.9	21.3	--	76.2	87.4	150.5	73.8	532
1972	51.8	26.1	--	77.9	56.3	123.3	45.0	363
1973	2.3	1.4	--	3.7	59.0	61.3	54.5	233
1974	0.0	<0.1	--	<0.1	43.8	43.8	35.4	204

Table 52. Continued

Year	Catch by Zone				Bonn. Count	Run Size 1/	Escapement	
	1-5	6		1-6			Priest Rapids 2/	Ice Harbor 3/
	Comm.	Comm.	C&S					
1975	0.0	0.0	--	0.0	58.2	58.2	55.2	243
1976	0.1	<0.1	--	0.1	43.6	43.7	32.8	771
1977	0.0	0.1	1.9	2.0	99.8	99.8	95.4	582
1978	0.0	<0.1	0.1	0.1	18.4	18.4	14.9	86
1979	0.0	<0.1	0.1	0.1	52.6	52.6	45.7	30
1980	0.0	<0.1	0.6	0.6	58.9	58.9	52.1	36
1981	0.0	<0.1	1.5	1.5	56.0	56.0	51.5	142
1982	0.0	0.1	0.7	0.8	50.2	50.2	40.5	174
1983	0.0	1.8	1.5	3.3	100.5	100.5	89.8	216
1984	9.1	22.5	2.1	33.7	152.5	161.6	114.8	105
1985	31.9	49.4	0.5	81.8	166.3	200.4	118.5	24
1986	1.8	4.3	2.4	8.5	58.1	59.9	43.1	20
1987	28.3	39.5	0.1	67.9	117.0	145.3	76.6	13
1988	17.5	31.0	--	48.5	79.7	99.6	51.1	22
1989	0.0	<0.1	2.1	2.1	41.9	47.4	45.3	4
1990	0.0	<0.1	2.4	2.4	49.6	49.6	46.3	1
1991	0.0	<0.1	3.3	3.3	76.5	76.5	71.2	9
1992	0.0	<0.1	2.2	2.2	85.0	85.0	77.7	2
1993	0.0	<0.1	5.0	5.0	80.2	84.2	79.2	17
1994	0.0	0.0	0.5	0.5	12.7	12.7	11.8	3
1995	0.0	0.0	0.4	0.4	8.8	9.2	8.7	5
1996	0.0	0.0	1.4	1.4	30.3	30.3	28.0	1
1997	0.0	0.0	2.0	2.0	46.9	46.9	42.7	15
1998	0.0	0.0	0.4	0.4	13.2	13.2	10.0	3
1999	0.0	0.0	0.7	0.7	17.9	17.9	15.3	14
2000	0.3	0.1	2.8	3.1	93.4	93.7	83.6	216

1/ Run size 1938-59 is Zones 1-5 landings plus Bonneville count. Since 1960 a maximum run size is computed using Zones 1-6 landings plus escapement or Zones 1-5 landings plus Bonneville count.

2/ Rock Island Dam count for 1938-59 and Priest Rapids Dam count for 1960-present.

In 1992 and 1993, Priest Rapids Dam counts were adjusted to 16 hour counts from the actual 24 hour counts to match counting hours in previous years.

3/ Non-rounded counts of sockeye are presented for Ice Harbor Dam only. Actual 1992 count of 33 sockeye was adjusted to two by the U.S. v. Oregon Technical Advisory Committee. The remainder of the count was believed to be non-anadromous sockeye or kokanee. The Technical Advisory Committee concluded that three sockeye passed Ice Harbor Dam in 1994.

Table 53. Estimated Numbers of Endangered Snake River Sockeye Entering the Columbia River and Escapement, 1975-2000. 1/.

Year	Total Run Size 2/	Non-Indian Harvest 3/	Treaty Indian Harvest 4/	Bonn. to Lower Granite Dam Passage Loss 5/	Lower Granite Dam Escapement
1975	255	0	0	46	209
1976	1,003	2	0	470	531
1977	605	0	13	134	458
1978	106	0	1	(18)	123
1979	35	0	0	10	25
1980	41	0	0	(55)	96
1981	154	0	4	(68)	218
1982	215	0	4	1	211
1983	241	0	8	111	122
1984	148	9	23	70	47
1985	41	7	10	(10)	35
1986	28	2	3	8	15
1987	25	5	7	(16)	29
1988	43	8	13	(1)	23
1989	4	0	0	2	2
1990	1	0	0	1	0
1991	10	0	0	2	8
1992	2	0	0	1	1
1993	18	0	1	5	12
1994	3	0	0	1	2
1995	5	0	0	1	4
1996	4	0	0	0	0
1997	2	0	0	0	2
1998	4	0	0	1	3
1999	19	0	1	2	16
2000	447	2	1	44	400

1/ Listed as endangered under the Endangered Species Act, December 1991.

2/ Developed by the U.S. v. Oregon Technical Advisory Committee using the ratio of Ice Harbor Dam counts to combined Ice Harbor and Priest Rapids Dam counts applied to the total sockeye run size entering the Columbia River.

3/ Commercial fishery catch.

4/ Includes commercial, ceremonial, and subsistence fisheries' catches.

5/ Negative passage loss (in parentheses) is the result of counting of non-anadromous kokanee at Snake River dams, unaccounted passage through navigation locks, and nighttime passage at lower dams.

Table 54. Columbia River Sockeye Commercial Landings (in Thousands), 1938-2000.

Year	Zones 1-5		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1938	325.5	93.0	99.1	32.6	424.6	125.6
1939	180.0	51.4	89.8	29.6	269.8	81.0
1940	165.1	47.2	196.8	64.7	361.9	111.9
1941	377.7	107.9	128.0	42.1	505.7	150.0
1942	136.4	39.0	56.0	18.4	192.4	57.4
1943	117.7	33.6	28.4	9.3	146.1	42.9
1944	33.4	9.5	21.4	7.0	54.8	16.5
1945	4.8	1.4	3.9	1.3	8.7	2.7
1946	93.3	26.7	35.2	11.6	128.5	38.3
1947	574.7	164.2	143.6	47.2	718.3	211.4
1948	40.8	11.7	55.0	18.1	95.8	29.8
1949	4.4	1.2	19.6	6.5	24.0	7.7
1950	121.2	34.6	48.0	15.8	169.2	50.4
1951	133.0	34.3	36.4	12.0	169.4	46.3
1952	513.0	134.3	95.7	31.5	608.7	165.8
1953	97.1	24.8	49.1	16.2	146.2	41.0
1954	195.6	49.9	47.8	17.5	243.4	67.4
1955	30.5	7.3	169.9	52.4	200.4	59.7
1956	180.7	45.6	106.4	35.7	287.1	81.3
1957	239.7	64.9	0.5	0.2	240.2	65.1
1958	704.4	190.9	19.1	6.3	723.5	197.2
1959	633.2	184.1	2.6	0.9	635.8	185.0
1960	392.2	119.4	1.9	0.6	394.1	120.0
1961	157.6	40.6	0.4	0.1	158.0	40.7
1962	39.3	10.5	12.4	3.8	51.7	14.3
1963	20.0	5.1	28.8	8.9	48.8	14.0
1964	16.6	5.0	51.6	15.8	68.2	20.8
1965	0.3	0.1	22.6	5.8	22.9	5.9
1966	0.6	0.2	16.6	4.2	17.2	4.4
1967	76.9	21.2	118.2	34.5	195.1	55.7
1968	72.4	20.3	17.2	5.0	89.6	25.3
1969	62.0	16.2	42.5	11.3	104.5	27.5
1970	42.7	13.0	13.0	4.1	55.7	17.1
1971	208.1	54.9	77.5	21.3	285.6	76.2
1972	186.9	51.8	88.7	26.1	275.6	77.9
1973	9.8	2.3	6.1	1.4	15.9	3.7
1974	0.0	0.0	0.2	<0.1	0.2	<0.1

Table 54 Continued

Year	Zones 1-5		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	0.0	0.0	0.0	0.0	0.0	0.0
1976	0.3	0.1	0.2	<0.1	0.5	0.1
1977	0.0	0.0	0.5	0.1	0.5	0.1
1978	<0.1	0.0	<0.1	<0.1	0.1	<0.1
1979	<0.1	0.0	<0.1	<0.1	<0.1	<0.1
1980	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1981	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1982	0.0	0.0	0.5	0.1	0.5	0.1
1983	0.0	0.0	6.5	1.8	6.5	1.8
1984	31.8	9.1	78.7	22.5	110.5	31.6
1985	111.6	31.9	175.8	49.4	287.4	81.3
1986	6.7	1.8	17.1	4.3	23.8	6.1
1987	107.5	28.3	149.0	39.5	256.5	67.8
1988	61.4	17.5	119.7	31.0	181.1	48.5
1989	0.0	0.0	0.1	<0.1	0.1	<0.1
1990	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1991	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1992	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1993	0.0	0.0	<0.1	<0.1	<0.1	<0.1
1994	0.0	0.0	0.0	0.0	0.0	0.0
1995	0.0	0.0	0.0	0.0	0.0	0.0
1996	0.0	0.0	0.0	0.0	0.0	0.0
1997	0.0	0.0	0.0	0.0	0.0	0.0
1998	0.0	0.0	0.0	0.0	0.0	0.0
1999	0.0	0.0	0.0	0.0	0.0	0.0
2000	1.2	0.3	0.4	0.1	1.6	0.4

Table 55. Escapement Index for Late Run Coho in Oregon Lower Columbia River Tributaries, 1949-2000.

Year	Miles Surveyed 1/	Fish Observed	Fish/Mile
1949	4.1	53	13
1950	9.0	168	19
1951	9.3	539	58
1952	10.3	384	37
1953	10.3	159	15
1954	10.3	191	19
1955	7.0	126	18
1956	10.3	424	41
1957	10.3	326	32
1958	10.3	180	17
1959	7.0	132	19
1960	7.0	123	18
1961	5.5	99	18
1962	5.5	166	30
1963	5.5	104	19
1964	4.9	185	38
1965	5.5	89	16
1966	9.0	254	28
1967	9.3	158	17
1968 2/	6.0	119	20
1969	9.3	308	33
1970	9.3	247	27
1971	9.3	94	10
1972	9.3	103	11
1973	9.3	30	3
1974	9.3	28	3
1975	9.3	42	5
1976	9.3	17	2
1977	9.3	15	2
1978	9.3	15	2
1979	9.3	15	2
1980	9.3	81	9
1981	9.3	16	2
1982	9.3	17	2
1983	9.3	11	1
1984	9.3	17	2

Table 55. Continued

Year	Miles Surveyed 1/	Fish Observed	Fish/Mile
1985 3/	7.8	3	<1
1986	9.3	51	5
1987	9.3	7	1
1988	9.3	5	1
1989	9.3	3	<1
1990	9.4	4	<1
1991	9.4	3	<1
1992	9.4	4	<1
1993	9.3	2	<1
1994	9.3	3	<1
1995	9.3	2	<1
1996	9.3	0	0
1997	9.3	0	0
1998	9.3	4	<1
1999	9.3	4	<1
2000	9.3	82	9

1/ In 1975 the database was reorganized into 9.3 miles of ten standard index streams that best indicate trends in escapement since 1967. Prior to 1967 the same ten streams are used; however survey miles as well as frequency vary.

2/ In 1968 two streams were not surveyed.

3/ In 1985 observations in a survey heavily influenced by hatchery adult introduction were not included.

Table 56. Minimum Numbers (in Thousands) of Coho, Including Jacks, Entering the Columbia River, 1938-2000.

Year	Lower Columbia River							Minimum Run
	Zones 1-5	Sport Catch			Hatchery Returns	Dam Counts 5/	Bonneville Dam Count	
	Comm. Catch 1/	Estuary 2/	L.Col.R. 3/	Trib. 4/				
1938	256.7	--	--	--	--	--	15.2	271.9
1939	169.8	--	--	--	--	--	14.4	184.2
1940	152.5	--	--	--	--	--	11.9	164.4
1941	113.6	--	--	--	--	--	17.9	131.5
1942	71.4	--	--	--	--	--	12.4	83.8
1943	78.4	--	--	--	--	--	2.5	80.9
1944	170.0	--	--	--	--	--	4.2	174.2
1945	203.8	--	--	--	--	--	0.8	204.6
1946	117.6	--	--	--	--	--	3.9	121.5
1947	165.0	--	--	--	--	--	11.2	176.2
1948	130.4	--	--	--	--	--	4.1	134.5
1949	99.7	--	--	--	--	--	1.0	100.7
1950	115.7	--	--	--	--	--	10.2	125.9
1951	107.2	--	--	--	--	--	5.2	112.4
1952	118.5	--	--	--	--	--	7.8	126.3
1953	48.3	--	--	--	--	--	13.0	61.3
1954	32.8	--	--	--	--	0.5	4.1	37.4
1955	58.4	--	--	--	--	2.2	3.7	64.3
1956	49.7	--	--	--	--	8.6	6.1	64.4
1957	46.2	--	--	--	--	4.2	4.7	55.1
1958	18.5	--	--	--	--	2.0	3.7	24.2
1959	15.1	--	--	--	--	3.4	2.7	21.2
1960	17.5	--	--	--	23.6	3.3	3.3	47.7
1961	37.2	--	--	--	44.4	27.3	3.5	112.4
1962	62.8	--	--	--	79.5	27.6	14.8	184.7
1963	65.1	--	--	--	58.6	25.5	12.7	161.9
1964	203.7	--	9.7	--	157.8	29.1	53.6	453.9
1965	231.5	--	2.0	--	172.5	37.0	76.0	519.0
1966	415.5	--	11.0	--	250.2	37.3	71.9	785.9
1967	368.8	--	12.0	--	181.7	35.2	96.5	694.2
1968	125.1	--	5.5	--	191.4	38.4	63.5	423.9
1969	190.1	--	3.5	--	201.3	19.1	49.4	463.4
1970	520.9	--	13.8	21.7	402.4	40.1	80.1	1,079.0
1971	264.3	--	5.1	16.0	259.1	28.2	76.0	648.7
1972	131.3	--	2.5	9.3	135.4	18.2	65.9	362.6
1973	183.7	--	3.4	7.4	166.3	7.5	54.5	422.8
1974	261.0	--	0.7	12.6	192.3	6.4	61.0	534.0
1975	156.6	--	1.6	10.0	197.1	14.1	58.3	437.7
1976	168.4	--	1.2	10.8	144.7	5.8	53.2	384.1
1977	39.0	--	6.9	5.7	123.6	4.4	19.4	199.0
1978	132.7	--	4.3	8.7	177.5	6.9	52.6	382.7
1979	127.6	--	3.0	12.1	136.5	6.2	45.3	330.7

Table 56. Continued

Year	Lower Columbia River					Hatchery Returns	Dam Counts 5/	Bonneville Dam Count	Minimum Run
	Zones 1-5	Sport Catch							
	Comm. Catch 1/	Estuary 2/	L.Col.R. 3/	Trib. 4/					
1980	150.1	--	0.2	11.1	153.0	6.5	22.1	343.0	
1981	59.9	--	0.7	7.6	103.9	5.4	30.5	208.0	
1982	201.7	18.9	0.9	17.6	196.8	8.9	73.8	518.6	
1983	7.1	3.6	2.5	5.1	104.5	5.4	15.2	143.4	
1984	201.5	74.4	1.3	14.9	118.4	6.9	29.5	446.9	
1985	190.0	25.4	1.5	9.4	141.7	10.4	56.9	435.3	
1986	981.0	120.4	4.5	20.7	305.2	11.4	130.9	1,574.1	
1987	167.8	47.2	4.0	6.1	128.1	7.9	27.6	388.7	
1988	363.0	143.4	2.0	11.8	154.6	12.2	39.6	726.6	
1989	389.2	81.9	0.5	15.1	217.9	8.5	39.3	752.4	
1990	75.2	18.5	3.3	9.7	126.5	4.1	24.8	262.1	
1991	409.2	208.7	2.4	29.3	236.8	6.7	64.0	957.1	
1992	57.8	43.1	2.1	8.4	101.4	6.1	18.1	237.0	
1993	36.1	21.0	0.6	6.3	41.4	1.1	11.7	118.2	
1994	63.8	1.8	1.0	3.4	81.0	4.4	22.8	178.2	
1995	22.6	5.0	0.3	2.5	42.9	3.6	12.0	88.9	
1996	28.1	4.5	0.8	3.8	72.1	1.6	18.8	129.7	
1997	20.5	20.4	1.3	8.5	73.2	3.3	27.3	154.5	
1998	23.8	6.3	1.2	7.1	103.9	1.4	49.9	193.6	
1999	80.5	9.0	1.8	17.8	149.0	1.7	45.2	305.0	
2000	173.9	21.5	4.0	32.1	288.5	7.3	97.0	624.3	

1/ Includes Youngs Bay, and Big Creek (1963-present), other SAFE sites (1996-present), and Washington terminal (1980-82) fisheries' landings.

