

STATUS REPORT  
COLUMBIA RIVER FISH RUNS AND COMMERCIAL FISHERIES,  
1938-70  
1974 ADDENDUM

Fish Commission of Oregon  
Washington Department of Fisheries

10962

January 1975



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## PREFACE

Volume 1, Number 1 of the Status Report summarized information since 1938 pertaining to the fish runs and commercial fisheries of the Columbia River. New volumes will be published at 5-year intervals summarizing data for the previous 20 years. An addendum will be prepared in each of the intervening years between volumes. Volume 1, Number 5 is the 1974 addendum to Volume 1.

## THE COMMERCIAL FISHERY IN 1974

This is a joint staff report of the Fish Commission of