2/ Catch from estuary recreational (Buoy 10) fishery. Catch from the estuary fishery prior to 1982 is included in the ocean catch totals.

3/ Catch from above Astoria-Megler Bridge.

4/ Tributary sport catch is adults only and includes 1994 Youngs Bay sport catch.

5/ Willamette Falls on the Willamette R. (since 1954), North Fork Dam on the Clackamas R. (since 1958), and Marmot Dam on the Sandy R. (since 1960).

Table 57. Minimum Numbers (in Thousands) of Coho Adults Entering the Columbia River, 1970-2000.

Year	Lower Columbia River							Minimum Run
	Zones 1-5	Sport Catch			Hatchery	Dam	Bonneville	
	Comm. Catch 1/	Estuary 2/	L.Col.R. 3/	Trib. 4/	Returns	Counts 5/	Dam Count	
1970	520.9	--	2.2	21.8	275.4	20.1	54.9	895.3
1971	264.3	--	1.4	16.0	187.7	21.3	53.8	544.5
1972	131.3	--	0.8	9.2	91.3	11.0	34.2	277.8
1973	183.7	--	0.3	7.4	68.2	5.8	25.8	291.2
1974	261.0	--	0.5	12.6	152.8	2.4	31.6	460.9
1975	156.6	--	0.6	10.0	85.4	7.1	32.8	292.5
1976	168.4	--	0.3	10.8	117.3	3.5	36.7	337.0
1977	39.0	--	0.5	5.7	37.1	2.2	9.3	93.8
1978	132.7	--	1.1	8.7	131.8	2.9	30.3	307.5
1979	127.6	--	0.2	12.1	102.6	4.4	29.6	276.5
1980	150.1	--	0.1	11.1	122.2	5.1	13.0	301.6
1981	60.0	--	0.1	7.6	77.9	2.8	21.9	170.3
1982	201.7	18.8	0.1	17.6	154.1	5.0	55.8	453.1
1983	7.1	3.6	0.2	5.1	73.6	2.5	8.4	100.5
1984	201.5	74.4	0.7	14.9	101.7	4.2	16.8	414.2
1985	190.0	25.4	1.1	9.4	94.2	7.5	38.6	366.2
1986	981.0	120.4	4.0	20.7	284.1	8.9	108.7	1,527.8
1987	165.2	47.2	0.9	6.1	66.1	4.2	17.9	307.6
1988	361.5	143.4	0.5	11.8	113.6	6.9	27.1	664.8
1989	387.3	81.9	0.2	15.1	183.3	6.4	27.4	701.6
1990	66.2	18.5	0.3	9.7	87.8	2.0	11.6	196.1
1991	407.5	208.7	1.1	29.3	223.3	5.5	58.9	934.3
1992	54.1	43.1	0.6	8.4	85.1	5.2	14.4	210.9
1993	35.6	20.9	0.6	6.3	39.1	0.8	10.6	113.9
1994	60.7	1.8	0.9	3.4	77.7	4.1	20.3	168.9
1995	21.4	5.0	0.2	2.6	31.5	2.9	10.4	74.0
1996	26.1	4.5	0.8	3.8	62.2	0.6	15.7	113.7
1997	20.5	20.4	0.8	8.5	69.7	2.8	24.1	146.8
1998	23.0	6.3	0.6	7.1	84.6	1.0	46.3	168.9
1999	79.0	9.0	1.3	17.8	123.9	1.0	40.7	272.7
2000	171.0	21.5	1.6	33.2	232.0	6.4	85.7	551.4

1/ Includes Youngs Bay, Big Creek (1970-present), other SAFE sites (1996-present), and Washington terminal (1980-82) fisheries' landings. Includes jacks, except beginning in 1987 jacks landed in Youngs Bay and other select area fisheries are not included in this total.

2/ Catch from estuary recreational (Buoy 10) fishery. Catch from the estuary fishery prior to 1982 is included in the ocean catch totals.

3/ Catch from above Astoria-Megler Bridge.

4/ Includes the 1994 Youngs Bay adult sport catch.

5/ Willamette Falls on the Willamette R., North Fork Dam on the Clackamas R., and Marmot Dam on the Sandy R.

Table 58. Minimum Numbers (in Thousands) of Early Stock Coho Adults Entering the Columbia River, 1970-2000.

Year	Lower Columbia River							Minimum Run
	Zones 1-5	Sport Catch			Hatchery Returns	Dam Counts 5/	Bonneville Dam Count	
	Comm. Catch 1/	Estuary 2/	L.Col.R. 3/	Trib. 4/				
1970	396.5	--	1.7	16.6	226.2	18.6	53.1	712.7
1971	166.2	--	1.1	12.4	158.6	18.7	46.4	403.4
1972	70.3	--	0.7	7.4	81.3	10.4	32.2	202.3
1973	144.3	--	0.2	4.8	49.8	5.4	24.8	229.3
1974	120.1	--	0.4	10.6	123.8	1.6	26.1	282.6
1975	89.1	--	0.4	7.0	69.0	6.4	30.2	202.1
1976	71.2	--	0.2	6.8	71.5	2.5	33.1	185.3
1977	17.2	--	0.4	4.0	23.5	1.4	7.7	54.2
1978	62.4	--	0.8	6.2	98.7	2.4	27.9	198.4
1979	69.2	--	0.2	8.8	78.6	3.1	26.3	186.2
1980	68.8	--	0.1	6.2	76.4	2.0	6.8	160.3
1981	22.0	--	0.2	4.3	50.4	2.4	21.0	100.3
1982	42.6	11.9	0.1	11.6	108.4	3.8	51.0	229.4
1983	4.7	2.3	0.1	2.4	28.3	1.0	4.6	43.4
1984	115.1	46.3	0.5	6.9	54.9	3.8	13.1	240.6
1985	105.8	16.5	0.8	6.3	57.3	6.5	35.2	228.4
1986	356.6	97.6	2.9	9.5	158.6	5.9	99.7	730.8
1987	100.5	28.4	0.7	4.2	32.6	3.4	16.4	186.2
1988	186.7	61.7	0.3	7.0	47.3	6.3	23.0	332.3
1989	78.2	54.7	0.2	7.0	98.0	5.0	19.6	262.7
1990	38.3	12.6	0.3	6.3	40.9	1.7	8.7	108.8
1991	203.2	142.9	0.8	15.1	108.9	4.3	43.2	518.4
1992	19.4	29.1	0.5	4.1	44.5	3.4	8.4	109.4
1993	20.9	16.5	0.5	2.9	22.9	0.7	8.0	72.4
1994	58.3	1.4	0.8	2.2	59.6	3.3	12.6	138.2
1995	21.2	4.9	0.2	1.2	20.4	2.3	7.0	57.2
1996	22.3	3.9	0.8	2.4	44.3	0.6	8.9	83.2
1997	18.1	19.3	0.8	4.8	39.1	2.8	18.1	103.0
1998	22.8	6.0	0.6	5.1	46.8	0.9	34.2	116.4
1999	35.4	6.7	0.9	9.3	59.5	1.0	32.9	145.7
2000	78.9	18.7	1.0	22.8	138.2	5.5	58.9	324.0

1/ Includes Youngs Bay, Big Creek (1970-present), other SAFE sites (1996-present), and Washington terminal (1980-82) fisheries' landings.

2/ Catch from estuary recreational (Buoy 10) fishery. Catch from the estuary fishery prior to 1982 is included in the ocean catch totals. Some non-Columbia River fish are caught in the estuary fishery and are included here.

3/ Catch from above Astoria-Megler Bridge.

4/ Includes the 1994 Youngs Bay adult sport catch.

5/ Willamette Falls on the Willamette R., North Fork Dam on the Clackamas R., and Marmot Dam on the Sandy R.

Table 59. Minimum Numbers (in Thousands) of Late Stock Coho Adults Entering the Columbia River, 1970-2000.

Year	Lower Columbia River							Minimum Run
	Zones 1-5	Sport Catch			Hatchery Returns	N. Fk. Dam Count 4/	Bonneville Dam Count	
	Comm. Catch 1/	Estuary 2/	L.Col.R. 3/	Trib.				
1970	124.3	--	0.5	5.1	49.3	1.6	1.8	182.6
1971	98.1	--	0.3	3.7	29.0	2.6	7.4	141.1
1972	61.0	--	0.2	1.8	9.9	0.6	2.0	75.5
1973	39.4	--	0.1	2.6	18.4	0.4	1.1	62.0
1974	140.9	--	0.1	2.0	29.0	0.8	5.5	178.3
1975	67.6	--	0.2	2.9	16.4	0.7	2.6	90.4
1976	97.2	--	0.1	4.0	45.8	1.0	3.6	151.7
1977	21.8	--	0.1	1.7	13.6	0.9	1.6	39.7
1978	70.3	--	0.2	2.6	33.1	0.5	2.4	109.1
1979	58.4	--	0.0	3.4	23.9	1.3	3.3	90.3
1980	81.2	--	0.0	5.0	45.8	3.1	6.2	141.3
1981	37.9	--	0.0	3.3	27.5	0.4	1.0	70.1
1982	159.1	7.0	0.0	6.0	45.7	1.1	4.8	223.7
1983	2.4	1.3	<0.1	2.7	45.3	1.5	3.8	57.1
1984	86.4	28.1	0.2	8.0	46.8	0.4	3.6	173.5
1985	84.2	8.9	0.3	3.1	36.9	1.0	3.4	137.8
1986	624.4	22.8	1.1	11.3	125.5	2.9	8.9	796.9
1987	64.8	18.8	0.2	1.8	33.4	0.9	1.5	121.4
1988	174.9	81.7	0.2	4.8	66.3	0.6	4.1	332.6
1989	309.1	27.2	<0.1	8.1	85.3	1.4	7.8	439.0
1990	27.9	5.8	<0.1	3.5	46.9	0.3	2.9	87.4
1991	204.3	65.7	0.3	14.3	114.4	1.3	15.6	415.9
1992	34.7	14.0	<0.1	4.3	40.7	1.8	6.0	101.5
1993	14.8	4.4	0.1	3.4	16.1	0.1	2.6	41.5
1994	2.4	0.4	0.1	1.2	18.1	0.8	7.7	30.7
1995	0.2	0.2	<0.1	1.3	11.1	0.6	3.4	16.8
1996	3.8	0.6	<0.1	1.4	17.9	<0.1	6.8	30.5
1997	2.4	1.0	<0.1	3.7	30.7	<0.1	6.0	43.8
1998	0.2	0.2	0.2	2.0	37.8	0.1	12.1	52.6
1999	43.6	2.2	0.4	8.5	64.4	0.1	7.8	127.0
2000	92.1	2.8	0.6	10.4	93.8	0.9	26.8	227.4

1/ Includes Youngs Bay, Big Creek (1970-present), other SAFE sites (1996-present), and Washington terminal (1980-82) fisheries' landings.

2/ Catch from estuary recreational (Buoy 10) fishery. Catch from the estuary fishery prior to 1982 is included in the ocean catch totals. Some non-Columbia River fish are caught in the estuary fishery and are included here.

3/ Catch from above Astoria-Megler Bridge.

4/ North Fork Dam on the Clackamas R.

Table 60. Columbia River Coho Commercial Landings (in Thousands), 1938-2000.

Year	Zones 1-5 1/		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1938	2,309.9	256.7	1.1	0.2	2,311.0	256.9
1939	1,528.3	169.8	1.4	0.2	1,529.7	170.0
1940	1,372.4	152.5	0.8	0.1	1,373.2	152.6
1941	1,022.4	113.6	22.6	3.2	1,045.0	116.8
1942	642.7	71.4	1.8	0.3	644.5	71.7
1943	705.6	78.4	0.7	0.1	706.3	78.5
1944	1,529.7	170.0	3.6	0.5	1,533.3	170.5
1945	1,834.3	203.8	1.2	0.2	1,835.5	204.0
1946	1,058.4	117.6	1.2	0.2	1,059.6	117.8
1947	1,484.8	165.0	13.3	1.9	1,498.1	166.9
1948	1,173.3	130.4	1.4	0.2	1,174.7	130.6
1949	897.7	99.7	1.5	0.2	899.2	99.9
1950	1,041.4	115.7	6.6	0.9	1,048.0	116.6
1951	964.9	107.2	3.1	0.4	968.0	107.6
1952	1,066.6	118.5	7.4	1.1	1,074.0	119.6
1953	434.5	48.3	23.0	3.3	457.5	51.6
1954	295.5	32.8	7.9	1.1	303.4	33.9
1955	525.2	58.4	73.6	10.5	598.8	68.9
1956	447.4	49.7	12.6	1.8	460.0	51.5
1957	390.5	46.2	0.2	0.1	390.7	46.3
1958	165.9	18.5	1.7	0.2	167.6	18.7
1959	119.5	15.1	0.2	0.1	119.7	15.2
1960	158.0	17.5	1.1	0.2	159.1	17.7
1961	379.1	37.2	3.5	0.5	382.6	37.7
1962	582.5	62.8	17.5	2.5	600.0	65.3
1963	500.6	65.1	0.5	0.1	501.1	65.2
1964	1,943.6	203.7	19.9	2.5	1,963.5	206.2
1965	1,880.3	231.5	21.5	3.2	1,901.8	234.7
1966	4,317.6	415.5	71.5	8.3	4,389.1	423.8
1967	3,715.7	368.8	102.2	13.6	3,817.9	382.4
1968	912.7	125.1	49.5	7.6	962.2	132.7
1969	1,624.9	190.1	38.4	7.8	1,663.3	197.9
1970	5,608.0	520.8	137.6	15.5	5,745.6	536.3
1971	2,191.5	264.3	86.4	13.1	2,277.9	277.4
1972	1,177.5	131.3	61.9	8.7	1,239.4	140.0
1973	1,823.2	183.7	81.6	11.1	1,904.8	194.8
1974	2,391.0	261.0	41.7	6.8	2,432.7	267.8

Table 60. Continued

Year	Zones 1-5 1/		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	1,530.8	156.6	50.7	5.7	1,581.5	162.3
1976	1,298.4	168.4	30.2	4.0	1,328.6	172.4
1977	309.0	39.0	7.6	1.0	316.6	40.0
1978	1,074.1	132.7	22.8	3.7	1,096.9	136.4
1979	1,065.8	127.6	31.0	3.9	1,096.8	131.5
1980	998.1	133.7	1.9	0.3	1,000.0	134.0
1981	432.9	55.5	11.3	1.8	444.2	57.3
1982	1,516.3	199.6	25.9	4.3	1,542.2	203.9
1983	44.3	7.1	1.0	0.2	45.3	7.3
1984	1,612.5	201.5	8.7	1.6	1,621.2	203.1
1985	1,632.4	190.0	42.3	5.2	1,674.7	195.2
1986	6,723.9	981.0	96.1	16.8	6,820.0	997.8
1987	1,299.2	167.8	13.7	2.3	1,312.9	170.1
1988	2,644.8	363.0	37.9	5.1	2,682.7	368.1
1989	2,668.3	389.2	14.7	2.4	2,683.0	391.6
1990	492.6	75.2	6.9	1.0	499.5	76.2
1991	2,685.5	409.3	44.7	6.7	2,730.2	416.0
1992	298.9	57.8	4.8	1.0	303.7	58.8
1993	262.1	36.1	9.4	0.9	271.5	37.0
1994	496.3	63.8	8.6	1.0	505.0	64.8
1995	189.4	22.5	2.1	0.3	191.5	22.8
1996	229.6	28.1	1.3	0.1	230.9	28.2
1997	160.2	20.5	1.6	0.2	161.8	20.7
1998	194.2	23.8	1.6	0.2	195.8	24.0
1999	683.9	80.5	14.3	1.7	698.2	82.2
2000	1,548.6	173.9	36.5	4.4	1,585.0	178.3

1/ Includes Youngs Bay, Big Creek (1963-present), other SAFE sites (1996-present), and Washington terminal (1980-82) fisheries' landings.

Table 61. Escapement Index Values for Chum in Washington Lower Columbia River Tributaries, 1950-2000.

Year	Miles Surveyed	Fish Observed	Fish/Mile
1950	0.5	475	950
1951	2.9	2,430	838
1952	2.9	2,087	720
1953	2.9	706	243
1954	0.9	650	722
1955	1.3	89	68
1956	1.2	242	202
1957	3.8	893	235
1958	2.5	412	165
1959	2.9	1,046	361
1960	4.3	693	161
1961	2.6	854	328
1962	2.3	822	357
1963	5.4	1,041	193
1964	3.7	642	174
1965	6.5	528	81
1966	6.5	1,303	200
1967	6.5	909	140
1968	4.3	276	64
1969	6.5	600	92
1970	4.0	414	104
1971	6.5	574	88
1972	6.5	1,086	167
1973	4.3	403	94
1974	6.5	277	43
1975	6.5	322	50
1976	6.5	271	42
1977	6.5	593	91
1978	6.5	426	66
1979	6.5	130	20
1980	6.7	276	41
1981	4.0	56	14
1982	6.1	1,127	185
1983	5.8	317	55
1984	7.1	499	70

Table 61. Continued

Year	Miles Surveyed	Fish Observed	Fish/Mile
1985	7.1	500	70
1986	7.4	1,138	154
1987	7.1	1,016	143
1988	7.1	1,917	270
1989	7.1	367	52
1990	7.1	832	117
1991	7.1	673	95
1992	7.1	3,273	461
1993	7.1	1,411	199
1994	7.1	509	72
1995	7.2	922	128
1996	7.2	1,545	215
1997	7.2	1,054	146
1998	7.2	1,666	231
1999	7.2	2,096	291
2000	6.1	2,425	398

Table 62. Minimum Numbers (in Thousands) of Chum Entering the Columbia River, 1950-2000.

Year	Commercial Catch Zones 1-5 1/	Natural Spawners 2/	Hatchery Returns 3/	Bonneville Dam Count	Minimum Run
1950	57.4	0.5	--	1.1	58.9
1951	42.6	2.4	--	1.0	46.1
1952	25.3	2.1	--	1.5	28.9
1953	20.4	0.7	--	1.7	22.9
1954	26.2	0.7	--	1.6	28.5
1955	10.3	0.1	--	0.3	10.7
1956	3.7	0.2	--	0.7	4.7
1957	2.7	0.9	--	0.6	4.2
1958	7.4	0.4	--	0.5	8.3
1959	3.5	1.0	--	0.9	5.5
1960	1.3	0.7	--	1.0	3.0
1961	1.3	0.9	--	0.9	3.1
1962	3.9	0.8	--	1.0	5.7
1963	1.2	1.0	--	0.7	3.0
1964	1.9	0.6	--	0.6	3.2
1965	0.5	0.5	--	0.5	1.5
1966	0.9	1.3	--	0.9	3.1
1967	0.9	0.9	--	0.4	2.1
1968	0.3	0.3	--	0.1	0.6
1969	0.3	0.6	--	0.1	1.1
1970	0.6	0.4	--	0.2	1.2
1971	0.5	0.6	--	<0.1	1.1
1972	1.3	1.1	--	<0.1	2.4
1973	1.4	0.4	--	<0.1	1.8
1974	0.9	0.3	--	<0.1	1.2
1975	0.5	0.3	--	<0.1	0.8
1976	1.2	0.3	--	<0.1	1.5
1977	0.1	0.6	--	<0.1	0.8
1978	1.5	0.4	--	<0.1	1.9
1979	0.1	0.1	--	<0.1	0.3
1980	0.2	0.3	--	<0.1	0.5
1981	1.4	0.1	--	<0.1	1.5
1982	1.8	1.1	--	<0.1	2.9
1983	0.2	0.3	--	0.1	0.6
1984	1.8	0.5	--	0.1	2.3

Table 62. Continued

Year	Commercial Catch Zones 1-5 1/	Natural Spawners 2/	Hatchery Returns 3/	Bonneville Dam Count	Minimum Run
1985	0.7	0.5	--	0.1	1.3
1986	1.8	1.1	0.1	0.1	3.0
1987	1.3	1.0	0.1	0.1	2.5
1988	2.5	1.9	0.3	0.1	4.8
1989	1.3	0.4	0.2	<0.1	2.0
1990	0.8	0.8	1.2	<0.1	2.9
1991	0.4	0.7	0.2	<0.1	1.3
1992	0.7	3.3	0.9	<0.1	4.9
1993	<0.1	1.4	3.0	<0.1	4.5
1994	<0.1	0.5	0.7	<0.1	1.2
1995	<0.1	0.9	0.5	<0.1	1.5
1996	<0.1	3.0	0.3	<0.1	3.3
1997	<0.1	1.6	<0.1	<0.1	1.7
1998	<0.1	1.8	<0.1	0.1	1.9
1999	0.1	2.1	<0.1	0.1	2.4
2000	<0.1	2.4	<0.1	<0.1	2.5

1/ Includes Youngs Bay (1963-present), other SAFE sites (1996-present), and Washington terminal (1980-82) fisheries' landings.

2/ Unadjusted index area counts in Washington lower Columbia River tributaries. Population estimates based on the index counts are currently unavailable.

3/ Hatchery returns before 1986 are currently unavailable. Listed returns are for Sea Resources Hatchery (1986-present), Abernathy Hatchery (1990), Cowlitz and Elochomon hatcheries (2000).

Table 63. Columbia River Chum Commercial Landings (in Thousands), 1938-2000.

Year	Zones 1-5 1/		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1938	1,909.4	156.5	6.0	0.5	1,915.4	157.0
1939	1,154.2	94.6	20.2	1.7	1,174.4	96.3
1940	1,252.7	102.7	0.8	0.1	1,253.5	102.8
1941	4,149.8	340.1	0.0	0.0	4,149.8	340.1
1942	5,190.1	425.4	1.0	0.1	5,191.1	425.5
1943	959.9	78.7	0.0	0.0	959.9	78.7
1944	275.4	22.6	0.0	0.0	275.4	22.6
1945	588.8	48.3	0.0	0.0	588.8	48.3
1946	886.6	72.7	0.0	0.0	886.6	72.7
1947	496.2	40.7	0.0	0.0	496.2	40.7
1948	1,044.8	85.6	0.0	0.0	1,044.8	85.6
1949	541.6	44.4	3.4	0.3	545.0	44.7
1950	699.8	57.4	0.4	0.1	700.2	57.5
1951	519.7	42.6	12.6	1.0	532.3	43.6
1952	308.5	25.3	0.1	0.0	308.6	25.3
1953	249.2	20.4	0.0	0.0	249.2	20.4
1954	320.0	26.2	0.0	0.0	320.0	26.2
1955	125.6	10.3	0.0	0.0	125.6	10.3
1956	45.7	3.7	0.0	0.0	45.7	3.7
1957	32.1	2.7	0.0	0.0	32.1	2.7
1958	89.3	7.4	0.0	0.0	89.3	7.4
1959	42.9	3.5	0.0	0.0	42.9	3.5
1960	15.3	1.3	0.0	0.0	15.3	1.3
1961	16.9	1.3	0.4	0.1	17.3	1.4
1962	48.1	3.9	0.0	0.0	48.1	3.9
1963	15.3	1.2	0.0	0.0	15.3	1.2
1964	23.8	1.9	0.1	0.0	23.9	1.9
1965	6.1	0.5	0.0	0.0	6.1	0.5
1966	11.0	0.9	0.0	0.0	11.0	0.9
1967	9.7	0.9	0.0	0.0	9.7	0.9
1968	3.3	0.3	0.1	0.0	3.4	0.3
1969	4.0	0.3	0.0	0.0	4.0	0.3
1970	8.0	0.6	0.0	0.0	8.0	0.6
1971	5.9	0.5	0.0	0.0	5.9	0.5
1972	16.0	1.3	0.0	0.0	16.0	1.3
1973	18.0	1.4	0.0	0.0	18.0	1.4
1974	10.7	0.9	0.0	0.0	10.7	0.9

Table 63. Continued

Year	Zones 1-5 1/		Zone 6		Zones 1-6	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	5.7	0.5	0.0	0.0	5.7	0.5
1976	16.9	1.2	0.0	0.0	16.9	1.2
1977	2.3	0.1	0.0	0.0	2.3	0.1
1978	20.4	1.5	0.0	0.0	20.4	1.5
1979	1.6	0.1	0.0	0.0	1.6	0.1
1980	3.1	0.2	0.0	0.0	3.1	0.2
1981	18.5	1.4	0.0	0.0	18.5	1.4
1982	22.3	1.8	0.0	0.0	22.3	1.8
1983	2.0	0.2	0.0	0.0	2.0	0.2
1984	22.1	1.8	0.0	0.0	22.1	1.8
1985	7.5	0.7	0.0	0.0	7.5	0.7
1986	20.2	1.8	0.0	0.0	20.2	1.8
1987	14.1	1.3	0.0	0.0	14.1	1.3
1988	30.2	2.5	0.0	0.0	30.2	2.5
1989	17.3	1.3	0.0	0.0	17.3	1.3
1990	9.4	0.8	0.0	0.0	9.4	0.8
1991	4.2	0.4	0.0	0.0	4.2	0.4
1992	6.9	0.7	0.0	0.0	6.9	0.7
1993	0.5	<0.1	0.0	0.0	0.5	<0.1
1994	0.5	<0.1	0.0	0.0	0.5	<0.1
1995	0.1	<0.1	0.0	0.0	0.1	<0.1
1996	0.3	<0.1	0.0	0.0	0.3	<0.1
1997	0.5	<0.1	0.0	0.0	0.5	<0.1
1998	0.1	<0.1	0.0	0.0	0.1	<0.1
1999	1.2	0.1	0.0	0.0	1.2	0.1
2000	0.3	<0.1	0.0	0.0	0.3	<0.1

1/ Includes Youngs Bay (1963-present), other select area sites (1996-present), and Washington terminal (1980-82) fisheries' landings.

Table 64. Abundance Index (in Thousands) for Columbia River Winter Steelhead, 1953-2000. 1/

Run Year	Zones 1-5 Comm. Catch 2/	Zones 6 Comm. Catch 3/	Main-stem and Trib. Sport Catch	Dam Counts 4/	Hatchery Returns 5/	Index Total
1953-54	23.4	--	48.2	5.2	--	76.8
1954-55	16.4	--	31.3	2.1	--	49.8
1955-56	11.6	--	38.4	6.0	--	56.0
1956-57	10.7	--	30.9	9.6	--	51.2
1957-58	6.8	--	37.7	10.2	0.1	54.8
1958-59	7.0	--	34.2	6.6	0.6	48.4
1959-60	6.3	--	49.1	5.0	0.6	61.0
1960-61	9.6	--	34.4	11.8	0.7	56.5
1961-62	9.9	--	57.7	25.0	1.8	94.4
1962-63	7.8	--	54.1	14.1	2.7	78.7
1963-64	5.4	--	52.6	18.2	3.2	79.4
1964-65	9.5	--	46.4	21.5	2.5	79.9
1965-66	8.0	--	76.6	30.8	4.9	120.3
1966-67	8.4	--	76.4	38.4	9.9	133.1
1967-68	8.4	--	70.0	24.2	8.9	111.5
1968-69	12.8	--	77.6	24.8	7.3	122.5
1969-70	3.6	--	46.1	9.9	7.2	66.8
1970-71	5.0	--	88.9	31.0	9.6	134.5
1971-72	8.6	--	124.1	26.1	10.4	169.2
1972-73	2.3	--	79.4	19.8	11.5	113.0
1973-74	2.4	--	58.7	16.3	13.5	90.9
1974-75	0.1	--	54.7	7.7	15.2	77.7
1975-76	--	--	40.5	10.6	10.9	62.0
1976-77	--	--	33.4	15.1	6.9	55.4
1977-78	--	--	67.3	22.7	22.1	112.1
1978-79	--	--	43.9	12.0	21.2	77.1
1979-80	--	0.5	71.1	27.6	14.9	114.1
1980-81	--	0.6	47.2	23.5	9.3	80.6
1981-82	--	1.2	41.5	17.1	7.2	67.0
1982-83	--	0.6	29.9	12.8	2.7	46.0
1983-84	--	1.5	41.8	20.8	3.6	67.7
1984-85	--	0.7	64.9	24.6	4.2	94.4
1985-86	--	1.0 6/	47.7	25.5	3.1	77.3
1986-87	--	1.5	58.2	21.9	3.4	85.0
1987-88	--	1.0	54.6	28.6	7.5	91.7
1988-89	--	0.3	38.9	13.8	6.3	59.3
1989-90	--	0.2	41.8	15.5	10.5	68.0

Table 64. Continued

Run Year	Zones 1-5 Comm. Catch 2/	Zones 6 Comm. Catch 3/	Main-stem and Trib. Sport Catch	Dam Counts 4/	Hatchery Returns 5/	Index Total
1990-91	--	0.2	28.8	7.6	8.1	44.7
1991-92	--	0.2	43.1	10.4	9.5	63.2
1992-93	--	0.1	40.0	6.4	9.4	55.9
1993-94	--	<0.1	21.4	8.1	6.9	36.4
1994-95	--	<0.1	29.0	7.5	15.7	52.2
1995-96	--	<0.1	13.1	2.7	4.3	20.1
1996-97	--	<0.1	9.4	6.5	10.6	26.5
1997-98	--	<0.1	6.4	5.1	3.8	15.3
1998-99	--	<0.1	7.5	8.0	8.1	23.6
1999-2000	--	<0.1	NA	6.2	7.0	(13.2)
2000-01	--	<0.1	NA	(13.2)	(5.9)	(19.1)

1/ Escapement data not available for tributaries.

2/ Sale of steelhead by non-Indians prohibited since 1975.

3/ Prior to 1980, number of winter steelhead taken in treaty Indian fisheries is unknown.

4/ Marmot Dam on the Sandy R. (1955-56 through 1969-70 and since 1977-78), North Fork Dam on the Clackamas R. (since 1957-58), Mayfield Dam on the Cowlitz R. (1961-62 through 1968-69), and Willamette Falls on the Willamette R. (since 1953-54). Willamette Falls counts prior to 1965-66 are minimal values because they are limited to steelhead counts made in conjunction with the spring chinook counting period.

5/ Big Creek (since 1957-58), Klaskanine (since 1961-62, excluding 1964-65 and 1965-66), Eagle Creek (since 1957-58), Cowlitz Trout (since 1969-70), Beaver Creek and Skamania (since 1987-88), Cowlitz Salmon (since 1995-96), Lewis (since 1995-96), and Merwin (since 1995-96) hatcheries.

6/ Treaty Indian winter season not sampled in 1986, estimate based on proportion in prior years.

() indicates preliminary.

NA indicates not available.

Table 65. Minimum Numbers (in Thousands) of Upriver Summer Steelhead, Combined with the Lower River Run, to Form the Total Summer Steelhead Run Entering the Columbia River, 1928-2000.

Year	Catch by Zone			L. Col. Sport Catch 4/	Bonneville Count 5/	Upriver Run	Zone 6 Escape- ment	Minimum Lower River Run 6/	Minimum Run
	1-5	6							
	Comm. 1/	Comm. 2/	C&S 3/						
1938	143.0	38.1	--	--	106.6	249.6	68.5	--	249.6
1939	111.0	25.8	--	--	121.0	232.0	95.2	--	232.0
1940	239.8	52.9	--	--	183.0	422.8	130.1	--	422.8
1941	221.8	54.1	--	--	115.0	336.8	60.9	--	336.8
1942	146.9	41.5	--	--	150.3	297.2	108.8	--	297.2
1943	125.2	31.8	--	--	90.8	216.0	59.0	--	216.0
1944	134.3	42.0	--	--	98.0	232.3	56.0	--	232.3
1945	153.8	38.0	--	--	114.6	268.4	76.6	--	268.4
1946	130.1	45.8	--	--	137.9	268.0	92.1	--	268.0
1947	129.4	38.9	--	--	132.4	261.8	93.5	--	261.8
1948	103.4	43.1	--	--	136.7	240.1	93.6	--	240.1
1949	45.7	36.7	--	--	116.8	162.5	80.1	--	162.5
1950	66.9	25.0	--	--	112.1	179.0	87.1	--	179.0
1951	104.4	37.5	--	--	140.1	244.5	102.6	--	244.5
1952	123.0	57.2	--	--	260.1	383.1	202.9	--	383.1
1953	139.6	65.9	--	--	221.7	361.3	155.8	--	361.3
1954	114.5	23.5	--	--	175.0	289.5	151.5	--	289.5
1955	101.7	48.7	--	--	197.1	298.8	148.4	--	298.8
1956	71.6	27.9	--	--	129.1	200.7	101.2	--	200.7
1957	91.6	0.2	--	--	138.0	229.6	137.8	--	229.6
1958	80.5	4.1	--	--	130.7	211.2	126.6	--	211.2
1959	103.0	0.8	--	--	128.6	231.6	127.8	--	231.6
1960	86.7	1.3	--	--	113.1	199.8	111.8	--	199.8
1961	89.2	1.5	--	--	138.7	227.9	137.2	--	227.9
1962	88.7	0.5	--	--	163.0	251.7	162.5	--	251.7
1963	100.4	8.5	--	--	128.4	228.8	119.9	--	228.8
1964	43.7	6.7	--	18.7	116.2	178.6	109.5	--	178.6
1965	41.6	13.2	--	20.1	165.6	227.3	152.4	--	227.3
1966	36.3	3.1	--	30.0	142.3	208.6	139.2	--	208.6
1967	25.9	15.8	--	21.4	120.0	167.3	104.2	--	167.3
1968	27.1	9.4	--	28.0	106.1	161.2	96.7	--	161.2
1969	21.3	14.1	--	11.3	140.3	172.9	126.2	18.3	191.2
1970	16.1	13.2	--	9.4	113.0	138.5	99.8	18.5	157.0
1971	20.6	25.7	--	10.8	193.1	224.5	167.4	24.0	248.5
1972	24.9	28.9	--	15.4	185.3	225.5	156.4	32.3	257.8
1973	22.7	26.8	--	8.5	156.7	187.9	129.9	29.1	217.0
1974	4.0	13.2	--	5.5	135.2	144.8	122.0	24.1	168.9
1975	--	7.8	--	0.0	84.1	84.1	76.3	21.3	105.4
1976	--	11.8	--	0.0	122.4	122.4	110.6	25.4	147.8
1977	--	36.0	--	3.7	191.7	195.4	155.7	43.1	238.5
1978	--	19.1	--	1.5	102.3	103.8	83.2	50.7	154.5
1979	--	8.5	0.4	1.2	112.4	113.5	103.5	32.8	146.3

Table 65. Continued

Year	Catch by Zone			L. Col. Sport Catch 4/	Bonneville Count 5/	Upriver Run	Zone 6 Escape- ment	Minimum Lower River Run 6/	Minimum Run
	1-5	6							
	Comm. 1/	Comm. 2/	C&S 3/						
1980	--	9.6	0.5	2.0	127.6	129.6	117.5	47.8	177.4
1981	--	9.4	0.6	3.2	157.9	161.1	147.9	56.6	217.7
1982	--	8.3	0.7	2.6	156.2	158.8	147.2	49.1	207.9
1983	--	18.3	0.4	2.9	217.5	220.5	198.8	19.7	240.2
1984	--	78.2	1.6	5.4	314.5	319.9	234.7	68.5	388.4
1985	--	87.0	4.3	6.1	342.4	348.4	251.1	56.9	405.3
1986	--	70.6	2.6	8.0	376.4	384.3	303.2	89.9	474.2
1987	--	82.6	3.4	4.9	301.0	305.9	215.0	58.4	364.3
1988	--	77.7	4.1	7.7	277.2	284.9	195.4	77.9	362.8
1989	--	54.9	10.9	6.4	286.4	292.8	220.6	35.0	327.8
1990	--	31.1	5.7	4.0	181.5	185.5	144.7	61.9	247.4
1991	--	41.7	7.0	6.0	273.2	279.2	224.5	31.8	311.0
1992	--	52.8	6.7	10.2	313.9	324.1	254.4	48.0	372.1
1993	--	28.8	4.5	8.5	187.3	195.8	154.0	47.0	242.8
1994	--	15.9	2.9	4.0	160.8	164.8	142.0	47.3	212.1
1995	--	14.8	8.0	6.8	201.5	208.3	178.7	38.8	247.1
1996	--	13.6	9.6	5.1	204.0	209.1	180.7	34.9	244.0
1997	--	17.1	10.7	5.2	256.8	262.0	229.0	30.4	292.4
1998	--	9.4	7.5	3.7	184.4	188.1	167.5	27.9	216.0
1999	--	9.3	11.3	5.8	205.7	211.5	185.1	(31.6)	(243.1)
2000	--	12.4	5.2	8.2	274.2	282.4	256.6	(33.8)	(316.2)

1/ Sale of steelhead by non-Indians prohibited since 1975.

2/ In 1972-1983, includes the winter season catch during the winter season in the following year. Since 1983, includes fresh summer runs in same year plus holdover summers in following winter seasons. Since 1999, includes small landings of summer steelhead from the spring season. No significant winter season of summer steelhead from the spring season. No significant winter season landings occurred prior to 1973. (Beginning in 1991, includes all non-ticket catch, including direct public sales which became significant in 1995 and increased in 1997 when sales were allowed in Oregon.)

3/ Treaty Indian main-stem subsistence and ceremonial catches not enumerated prior to 1979.

4/ Beginning in 1977, May and June catches are included in lower river run. Beginning in 1992, includes Buoy 10 catches.

5/ Count period is April 1 to October 31.

6/ Minimum lower river run comprised of hatchery returns, tributary dam counts, tributary sport catches, and since 1977, May-June lower Columbia sport catch.

() indicates preliminary.

Table 66. Minimum Numbers (in Thousands) of Lower River Summer Steelhead Entering the Columbia River, 1969-2000.

Year	L. Columbia Sport Catch (May-June) 1/	Tributary Dam Counts 2/	Hatchery Returns 3/	Tributary Sport Catch 4/		Minimum Run
				OR	WA	
1969	0.0	0.0	3.6	--	14.7	18.3
1970	0.0	0.1	4.6	--	13.8	18.5
1971	0.0	2.3	4.4	--	17.3	24.0
1972	0.0	0.9	5.6	--	25.8	32.3
1973	0.0	1.8	2.7	--	24.6	29.1
1974	0.0	5.7	3.9	--	14.5	24.1
1975	0.0	5.2	4.2	0.5	11.4	21.3
1976	0.0	5.4	3.2	0.5	16.3	25.4
1977	0.7	12.7	6.8	1.2	21.7	43.1
1978	1.2	20.2	5.7	2.1	21.5	50.7
1979	0.6	13.9	4.0	2.1	12.2	32.8
1980	0.3	20.5	5.1	3.8	18.1	47.8
1981	1.9	23.0	6.3	2.5	22.9	56.6
1982	1.8	19.2	5.8	3.6	18.7	49.1
1983	0.8	8.6	2.0	1.5	6.8	19.7
1984	2.7	43.7	4.6	6.2	11.3	68.5
1985	1.8	32.3	3.0	3.9	15.9	56.9
1986	3.0	53.3	2.3	4.4	26.9	89.9
1987	1.6	33.6	1.6	4.2	17.4	58.4
1988	2.7	50.7	3.3	7.0	14.2	77.9
1989	1.7	13.4	3.8	3.5	12.6	35.0
1990	2.2	31.8	5.6	5.1	17.2	61.9
1991	1.2	10.4	2.2	3.0	15.0	31.8
1992	1.2	23.1	3.1	3.0	17.6	48.0
1993	1.8	17.3	4.7	3.2	20.0	47.0
1994	1.2	15.4	5.6	2.1	23.0	47.3
1995	1.4	15.1	7.8	1.5	13.0	38.8
1996	1.2	7.8	9.8	1.0	15.1	34.9
1997	1.9	17.5	3.7	1.4	5.9	30.4
1998	1.2	15.3	5.2	1.4	4.8	27.9
1999	1.3	12.4	4.0	(1.5)	(12.4)	(31.6)
2000	1.6	13.1	7.5	(1.4)	(10.2)	(33.8)

1/ Beginning in 1977, May-June lower Columbia recreational catch determined to be mostly lower river stock.

2/ Willamette Falls (Willamette R.), North Fork Dam (Clackamas R.), and Marmot Dam (Sandy R.).

3/ Skamania, Lewis River, and Cowlitz hatcheries.

4/ From Oregon and Washington catch record estimates. Washington catches prior to 1975 not corrected for non-response bias.

() indicates preliminary.

Table 67. Minimum Numbers (in Thousands) of Group A and Group B Summer Steelhead Entering the Columbia River, 1969-2000.

Year	Lower Columbia Catch				Bonneville Dam Counts		Minimum Run		
	Sport 1/		Commercial 2/		Group A	Group B	Group A	Group B	Total
	Group A	Group B	Group A	Group B					
1969	9.3	2.0	11.4	9.9	104.1	36.2	124.8	48.1	172.9
1970	7.8	1.6	5.0	11.1	77.9	35.1	90.7	47.8	138.5
1971	9.1	1.7	6.7	13.9	140.6	52.5	156.4	68.1	224.5
1972	12.1	3.3	12.8	12.1	106.7	78.5	131.6	93.9	225.5
1973	6.7	1.8	6.3	16.4	99.2	57.5	112.2	75.7	187.9
1974	4.0	1.5	1.2	2.8	112.2	23.1	117.4	27.4	144.8
1975	0.0	0.0	--	--	70.5	13.6	70.5	13.6	84.1
1976	0.0	0.0	--	--	91.1	31.3	91.1	31.3	122.4
1977	2.2	1.5	--	--	112.5	79.2	114.7	80.7	195.4
1978	1.5	0.0	--	--	62.4	39.9	63.9	39.9	103.8
1979	1.2	0.0	--	--	78.1	34.2	79.3	34.2	113.5
1980	2.0	0.0	--	--	83.9	43.7	85.9	43.7	129.6
1981	2.7	0.5	--	--	120.7	37.2	123.4	37.7	161.1
1982	2.6	0.0	--	--	101.9	54.3	104.5	54.3	158.8
1983	2.8	0.1	--	--	148.4	69.2	151.2	69.3	220.5
1984	4.3	1.1	--	--	188.8	125.7	193.1	126.8	319.9
1985	4.1	2.0	--	--	250.7	91.6	254.8	93.6	348.4
1986	6.0	2.0	--	--	276.4	99.9	282.4	101.9	384.3
1987	3.4	1.5	--	--	222.8	78.3	226.2	79.8	306.0
1988	5.8	1.9	--	--	188.9	88.3	194.7	90.2	284.9
1989	4.7	1.7	--	--	170.8	115.6	175.5	117.3	292.8
1990	2.7	1.3	--	--	94.1	87.4	96.8	88.7	185.5
1991	3.2	2.8	--	--	149.9	123.3	153.1	126.1	279.2
1992	6.4	3.8	--	--	174.6	139.3	181.0	143.1	324.1
1993	3.8	4.7	--	--	99.2	88.1	103.0	92.8	195.8
1994	2.3	1.7	--	--	82.4	78.4	84.7	80.1	164.8
1995	4.7	2.1	--	--	123.3	78.2	128.0	80.3	208.3
1996	4.0	1.1	--	--	135.8	68.2	139.8	69.3	209.1
1997	4.6	0.6	--	--	174.8	82.0	179.4	82.6	262.0
1998	1.7	2.0	--	--	83.8	100.6	85.5	102.6	188.1
1999	3.7	2.1	--	--	137.9	67.8	141.6	69.9	211.5
2000	6.3	1.9	--	--	184.3	89.9	190.6	91.8	282.5

1/ Sport catch based on timing of the catch: Group A--May 1-Aug 15 (1969-76) and July 1-Aug 15 beginning in 1977; Group B--Aug 16-Oct 31. Includes catches from estuary recreational (Buoy 10) fishery beginning in 1992.

2/ Commercial catch of steelhead by non-Indians (1969-74) was based on timing of the catch: Group A--spring through first two fishing weeks of August; Group B--remainder of August through October. Sale of steelhead by non-Indians prohibited since 1975.

Table 68. Group A Index Steelhead Runs and Wild Portion at Bonneville Dam, Treaty Indian Catch of Wild Group A Index Steelhead in Zone 6, and Wild Group A Index Escapement from Zone 6 (in Thousands), 1984-2000.

Year	Group A Index Bonneville Dam Counts			Zone 6 Commercial Catch 1/			Wild Group A Index Zone 6 Escapement
	Total	Wild		Group A Index	Wild Nos.	% of Wild Group A Index Run 2/	
		Nos.	% 2/				
1984	195.7	52.5	26.8	24.6	6.3	12.0	46.2
1985	281.5	51.9	18.4	53.2	10.8	20.7	41.1
1986	287.5	56.6	19.7	43.8	7.8	13.8	48.8
1987	238.3	106.7	44.8	47.9	16.8	15.7	89.9
1988	173.2	64.3	37.2	38.8	11.0	17.1	53.3
1989	193.1	57.5	29.8	34.0	9.2	15.9	48.3
1990	115.6	27.1	23.4	19.3	4.3	16.0	22.8
1991	234.1	60.3	25.7	33.9	8.8	14.7	51.5
1992	241.5	44.3	18.3	38.0	7.2	16.2	37.1
1993	136.7	28.7	21.0	20.4	4.4	15.2	24.3
1994	121.0	21.2	17.5	12.2	2.2	10.3	19.0
1995	180.0	26.0	14.4	18.7	2.7	10.4	23.3
1996	174.4	25.7	14.8	14.1	2.3	8.9	23.4
1997	208.2	30.9	14.8	20.8	3.2	10.4	27.7
1998	134.7	34.8	25.9	10.2	3.1	8.8	31.7
1999	176.5	56.6	32.1	14.7	4.3	7.6	52.3
2000	216.7	63.6	29.4	10.0	2.3	3.7	61.3

1/ Includes ticketed, non-ticketed, and C&S sales and landings from the fall treaty fishery in zone 6.

2/ Percentages calculated from non-rounded numbers.

Table 69. Group B Index Steelhead Runs and Wild Portion at Bonneville Dam, Treaty Indian Catch of Wild Group B Index Steelhead in Zone 6, and Wild Group B Index Escapement from Zone 6 (in Thousands), 1984-2000.

Year	Group B Index Bonneville Dam Counts			Zone 6 Commercial Catch 1/			Wild Group B Index Zone 6 Escapement
	Total	Wild		Group B Index	Wild Nos.	% of Wild Group B Index Run 2/	
		Nos.	% 2/				
1984	98.0	13.8	14.0	44.3	5.0	36.5	8.8
1985	40.9	13.0	31.8	19.4	4.0	31.0	9.0
1986	64.0	10.0	15.6	18.7	2.7	26.8	7.3
1987	45.0	14.0	31.1	18.4	5.2	37.2	8.8
1988	81.6	17.7	21.7	20.7	4.2	23.4	13.5
1989	77.6	12.4	15.9	21.5	4.3	35.0	8.1
1990	47.2	8.8	18.7	11.4	1.9	21.5	6.9
1991	28.3	6.2	22.0	7.3	1.9	30.0	4.3
1992	57.5	12.7	22.1	14.5	3.4	26.3	9.3
1993	36.2	4.4	12.1	8.4	0.8	19.2	3.6
1994	27.5	5.2	18.8	3.3	1.0	18.6	4.2
1995	13.2	1.9	14.0	1.7	0.3	18.4	1.6
1996	18.8	3.9	20.8	4.6	1.4	34.5	2.5
1997	36.7	3.9	10.7	1.9	0.6	14.3	3.3
1998	40.3	3.4	8.5	2.4	0.5	15.5	2.9
1999	22.1	3.7	16.9	2.7	0.5	12.6	3.3
2000	40.9	8.4	20.5	5.0	1.0	11.4	7.4

1/ Includes ticketed, non-ticketed, and C&S sales and landings from the fall treaty fishery in zone 6.

2/ Percentages calculated from non-rounded numbers.

Table 70. Columbia River Summer Steelhead Commercial Landings (in Thousands), 1938-2000.

Year	Zones 1-5 1/		Zone 6				Zones 1-6	
			Ticketed 2/		Non-Ticketed			
	Pounds	Numbers	Pounds	Numbers	Pounds 3/	Numbers 4/	Pounds	Numbers
1938	1,287.3	143.0	343.3	38.1	--	--	1,630.6	181.1
1939	998.9	111.0	231.8	25.8	--	--	1,230.7	136.8
1940	2,158.2	239.8	475.7	52.9	--	--	2,633.9	292.7
1941	1,996.4	221.8	487.0	54.1	--	--	2,483.4	275.9
1942	1,321.9	146.9	373.5	41.5	--	--	1,695.4	188.4
1943	1,126.8	125.2	285.8	31.8	--	--	1,412.6	157.0
1944	1,208.4	134.3	378.0	42.0	--	--	1,586.4	176.3
1945	1,384.3	153.8	341.8	38.0	--	--	1,726.1	191.8
1946	1,171.0	130.1	412.5	45.8	--	--	1,583.5	175.9
1947	1,164.4	129.4	350.0	38.9	--	--	1,514.4	168.3
1948	931.0	103.4	388.2	43.1	--	--	1,319.2	146.5
1949	411.0	45.7	330.7	36.7	--	--	741.7	82.4
1950	601.9	66.9	224.9	25.0	--	--	826.8	91.9
1951	808.7	104.4	267.4	37.5	--	--	1,076.1	141.9
1952	911.0	123.0	417.0	57.2	--	--	1,328.0	180.2
1953	1,125.6	139.6	527.4	65.9	--	--	1,653.0	205.5
1954	1,039.5	114.5	208.6	23.5	--	--	1,248.1	138.0
1955	815.6	101.7	333.6	48.7	--	--	1,149.2	150.4
1956	508.2	71.6	179.2	27.9	--	--	687.4	99.5
1957	678.0	91.6	1.2	0.2	--	--	679.2	91.8
1958	588.9	80.5	28.3	4.1	--	--	617.2	84.6
1959	623.8	103.0	4.8	0.8	--	--	628.6	103.8
1960	662.0	86.7	7.8	1.3	--	--	669.8	88.0
1961	604.0	89.2	14.4	1.5	--	--	618.4	90.7
1962	633.1	88.7	3.4	0.5	--	--	636.5	89.2
1963	839.1	100.4	64.0	8.5	--	--	903.1	108.9
1964	324.6	43.7	52.9	6.7	--	--	377.5	50.4
1965	321.3	41.6	104.5	13.2	--	--	425.8	54.8
1966	312.5	36.3	14.8	3.1	--	--	327.3	39.4
1967	227.0	25.9	142.0	15.8	--	--	369.0	41.7
1968	261.4	27.1	91.6	9.4	--	--	353.0	36.5
1969	241.5	21.3	143.2	14.1	--	--	384.7	35.4
1970	154.6	16.1	117.3	13.2	--	--	271.9	29.3
1971	188.3	20.6	232.7	25.7	--	--	421.0	46.3
1972	252.1	24.9	326.1	28.8	--	--	578.2	53.7
1973	309.4	22.7	290.2	26.8	--	--	599.6	49.5
1974	44.1	4.0	116.8	12.9	--	--	160.9	16.9

Table 70. Continued

Year	Zones 1-5 1/		Zone 6				Zones 1-6	
	Pounds	Numbers	Ticketed 2/		Non-Ticketed		Pounds	Numbers
			Pounds	Numbers	Pounds 3/	Numbers 4/		
1975	--	--	74.5	7.0	--	--	74.5	7.0
1976	--	--	107.0	8.8	--	--	107.0	8.8
1977	--	--	438.6	31.4	--	--	438.6	31.4
1978	--	--	231.7	15.8	--	--	231.7	15.8
1979	--	--	65.1	8.5	--	--	65.1	8.5
1980	--	--	88.8	9.6	--	--	88.8	9.6
1981	--	--	91.8	9.4	--	--	91.8	9.4
1982	--	--	91.3	8.3	--	--	91.3	8.3
1983	--	--	146.3	18.3	--	--	146.3	18.3
1984	--	--	940.6	77.5	--	--	940.6	77.5
1985	--	--	775.9	88.0	--	--	775.9	88.0
1986	--	--	679.4	71.4	--	--	679.4	71.4
1987	--	--	790.1	82.6	--	--	790.1	82.6
1988	--	--	744.7	77.2	--	--	744.7	77.2
1989	--	--	548.5	55.0	--	--	548.5	55.0
1990	--	--	319.5	31.1	--	--	319.5	31.1
1991	--	--	314.7	39.0	23.0	2.9	337.7	41.9
1992	--	--	457.9	50.2	21.8	2.4	479.7	52.6
1993	--	--	260.3	27.3	12.2	1.3	272.5	28.6
1994	--	--	110.5	12.9	25.4	3.0	135.9	15.9
1995	--	--	82.4	10.7	31.4	4.1	113.8	14.8
1996	--	--	93.4	9.7	37.7	3.9	131.1	13.6
1997	--	--	69.6	9.2	60.0	7.9	129.6	17.1
1998	--	--	40.7	5.2	32.6	4.2	73.3	9.4
1999	--	--	33.1	4.4	36.8	4.9	69.9	9.3
2000	--	--	86.1	9.2	30.5	3.2	116.6	12.4

1/ Sale of steelhead by non-Indians prohibited since 1975.

2/ Annual Zone 6 landings are from June through May of the following year. Since 1973, small landings of winter steelhead from the winter season are included. Since 1999, small landings of summer steelhead from the spring season are included. Includes only ticket landings (sales to licensed buyers).

3/ Since 1991, annual non-ticketed fish poundage from the Fall Zone 6 fishery was estimated by applying average weights from ticketed sales to the non-ticketed numbers of the same year.

4/ Since 1991, annual non-ticketed Zone 6 numbers were obtained from the tribes based on sale receipts primarily from the Fall Treaty Indian Fishery. Includes only public sales portion of non-ticketed landings.

Table 71. Sport Catch (in Thousands) of Upriver Summer Steelhead in Mainstem Columbia River and Tributaries; by Oregon, Washington, and Idaho Anglers, by Run Year, 1979-2000.

Run Year	Oregon	Washington	Idaho	Total	Run Size
1979-80	7.0	11.9	2.8	21.7	113.5
1980-81	11.5	13.4	12.1	37.0	129.6
1981-82	11.2	21.9	10.9	44.0	161.1
1982-83	9.9	16.3	27.9	54.1	158.8
1983-84	14.0	23.3	28.1	65.4	220.5
1984-85	16.4	35.1	32.0	83.5	319.9
1985-86	18.5	36.8	32.6	87.9	348.4
1986-87	25.4	40.6	47.9	113.9	384.3
1987-88	26.3	25.2	18.0	69.5	306.0
1988-89	26.5	30.2	23.5	80.2	284.9
1989-90	27.4	32.8	48.9	109.1	292.8
1990-91	18.5	23.8	19.0	61.3	185.5
1991-92	36.2	36.6	28.6	101.4	279.2
1992-93	27.7	52.2	44.7	124.6	324.1
1993-94	20.1	29.3	27.9	77.3	195.8
1994-95	15.5	24.1	19.6	59.2	164.8
1995-96	22.8	38.8	22.1	83.7	208.3
1996-97	25.0	36.0	27.2	88.2	209.1
1997-98	28.4	39.8	35.9	104.1	262.0
1998-99	(13.9)	(20.8)	(25.0)	(59.7)	188.1
1999-2000	NA	NA	(28.2)	NA	211.5

() indicates preliminary.

NA denotes data not yet available.

Table 72. Columbia River and Tributary Smelt Commercial Landings (in Thousands of Pounds), 1938-2000.

Year	Columbia River	Grays River	Cowlitz River	Kalama River	Lewis River	Sandy River	Total
1938	866.7	2.1	33.1	76.6	63.1	0.0	1,041.6
1939	721.6	35.7	996.4	0.0	1,342.7	0.0	3,096.4
1940	820.2	53.7	736.8	3.0	1,341.3	127.5	3,082.5
1941	193.2	0.0	1,793.0	0.0	377.0	168.6	2,531.8
1942	318.6	51.8	1,555.3	0.0	0.0	760.3	2,686.0
1943	643.0	3.7	2,972.5	0.0	273.2	84.9	3,977.3
1944	572.7	10.9	1,126.4	44.3	514.2	0.0	2,268.5
1945	633.3	59.2	2,048.4	32.5	1,552.8	1,393.1	5,719.3
1946	253.2	0.3	2,674.0	0.0	0.0	348.5	3,276.0
1947	352.3	0.0	1,192.6	0.0	0.0	0.0	1,544.9
1948	1,015.8	0.0	2,197.8	0.0	547.6	212.9	3,974.1
1949	919.1	0.3	0.8	0.0	1,940.9	472.5	3,333.6
1950	912.7	11.6	0.0	1.0	557.2	0.0	1,482.5
1951	1,337.6	0.0	0.0	0.0	0.0	179.3	1,516.9
1952	867.1	0.0	380.6	17.8	8.1	1.3	1,274.9
1953	439.3	15.6	795.4	2.8	0.0	457.9	1,711.0
1954	673.9	0.0	792.9	16.2	360.9	40.4	1,884.3
1955	887.5	0.0	1,349.6	0.0	0.0	0.0	2,237.1
1956	877.4	0.0	575.1	32.6	0.0	198.8	1,683.9
1957	377.5	2.2	987.8	0.0	0.0	211.5	1,579.0
1958	373.3	0.0	2,243.1	0.0	0.0	0.0	2,616.4
1959	760.0	0.0	62.3	44.1	889.7	0.0	1,756.1
1960	185.7	0.7	985.8	0.0	0.0	0.0	1,172.2
1961	466.4	0.0	585.9	0.0	0.0	0.0	1,052.3
1962	690.3	0.0	783.3	0.0	0.0	0.0	1,473.6
1963	222.3	21.3	833.5	0.0	0.0	0.0	1,077.1
1964	452.9	0.0	388.9	0.0	0.0	0.0	841.8
1965	828.7	0.0	0.0	0.0	82.0	0.0	910.7
1966	712.2	0.0	316.1	0.0	0.0	0.0	1,028.3
1967	357.1	23.2	620.5	0.0	0.0	0.0	1,000.8
1968	133.3	1.2	813.0	0.0	0.0	0.0	947.5
1969	113.7	52.8	917.2	0.0	0.0	0.0	1,083.7
1970	238.2	4.5	559.7	55.9	325.6	0.0	1,183.9
1971	364.5	0.0	509.4	0.0	902.8	0.0	1,776.7
1972	304.1	0.0	1,339.4	0.0	0.0	0.0	1,643.5
1973	132.0	0.0	2,302.4	0.0	0.0	0.0	2,434.4
1974	868.4	6.2	1,474.7	0.0	0.5	12.0	2,361.8

Table 72. Continued

Year	Columbia River	Grays River	Cowlitz River	Kalama River	Lewis River	Sandy River	Total
1975	28.3	0.0	2,049.3	0.0	0.0	0.0	2,077.6
1976	9.4	0.0	3,055.3	0.0	0.0	10.4	3,075.1
1977	662.7	0.0	0.0	326.2	0.0	764.1	1,753.0
1978	16.6	0.0	2,642.7	0.0	21.0	0.0	2,680.3
1979	313.6	0.0	18.2	0.0	233.3	591.6	1,156.7
1980	160.1	8.8	116.5	0.7	2,651.6	273.8	3,211.5
1981	158.2	0.0	932.5	0.0	567.1	14.5	1,672.3
1982	304.2	0.0	1,343.2	8.2	554.4	0.0	2,210.0
1983	58.7	0.0	1,307.3	0.0	1,364.4	0.0	2,730.4
1984	120.4	0.0	377.6	0.0	0.0	0.0	498.0
1985	537.8	34.9	1,160.8	0.0	0.0	304.5	2,038.0
1986	53.0	0.0	3,736.1	0.0	49.7	0.0	3,838.8
1987	73.6	0.0	1,321.0	0.7	500.4	0.0	1,895.7
1988	72.8	0.0	2,244.3	0.0	549.6	1.0	2,867.7
1989	65.2	0.0	3,001.6	0.0	0.0	0.0	3,066.8
1990	6.4	0.0	2,756.2	0.0	21.6	0.0	2,784.2
1991	5.8	0.0	2,944.6	0.0	0.0	0.0	2,950.4
1992	0.8	0.0	3,673.0	0.0	0.0	0.0	3,673.8
1993	33.2	0.0	413.9	66.8	0.0	0.0	513.9
1994	0.2	0.0	43.2	0.0	0.0	0.0	43.4
1995	7.7	0.0	431.4	0.9	0.0	0.0	440.0
1996	7.1	0.0	2.0	0.0	0.0	0.0	9.1
1997	37.1	0.0	21.5	0.0	0.0	0.0	58.6
1998	11.9	0.0	0.2	0.0	0.0	0.0	12.1
1999 1/	20.9	0.0	0.0	0.0	0.0	0.0	20.9
2000 1/	25.5	0.0	0.0	0.0	0.0	0.0	25.5

1/ Washington tributaries closed to commercial smelt fishing.

Table 73. Minimum Numbers (in Thousands) of Shad Entering the Columbia River, 1938-2000.

Year	Kept Catch			Dam Counts		Minimum Run 2/
	Zones 1-5 Comm. 1/	L. Col. Sport	L. Will. Sport	Bonneville	The Dalles	
1938	44.8	--	--	5.3	--	50.1
1939	93.5	--	--	4.8	--	98.3
1940	93.2	--	--	22.2	--	115.4
1941	100.3	--	--	18.7	--	119.0
1942	135.8	--	--	12.9	--	148.7
1943	85.7	--	--	2.8	--	88.5
1944	157.2	--	--	17.1	--	174.3
1945	234.1	--	--	94.5	--	328.6
1946	380.9	--	--	20.4	--	401.3
1947	344.3	--	--	26.0	--	370.3
1948	105.2	--	--	8.4	--	113.6
1949	114.5	--	--	22.6	--	137.1
1950	168.5	--	--	7.8	--	176.3
1951	108.3	--	--	8.4	--	116.7
1952	91.3	--	--	3.1	--	94.4
1953	73.5	--	--	16.4	--	89.9
1954	65.7	--	--	5.0	--	70.7
1955	76.0	--	--	5.8	--	81.8
1956	65.4	--	--	8.1	--	73.5
1957	40.0	--	--	13.2	5.1	53.2
1958	51.6	--	--	10.2	4.5	61.8
1959	36.2	--	--	6.7	4.3	42.9
1960	42.9	--	--	93.4	81.1	136.3
1961	108.2	--	--	265.7	113.2	373.9
1962	235.6	--	--	436.0	216.5	671.6
1963	213.2	--	--	389.8	161.0	603.0
1964	67.1	--	--	252.7	158.8	319.8
1965	87.2	--	--	617.3	346.3	704.5
1966	205.5	--	--	557.5	399.0	763.0
1967	221.8	--	--	222.5	139.0	444.3
1968	81.5	--	--	294.1	231.1	375.6
1969	45.5	5.9	--	317.4	305.9	368.8
1970	59.1	10.7	--	329.3	308.7	399.1
1971	40.3	6.1	--	189.6	187.5	236.0
1972	55.3	3.9	--	214.7	273.4	332.6
1973	49.0	7.0	--	519.2	781.0	837.0
1974	45.9	12.3	--	99.0	315.4	373.6

Table 73. Continued

Year	Kept Catch			Dam Counts		Minimum Run 1/
	Zones 1-5 Comm.	L. Col. Sport	L. Will. Sport	Bonneville	The Dalles	
1975	64.5	14.5	--	264.2	438.2	517.2
1976	60.9	15.9	10.7	305.2	508.9	596.4
1977	61.9	2.8	8.2	495.7	856.5	929.4
1978	113.6	15.7	5.8	861.2	1,234.7	1,369.8
1979	120.3	12.4	17.8	1,039.9	1,398.2	1,548.7
1980	23.2	24.3	15.5	939.4	1,160.8	1,223.8
1981	21.8	28.7	20.4	881.2	1,089.0	1,159.9
1982	75.0	33.9	21.7	780.2	1,002.8	1,133.4
1983	85.0	28.7	36.9	1,420.0	1,932.0	2,082.6
1984	18.1	22.3	19.9	1,275.8	1,190.0	1,336.1
1985	35.4	13.7	16.4	975.0	1,389.5	1,455.0
1986	88.2	18.9	5.9	858.2	1,361.9	1,474.9
1987	108.7	14.3	5.1	943.9	1,289.7	1,417.8
1988	108.5	27.5	11.5	1,164.3	2,008.6	2,156.1
1989	51.6	64.4	18.3	1,877.4	2,971.0	3,105.3
1990	167.8	113.8	23.5	2,947.9	3,706.9	4,012.0
1991	43.1	100.6	28.3	1,914.4	2,191.1	2,363.1
1992	141.4	88.3	16.3	2,551.4	2,824.3	3,070.3
1993	144.7	111.4	20.8	2,166.7	2,394.4	2,671.3
1994	57.7	103.8	33.2	1,557.6	1,801.5	1,996.2
1995	61.1	101.4	37.4	1,716.2	1,959.6	2,159.5
1996	61.1	129.7	66.4	1,924.7	2,648.6	2,905.8
1997	24.9	98.9	53.0	2,171.6	2,571.3	2,748.1
1998	24.5	83.4	37.9	1,891.0	2,149.1	2,294.9
1999	39.7	79.3	32.8	1,638.3	1,718.7	1,870.5
2000	30.5	58.0	54.3	1,244.3	1,556.6	1,699.4

1/ Includes numbers of shad caught in SAFE fisheries.

2/ Dam with largest count used in minimum run total.

Table 74. Columbia River Shad Commercial Landings (in Thousands), 1938-2000.

Year	Zones 1-5		Zone 6		Zones 1-6	
	Pounds	Numbers	F Pounds	Numbers	Pounds	Numbers
1938	168.0	44.8	1.7	0.4	169.7	45.2
1939	350.7	93.5	2.6	0.7	353.3	94.2
1940	349.7	93.2	14.7	3.9	364.4	97.1
1941	376.1	100.3	5.0	1.3	381.1	101.6
1942	509.3	135.8	9.6	2.6	518.9	138.4
1943	321.4	85.7	2.2	0.6	323.6	86.3
1944	589.8	157.2	3.3	0.9	593.1	158.1
1945	877.8	234.1	32.2	8.6	910.0	242.7
1946	1,428.7	380.9	14.0	3.7	1,442.7	384.6
1947	1,291.2	344.3	6.1	1.6	1,297.3	345.9
1948	394.5	105.2	0.9	0.2	395.4	105.4
1949	429.7	114.5	7.2	1.9	436.9	116.4
1950	631.9	168.5	1.2	0.3	633.1	168.8
1951	406.2	108.3	0.3	0.1	406.5	108.4
1952	342.4	91.3	0.3	0.1	342.7	91.4
1953	275.8	73.5	0.0	0.0	275.8	73.5
1954	246.4	65.7	0.0	0.0	246.4	65.7
1955	285.0	76.0	0.0	0.0	285.0	76.0
1956	245.4	65.4	0.1	0.0	245.5	65.4
1957	150.1	40.0	0.0	0.0	150.1	40.0
1958	193.4	51.6	0.0	0.0	193.4	51.6
1959	135.6	36.2	0.0	0.0	135.6	36.2
1960	160.9	42.9	9.4	2.5	170.3	45.4
1961	405.9	108.2	0.3	0.1	406.2	108.3
1962	883.5	235.6	10.9	2.9	894.4	238.5
1963	799.7	213.2	59.6	15.9	859.3	229.1
1964	251.8	67.1	53.5	14.2	305.3	81.3
1965	327.2	87.2	27.7	7.4	354.9	94.6
1966	770.6	205.5	15.8	4.2	786.4	209.7
1967	831.8	221.8	21.4	5.7	853.2	227.5
1968	305.7	81.5	5.1	1.4	310.8	82.9
1969	170.8	45.5	8.0	2.1	178.8	47.6
1970	228.1	59.1	22.6	6.4	250.7	65.5
1971	155.9	40.3	24.1	6.7	180.0	47.0
1972	216.7	55.3	16.8	4.9	233.5	60.2
1973	191.9	49.0	18.8	4.8	210.7	53.8
1974	180.7	45.9	14.5	3.6	195.2	49.5

Table 74. Continued

Year	Zones 1-5		Zone 6		Zones 1-6	
	Pounds	Numbers	F Pounds	Numbers	Pounds	Numbers
1975	239.9	64.5	29.8	8.5	269.7	73.0
1976	232.8	60.9	71.1	19.4	303.9	80.3
1977	241.2	61.9	2.1	0.6	243.3	62.5
1978	441.6	113.6	18.7	5.6	460.3	119.2
1979	468.2	120.3	24.8	7.9	493.0	128.2
1980	88.9	23.2	0.7	0.2	89.6	23.4
1981	66.7	21.8	0.0	0.0	66.7	21.8
1982	291.4	75.0	6.0	1.5	297.4	76.5
1983	270.2	85.0	1.2	0.3	271.4	85.3
1984	57.1	18.1	8.8	3.1	65.9	21.2
1985	111.1	35.4	0.0	0.0	111.1	35.4
1986	308.5	88.2	2.4	0.7	310.9	88.9
1987	313.6	108.7	36.4	12.3	350.0	121.0
1988	326.4	108.5	59.0	19.2	385.4	127.7
1989	143.8	51.6	0.3	0.1	144.1	51.7
1990	450.2	167.8	0.5	0.2	450.7	168.0
1991	120.8	43.1	<0.1	<0.1	120.8	43.2
1992	395.2	141.4	0.8	0.3	396.0	141.7
1993	405.2	144.7	2.8	1.0	408.0	145.7
1994	155.7	57.7	30.7	15.3	186.4	73.0
1995	171.1	61.1	124.0	49.6	295.1	110.7
1996	158.8	61.1	561.0	282.8	719.8	343.9
1997	68.5	24.9	20.3	10.2	88.8	35.1
1998	70.7	24.5	60.4	24.2	131.1	48.7
1999	117.6	39.7	41.6	13.9	159.2	53.6
2000	88.4	30.5	0.2	0.1	88.6	30.6

Table 75. Shad Angler Trips, sport Catch, and Catch/Trip on the Lower Columbia and Lower Willamette Rivers, 1974-2000.

Year	Lower Columbia River				Lower Willamette River			
	Angler Trips	Sport Catch		Catch/Trip	Angler Trips	Sport Catch		Catch/Trip
		Kept	Released			Kept	Released	
1974	4,554	12,263	--	2.7	--	--	--	--
1975	6,711	14,497	--	2.2	--	--	--	--
1976	5,614	15,877	--	2.8	--	10,700	--	--
1977	2,203	2,804	--	1.3	4,795	8,156	--	1.7
1978	3,726	15,683	--	4.2	4,024	5,756	--	1.4
1979	4,341	12,442	--	2.9	9,103	17,823	--	2.0
1980	6,005	24,280	--	4.0	11,375	15,456	--	1.4
1981	7,267	28,689	--	3.9	9,526	20,360	1,900	2.3
1982	6,632	33,914	1,428	5.3	13,401	21,691	1,900	1.8
1983	7,274	28,744	4,960	4.6	13,446	36,924	7,500	3.3
1984	7,982	22,270	1,700	3.0	10,058	19,894	3,200	2.3
1985	7,031	13,666	3,950	2.5	10,454	16,416	2,000	1.8
1986	6,475	18,914	5,045	3.7	7,629	5,857	1,000	0.9
1987	5,520	14,349	1,940	3.0	7,569	5,134	900	0.8
1988	6,744	27,455	2,566	4.5	7,003	11,485	3,800	2.2
1989	12,824	64,351	18,966	6.5	11,431	18,331	5,800	2.1
1990	18,983	113,831	21,841	7.1	11,137	23,467	10,600	3.1
1991	20,321	100,584	15,522	5.7	12,659	28,265	11,700	3.2
1992	20,977	88,295	11,506	4.8	11,314	16,295	10,300	2.4
1993	20,297	111,446	8,278	5.9	8,830	20,842	14,600	4.0
1994	16,152	103,788	10,284	7.1	13,955	33,222	14,100	3.4
1995	17,822	101,361	8,297	6.2	12,749	37,369	23,600	4.8
1996	15,935	129,759	4,516	8.4	21,200	66,400	42,500	5.1
1997	11,859	98,949	4,069	8.7	14,762	53,043	29,293	5.6
1998	13,147	83,355	5,503	6.8	14,389	37,944	24,700	4.4
1999	12,436	79,347	6,228	6.9	16,903	32,793	23,152	3.3
2000	10,790	57,953	5,664	5.9	23,823	54,348	30,900	3.6

Table 76. Sport Sturgeon Regulations on the Lower Columbia River.

Year	Daily Bag Limit	Size Limits	Other Rules
Pre-1940	None	None	None
1940	Only 3 <4'	"	"
1942	3 <4' and 2 ≥4'	"	"
1950	" "	30" min.-72" max.	"
1951	3 fish	"	"
1957	"	"	Cannot remove head or tail in field.
1958	"	"	"
1980	"	36" min.-72" max.	"
1983	"	"	<u>WA</u> --night fishing closure.
1986	2 fish	"	<u>OR</u> --eggs must remain with carcass in field.
"	"	"	<u>OR</u> --sturgeon tag w/30 annual limit.
"	"	"	<u>OR</u> --N. Bradford Island angling deadline lowered.
1989	"	"	<u>WA</u> --no gaffing.
"	"	"	<u>WA</u> --sturgeon tag w/15 annual limit.
1990	"	40" min.-72" max.	(Effective Apr 1).
"	"	"	Single-point barbless hooks.
1991	1 <48" and 1 ≥48"	"	<u>OR</u> --annual limit 15 and no gaffing.
1992	"	"	"
"	"	"	<u>WA</u> --60" max. length (effective Apr 16, 1992-Apr 15, 1993).
1994	"	"	"
1995	"	"	<u>WA</u> --Beacon Rock-Bonn. Dam sanctuary (Apr 16-June 15,1992).
1996	1 fish as of April 1	42" min.-66" max.	Annual limit 10.
1997-1998	1 fish	"	Closed to retention Sept 1-Dec 31.
"	"	"	Beacon Rock-Bonn. Dam sanctuary (closed to boat angling May and June).
1999	"	42" min.-60"max.	53,840 harvest guideline.
"	"	"	40,000 white sturgeon catch guideline.

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Table 76. Continued

Year	Daily Bag Limit	Size Limits	Other Rules
2000	1 fish	42" min.- 60"max.	<p>Oversized sturgeon may not be removed totally or in part from the water.</p> <p>Annual limit is 10 fish even if the angler holds both a Washington and Oregon license.</p> <p>Beacon Rock - Bonneville Dam sanctuary (closed to boat angling from May 1 through July 15).</p> <p>Sturgeon retention prohibited from April 1 through April 30 (from powerlines at Wauna downstream to the mouth).</p> <p>40,000 fish white sturgeon recreational harvest guideline.</p> <p>Washington sturgeon catch record card requirement statewide.</p>

Table 77. Commercial Sturgeon Regulations on the Lower Columbia River.

Year	Size Limits	Gear and Other Restrictions
1899	4' min.	Chinese gang lines prohibited (snagging setlines).
1899-1908	"	Sturgeon sales closed.
1909	"	Sturgeon sales allowed during salmon seasons.
1938	"	Beacon Rock-Bonneville Dam sanctuary established.
1950	4' min.-6' max.	
1968	" "	Zone 6 became exclusive treaty Indian fishery.
1975-1982	" "	Setline seasons allowed outside of salmon seasons.
1983-1985	" "	Setline seasons phased out.
1983-1988	" "	Target sturgeon gill-net seasons (in-lieu of setlines).
1989	" "	Target sturgeon gill-net seasons eliminated.
1990-1992	" "	9-1/4" max. mesh restriction in late fall salmon seasons.
1991	" "	<u>WA</u> --adopted 2 lbs lead/fathom of leadline rule.
1992	" "	<u>WA</u> --adopted 60" max. length for fall seasons.
1993	4' min.-66" max.	9-1/4" max. mesh adopted as permanent rule, sturgeon sales closed during last 2 weeks of fall salmon season (6,000 catch expectation for 1993 reached).
1994	" "	Harvest ceiling of 6,000 for year, sturgeon sales closed after first day of fall salmon season.
1995-1996	" "	Annual harvest ceiling of 8,000 during salmon seasons, of which not more than 6,800 (85%) may be taken in fall fisheries.
1997-1998	4' min.-60" max. (whites) 4' min.-66" max. (greens)	Target sturgeon gillnet seasons allowed. 9-3/4" max. mesh adopted as permanent rule. Annual harvest guideline of 13,460 white sturgeon. Green sturgeon target seasons not allowed.
1999	"	Annual harvest guideline of 10,000 white sturgeon.
2000	"	Annual harvest guideline of 10,000 white sturgeon.

Table 78. Columbia River Catch (in Thousands of Fish) of White Sturgeon, 1969-2000.

Year	Zones 1-5 Commercial		L. Col. Sport	Zone 6 Commercial		Treaty Subsistence 4/	Zone 6 Sport 5/	Total
	Gill Net 1/	Setline 2/		Gill Net	Setline 3/			
1969	7.5	--	6.9	0.4	--	--	--	14.8
1970	6.3	--	8.9	0.4	--	--	--	15.6
1971	7.2	--	3.7	0.7	--	--	--	11.6
1972	7.6	--	6.6	0.7	--	--	--	14.9
1973	10.7	--	12.9	1.1	--	--	--	24.7
1974	10.7	--	12.3	0.5	--	--	--	23.5
1975	13.0	1.0	18.1	0.6	--	--	--	32.7
1976	18.1	4.7	19.3	0.4	0.2	--	--	42.7
1977	8.9	0.8	25.8	0.3	0.3	--	--	36.1
1978	8.8	1.0	30.4	0.4	0.3	--	--	40.9
1979	18.5	2.0	31.4	0.6	0.7	--	--	53.2
1980	6.8	2.6	27.0	0.4	1.4	--	5.0	43.2
1981	10.8	4.1	27.2	0.3	1.8	--	5.0	49.2
1982	7.0	4.6	25.1	0.2	1.1	--	5.0	43.0
1983	9.5	2.9	36.0	0.3	1.1	--	5.0	54.8
1984	15.7	1.8	42.0	1.1	1.7	--	5.0	67.3
1985	7.6	0.8	43.8	3.0	2.0	--	5.0	62.2
1986	11.6	--	49.8	6.2	3.3	--	5.0	75.9
1987	9.7	--	62.4	7.9	3.2	--	6.7	89.9
1988	6.8	--	43.1	3.8	0.4	--	3.3	57.4
1989	5.0	--	25.4	3.1	0.4	0.5	4.0	38.4
1990	5.3	--	17.3	3.1	0.3	--	3.1	29.1
1991	3.8	--	22.7	1.2	0.3	--	2.6	30.6
1992	6.2	--	40.1	0.6	1.0	0.2	2.0	50.1
1993	8.1	--	37.9	2.0	<0.1	0.3	2.6	50.9
1994	6.4	--	33.5	1.5	0.1	0.7	2.6	44.7
1995	6.2	--	45.1	2.1	0.1	1.1	1.5	56.1
1996	8.4	--	42.8	0.5	1.1	0.3	1.5	54.6
1997	12.8	--	38.2	2.6	1.0	0.2	2.1	56.9
1998	13.9	--	41.8	2.8	0.9	0.2	3.1	62.7
1999	9.5	--	39.8	1.7	1.4	0.2	2.4	55.0
2000	10.9	--	40.5	2.2	1.1	0.3	2.5	57.5

1/ Target sturgeon gill-net seasons did not occur between 1989-96. Target seasons reoccurred in 1997. Includes Youngs Bay landings and Washington terminal fisheries' landings.

2/ Prior to 1975 minor setline landings are included in gill-net totals. Setline fishing prohibited in Zones 1-5 since 1986.

3/ Minor setline landings during 1969-75 are included in gill-net totals. Minor hook and line landings since 1988 are included in setline totals.

4/ Subsistence catch estimates are not available for years prior to 1992, except for 1989.

5/ Sport catch estimates for 1980-86 are based on limited creel surveys. Estimates are not available for years previous to 1980.

Table 79. Columbia River White and Green Sturgeon Commercial Landings (in Thousands), 1938-2000.

Year	White Sturgeon						Green Sturgeon	
	Zones 1-5 1/		Zone 6		Zones 1-6		Total	
	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.
1938	28.5	--	39.1	--	67.6	--	10.8	--
1939	45.7	--	28.2	--	73.9	--	16.1	--
1940	54.2	--	29.7	--	83.9	--	15.3	--
1941	60.6	--	24.0	--	84.6	--	10.1	--
1942	58.5	--	36.7	--	95.2	--	5.5	--
1943	86.0	--	30.1	--	116.1	--	6.1	--
1944	178.5	--	58.5	--	237.0	--	11.1	--
1945	195.6	--	70.5	--	266.1	--	19.0	--
1946	211.9	--	99.6	--	311.5	--	16.9	--
1947	215.7	--	159.4	--	375.1	--	11.8	--
1948	388.1	--	187.3	--	575.4	--	11.3	--
1949	249.2	--	142.6	--	391.8	--	18.9	--
1950	266.8	--	60.3	--	327.1	--	33.0	--
1951	225.5	--	31.9	--	257.4	--	22.3	--
1952	233.4	--	37.5	--	270.9	--	35.1	--
1953	322.7	--	23.9	--	346.6	--	34.7	--
1954	293.5	--	17.6	--	311.1	--	30.1	--
1955	202.8	--	20.1	--	222.9	--	70.8	--
1956	227.6	--	16.3	--	243.9	--	50.7	--
1957	303.6	--	8.1	--	311.7	--	112.8	--
1958	240.4	--	19.7	--	260.1	--	76.6	--
1959	167.5	--	35.9	--	203.4	--	192.2	--
1960	173.1	4.3	11.0	0.2	184.1	4.5	71.3	1.8
1961	174.0	4.4	9.3	0.2	183.3	4.6	119.2	3.0
1962	196.5	4.9	4.1	0.1	200.6	5.0	65.3	1.6
1963	207.8	5.2	4.2	0.1	212.0	5.3	50.3	1.2
1964	135.8	3.4	3.8	0.1	139.6	3.5	30.0	0.8
1965	150.1	3.8	7.9	0.2	158.0	4.0	32.4	0.8
1966	221.2	5.5	5.0	0.1	226.2	5.6	70.9	1.8
1967	151.1	3.8	8.6	0.2	159.7	4.0	46.1	1.1
1968	141.1	3.5	10.6	0.2	151.7	3.7	24.7	0.6
1969	293.4	7.5	16.6	0.4	310.0	7.9	68.4	1.7
1970	250.0	6.3	15.3	0.4	265.3	6.7	51.1	1.3
1971	280.2	7.2	31.3	0.7	311.5	7.9	52.4	1.3
1972	297.5	7.6	30.5	0.7	328.0	8.3	46.2	1.1
1973	389.5	10.7	41.5	1.1	431.0	11.8	34.5	1.3
1974	345.0	10.7	26.6	0.5	371.6	11.2	121.8	3.1

Table 79. Continued

Year	White Sturgeon						Green Sturgeon	
	Zones 1-5 1/		Zone 6		Zones 1-6		Total	
	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.	Lbs.	Nos.
1975	454.5	14.0	29.3	0.6	483.8	14.6	42.9	1.3
1976	732.7	22.8	24.4	0.6	757.1	23.4	89.5	3.0
1977	320.7	9.7	20.2	0.6	340.9	10.3	23.5	0.8
1978	288.5	9.8	20.7	0.7	309.2	10.5	48.7	1.7
1979	533.8	20.5	38.8	1.3	572.6	21.8	36.8	1.2
1980	263.2	9.4	53.4	1.8	316.6	11.2	44.6	1.7
1981	419.9	14.9	70.4	2.0	490.3	16.9	5.1	0.2
1982	353.0	11.6	44.8	1.3	397.8	12.9	24.4	0.8
1983	398.6	12.4	48.7	1.4	447.3	13.8	18.6	0.7
1984	524.4	17.5	88.3	2.8	612.7	20.3	84.5	2.7
1985	270.4	8.4	168.5	5.0	438.9	13.4	41.0	1.6
1986	373.9	11.6	322.1	9.5	696.0	21.1	180.6	6.0
1987	307.0	9.7	384.1	11.1	691.1	20.8	145.7	4.9
1988	217.1	6.8	136.6	4.1	353.7	10.9	114.1	3.3
1989	162.0	5.0	126.7	3.5	288.7	8.5	47.8	1.7
1990	176.2	5.3	115.5	3.4	291.7	8.7	64.9	2.2
1991	120.6	3.8	46.7	1.5	167.3	5.3	89.0	3.2
1992	172.4	6.2	54.1	1.6	226.5	7.8	62.3	2.2
1993	218.9	8.1	61.6	2.0	280.5	10.1	66.4	2.2
1994	167.5	6.4	46.8	1.6	214.3	8.0	6.4	0.2
1995	162.9	6.2	54.0	2.0	216.9	8.2	11.3	0.4
1996	229.5	8.4	43.3	1.6	272.8	10.0	19.6	0.6
1997	342.0	12.8	94.0	3.6	436.0	16.4	59.4	1.6
1998	380.1	13.9	96.6	3.7	476.7	17.6	31.2	0.9
1999	262.4	9.5	75.6	3.1	338.0	12.6	32.9	0.9
2000	300.4	10.9	84.8	3.3	385.2	14.2	44.3	1.2

1/ Includes Youngs Bay landings and other select area fisheries' landings.

Table 80. White Sturgeon Landings (in Thousands) by Season for the Lower Columbia River Non-Indian Commercial Fisheries, 1975-2000. 1/

Year	Winter		Summer 2/		Fall 3/		Setline 4/		Total	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	97.4	2.7	0.7	<0.1	324.3	10.3	32.1	1.0	454.5	14.0
1976	59.1	1.7	1.1	<0.1	513.4	16.4	159.1	4.7	732.7	22.8
1977	28.9	1.0	54.0	1.3	208.2	6.6	29.6	0.8	320.7	9.7
1978	67.8	2.1	0.1	<0.1	189.4	6.7	31.2	1.0	288.5	9.8
1979	87.7	2.7	--	--	392.8	15.8	53.3	2.0	533.8	20.5
1980	23.9	0.9	0.1	<0.1	166.1	5.9	73.1	2.6	263.2	9.4
1981	115.6	3.7	0.4	<0.1	189.0	7.1	114.9	4.1	419.9	14.9
1982	61.6	1.9	--	--	142.5	5.1	148.9	4.6	353.0	11.6
1983	119.5	3.8	0.1	<0.1	169.6	5.7	109.4	2.9	398.6	12.4
1984	186.2	5.9	<0.1	<0.1	287.6	9.8	50.6	1.8	524.4	17.5
1985	93.2	2.7	0.9	<0.1	150.1	4.9	26.2	0.8	270.4	8.4
1986	71.3	2.2	178.8	5.3	123.8	4.1	--	--	373.9	11.6
1987	58.6	1.6	0.7	<0.1	247.7	8.0	--	--	307.0	9.7
1988	66.2	2.0	0.4	<0.1	150.5	4.8	--	--	217.1	6.8
1989	15.6	0.5	--	--	146.4	4.5	--	--	162.0	5.0
1990	24.1	0.7	--	--	152.1	4.6	--	--	176.2	5.3
1991	26.3	0.8	--	--	94.3	3.0	--	--	120.6	3.8
1992	37.2	1.2	0.4	<0.1	134.8	5.0	--	--	172.4	6.2
1993	25.3	1.0	0.9	<0.1	192.7	7.1	--	--	218.9	8.1
1994	80.1	3.0	0.8	<0.1	86.5	3.4	--	--	167.4	6.4
1995	--	--	2.8	0.1	160.1	6.0	--	--	162.9	6.2
1996	21.7	0.8	24.4	0.9	183.3	6.7	--	--	229.4	8.4
1997	70.6	2.7	62.7	2.2	208.7	7.9	--	--	342.0	12.8
1998	70.2	2.7	85.4	3.0	224.4	8.2	--	--	380.0	13.9
1999	47.0	1.8	14.0	0.5	201.4	7.2	--	--	262.4	9.5
2000	62.0	2.3	93.7	3.3	144.7	5.3	--	--	300.4	10.9

1/ Target gill-net seasons did not occur from 1989-96.

2/ Includes Youngs Bay spring landings from 1992 to present. Also includes Tongue Pt. Basin and Blind Slough spring landings since 1998.

3/ Includes Youngs Bay and other select area fisheries' landings.

Table 81. Sturgeon Management Task Force ¹ Zone 6 Harvest Goals and Results, 1988-2000.

Management Year	Intent/Goal	Fishery	Management Actions Taken	Guidelines	Actual Harvest
1988	Reduce harvest by 22% of 1985-87 annual average	Sport	3 pools: 2/day, 40-72".	NA	3,340 Sport (40% reduction)
		Commercial	Reduce setline season (10 mo. to 4 mo.). No gill-net sales in fall after Sept 3.	NA	370 Setline
				NA	<u>3,780</u> Gill net 4,150 Commercial (51% reduction)
1989	Keep harvest at 1988 level	Sport	No change.	NA	3,980 Sport
		Commercial	Setline season 4 mo. Gill-net sales winter only.	NA	440 Setline
				NA	<u>3,060</u> Gill net 3,500 Commercial
1990	Keep harvest at 1988 level	Sport	Barbless hooks, 15 fish annual limit, no gaffing.	NA	3,060 Sport
		Commercial	Setline season 4 mo. Gill-net sales allowed winter and fall.	NA	300 Setline
				NA	<u>3,200</u> Gill net 3,500 Commercial
1991	Limit harvest of 3' to 6' to: 15% in Bonn. Pool 10% in The Dalles Pool 10% in John Day Pool	Sport	Bonn: 1/1, 40-72". TD&JD: 1/day, 48-66".	1,350 Bonn. 100 T.Dalles 100 J.Day <u>1,550</u>	2,270 200 150 <u>2,620</u> Sport
		Commercial	Setline season 2 mo. Gill-net sales winter only.	1,250 Bonn. 300 T.Dalles 100 J.Day <u>1,650</u>	1,000 460 40 <u>1,500</u> Commercial

Table 81. Continued

Management Year	Intent/Goal	Fishery	Management Actions Taken	Guidelines	Actual Harvest	
1992	Same as 1991	Sport	OR--No changes.	1,350 Bonn.	1,720	
			WA--60" max. length	100 T.Dalles	140	
			Apr 16-Dec 31.	100 J.Day	150	
				<u>1,550</u>	<u>2,010</u>	Sport

Commercial		Commercial	Setline season 5 mo.	1,250 Bonn.	1,150	
			Gill-net sales winter	300 T.Dalles	430	
			thru Mar 5 only.	100 J.Day	20	
				<u>1,650</u>	<u>1,600</u>	Commercial

Subsistence		Subsistence	Open all year, 36-72".	--	210	Subsistence

1993	Same as 1991-1992	Sport	OR--No changes.	1,350 Bonn.	2,310	
			WA--60" max. length	100 T.Dalles	160	
			Jan 1-Apr 15.	100 J.Day	140	
				<u>1,550</u>	<u>2,610</u>	Sport

Commercial		Commercial	Setline season 1 mo.	1,250 Bonn.	1,420	
			Gill-net sales winter	300 T.Dalles	580	
			only.	100 J.Day	10	
				<u>1,650</u>	<u>2,010</u>	Commercial

	Subsistence harvest ² addressed with 300 annual expectation	Subsistence	Open all year, 36-72".	300	260	Subsistence

1994	Same as 1991-1993	Sport	Bonn: 1/1, 42-66".	1,350 Bonn.	2,220	
			TD&JD: no changes.	100 T.Dalles	155	
			10 fish annual limit.	100 J.Day	235	
			Emergency closure of Zone 6 to sport re- tention Sept 16-Dec 31; then catch & release.	<u>1,550</u>	<u>2,610</u>	Sport

Commercial		Commercial	Setline season 1 mo.	1,250 Bonn.	1,175	
			Gill-net sales winter	300 T.Dalles	310	
			only.	100 J.Day	115	
				<u>1,650</u>	<u>1,600</u>	Commercial

Subsistence		Subsistence	Open all year, 36-72".	300	650	Subsistence

Table 81. Continued

Management

Management

Actual

Year	Intent/Goal	Fishery	Actions Taken	Guidelines	Harvest	
1995	Same as 1991-1994	Sport	Established retention season Jan 1-Jun 30; then catch & release. Emergency closure of Bonn. Apr 25-Dec 31 and TD&JD Jun 1-Dec 31; then catch & release.	1,350 Bonn. 100 T.Dalles <u>100</u> J.Day 1,550	1,370 50 <u>90</u> 1,510	Sport
		Commercial	Setline season 1 mo. Gill-net sales winter only.	1,250 Bonn. 300 T.Dalles <u>100</u> J.Day 1,650	1,420 310 <u>310</u> 2,040	Commercial
		Subsistence	Open all year, 36-72".	300	1,150	Subsistence
1996	Same as 1991-1995	Sport	Emergency closure of; Bonn. Apr 1-Dec 31 And TD & JD May 1-Dec 31; then catch and release.	1,350 Bonn. 100 T.Dalles <u>100</u> J.Day 1,550	1,350 60 <u>80</u> 1,490	Sport
		Commercial	Setline season 1 mo (Jan.) in all 3 pools. Additional setline Season 2 mos. (Apr 1-May 31) in Bonn & TD. Gill-net sales winter only.	1,250 Bonn. 300 T.Dalles <u>100</u> J.Day 1,650	1,000 230 <u>360</u> 1,590	Commercial
		Subsistence	Open all year, 36-72", 48"-72" during winter season.	300	482	Subsistence

Table 81. Continued

Management Year	Intent/Goal	Fishery	Management Actions Taken	Guidelines	Actual Harvest	
1997	Optimum sustained yield (OSY) management based on revised size limits and broodstock recruitment goals.	Sport	Bonn. 42-60", 1 fish	1,520 Bonn.	1,470	
			TD and JD 48-60", 1 fish.	200 T.Dalles	180	
			Emergency closure of Bonn. Apr 5-Dec 31, TD May 5-Dec 31, and JD Sept 2-Dec 31; then catch & release.	560 J.Day	480	
				2,280	2,130	Sport

		Commercial	48-60".	1,300 Bonn.	1,850	
			Setline season 1 mo (Jan.) in all 3 pools.	400 T.Dalles	500	
			Additional setline season in JD 2-1/2 mos. (Apr 7-June 23). Gill-net sales winter only.	1,160 J.Day	1,260	
				2,860	3,610	Commercial

		Subsistence	Open all year, 48-60"	300	230	Subsistence

1998	Same as 1997			1,520 Bonn.	1,630	
				600-800 T.Dalles	860	
				560 J.Day	600	
			Emergency closure of Bonn. Apr 20-Dec 31, TD June 8-Dec 31, and JD Nov 23-Dec 31; then catch & release.	2,680-2,880	3,080	Sport

		Commercial		1,300 Bonn.	1,460	
			Setline season 1 mo (Jan.) in all 3 pools.	1,000-1,200 T.Dalles	1,100	
			Additional setline season in JD 3 mos. (March 23-June 30). Gill-net sales winter only.	1,160 J.Day	1,100	
				3,460-3,660	3,660	Commercial

		Subsistence	Open all year, 48-60"	300	230	Subsistence

Table 81. Continued

Management

Management

Actual

Year	Intent/Goal	Fishery	Actions Taken	Guidelines	Harvest	
1999	Same as 1997-1998	Sport		1,520 Bonn.	1,240	
				600-800 T.Dalles	690	
				560 J.Day	420	
			Emergency closure of Bonn. Apr 17-Dec 31, TD June 12-Dec 31; then catch & release. Gillnet sales during winter only.	2,680-2,880	2,350 Sport	

		Commercial		1,300 Bonn.	1,280	
				Setline season 1 mo (Jan.) in all 3 pools.	1,000-1,200 T.Dalles	1,050
				Additional setline season in Bonn. and JD Apr. 1-July 31. Additional setline Season in JD Oct. 11-Dec 31.	1,160 J.Day	760
				3,460-3,660	3,090 Commercial	

		Subsistence	Open all year, 48-60"	300	240 Subsistence	

2000	Same as 1997 - 1999	Sport		1,520 Bonn.	1,262	
				600-800 T.Dalles	809	
				560 J.Day	434	
			Emergency closure of Bonn. Apr 8 - Dec 31, TD June 19 - Dec 31, Catch and release only.	2,680-2,880	2,505 Sport	

		Commercial		1,300 Bonn.	1,177	
				Setline season from Jan 1 - Jan 31 in all 3 pools.	1,000-1,200 T.Dalles	1,342
				Additional setline season in Bonneville from March 20-June 10. Additional setline seasons in John Day from March 20-July 31; August 8-August 20 and October 2 - December 31.	1,160 J.Day	786
				3,460-3,660	3,305 Commercial	

		Subsistence	Open all year, 48-60"	300	343 Subsistence	

¹ Sturgeon Management Task Force formed in 1987 to review Zone 6 sturgeon stock status and oversee harvest management.

² Although subsistence fishery was always open all year with 36-72" size limits, Task Force did not quantify or account for harvest until 1993.

Table 82. White Sturgeon Landings (in Thousands) by Season for the Columbia River Zone 6 Treaty Indian Commercial Fisheries, 1975-2000.

Year	Winter		Summer		Fall		Setline 1/		Total	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1975	0.1	<0.1	--	--	29.2	0.6	--	--	29.3	0.6
1976	1.3	<0.1	1.6	<0.1	12.1	0.3	9.4	0.2	24.4	0.6
1977	2.6	0.1	2.7	0.1	5.7	0.2	9.2	0.2	20.2	0.6
1978	0.6	<0.1	0.4	<0.1	10.8	0.4	8.9	0.3	20.7	0.7
1979	9.6	0.3	--	--	9.2	0.3	20.0	0.7	38.8	1.3
1980	6.3	0.2	<0.1	<0.1	5.0	0.2	42.1	1.4	53.4	1.8
1981	4.4	0.1	0.4	<0.1	4.6	0.1	61.0	1.8	70.4	2.0
1982	3.7	0.1	0.1	<0.1	2.5	0.1	38.5	1.1	44.8	1.3
1983	2.2	0.1	0.3	<0.1	7.0	0.2	39.2	1.1	48.7	1.4
1984	12.4	0.4	<0.1	<0.1	22.5	0.7	53.4	1.7	88.3	2.8
1985	35.9	1.1	5.1	0.1	59.9	1.8	67.6	2.0	168.5	5.0
1986	62.9	1.7	4.2	0.1	130.7	4.3	124.3	3.4	322.1	9.5
1987	108.6	3.1	14.0	0.4	147.3	4.4	114.2	3.2	384.1	11.1
1988	49.8	1.6	7.5	0.2	66.9	2.0	12.4	0.3	136.6	4.1
1989	109.8	3.1	--	--	0.1	<0.1	16.8	0.4	126.7	3.5
1990	45.2	1.4	0.4	<0.1	61.1	1.7	8.8	0.3	115.5	3.4
1991	38.2	1.2	--	--	<0.1	<0.1	8.5	0.3	46.7	1.5
1992	21.9	0.6	--	--	--	--	32.2	1.0	54.1	1.6
1993	60.7	2.0	--	--	0.8	<0.1	0.1	<0.1	61.6	2.0
1994	43.8	1.5	--	--	--	--	3.0	0.1	46.8	1.6
1995	51.4	2.0	--	--	0.3	<0.1	2.3	0.1	54.0	2.1
1996	13.1	0.5	--	--	0.3	<0.1	29.9	1.1	43.3	1.6
1997	64.9	2.6	--	--	--	--	29.1	1.0	94.0	3.6
1998	73.3	2.8	--	--	0.1	<0.1	23.2	0.8	96.6	3.7
1999	43.5	1.7	--	--	--	--	32.0	1.4	75.5	3.1
2000	58.1	2.3	--	--	--	--	26.7	1.1	84.8	3.4

1/ Minor hook and line landings since 1988 are included in setline totals.

Table 83. Walleye Angler Trip and Sport Catch Estimates for the Lower Columbia River, 1982-2000.

Year	Angler Trips	Catch		Catch/Trip
		Kept	Released 1/	
1982	--	126	--	--
1983	--	200	--	--
1984	1,081	541	--	0.50
1985	553	155	--	0.28
1986	--	few	--	--
1987	--	few	--	--
1988	--	few	--	--
1989	729	340	--	0.47
1990	1,627	418	--	0.26
1991	1,210	361	--	0.30
1992	1,407	437	--	0.31
1993	2,271	603	--	0.27
1994	7,488	1,872	1,123	0.40
1995	6,248	3,124	NA	0.50
1996	5,836	1,728	NA	0.30
1997	3,122	1,068	NA	0.34
1998	1,470	331	49	0.26
1999	1,696	374	202	0.34
2000	1,339	252	97	0.26

1/ NA denotes data not available. Includes sublegals.

Table 84. Partial Walleye Sport Catch Estimates for Bonneville, The Dalles, and John Day Pools, 1981-2000. 1/

Year	Bonneville Pool	The Dalles Pool	John Day Pool	Survey Total
1981	0	2,062	164	2,226
1982	NS	NS	NS	NS
1983	NS	NS	463	463
1984	NS	NS	349	349
1985	NS	NS	186	186
1986	NS	NS	291	291
1987	NS	1,660	NS	1,660
1988	394	3,480	NS	3,874
1989	1,066	7,556	1,718	10,340
1990	1,282	NS	3,102	4,384
1991	NS	NS	2,209	2,209
1992	121	1,000	1,780	2,901
1993	82	2,200	2,656	4,938
1994	206	1,972	2,484	4,662
1995	792	7,491	3,275	11,558
1996	288	1,616	1,092	2,996
1997	60	1,563	7,230	8,853
1998	597	3,691	14,691	18,979
1999	187	896	1,448	2,531
2000	127	564	2,140	2,831

1/ Partial catch estimates of kept fish based on results of limited creel surveys conducted during predator/prey and sturgeon research programs. NS denotes pool not surveyed.

Table 85. Treaty Indian Commercial Landings of Walleye by Season in Zone 6, 1989-2000.

Year	Winter Season		Fall Season		Total	
	Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
1989	6,945	1,021	2,344	307	9,289	1,328
1990	872	127	1,281	194	2,153	321
1991	1,465	224	2,870	521	4,335	745
1992	2,449	352	4,367	678	6,816	1,030
1993	1,259	180	4,165	692	5,424	872
1994	1,480	187	1,375	228	2,855	415
1995	7,438	728	1,443	235	8,881	963
1996	2,644	254	1,257	175	3,901	429
1997	1,747	194	735	82	2,482	276
1998	1,077	120	283	30	1,360	150
1999	1,431	156	162	25	1,593	181
2000	3,335	354	260	30	3,595	384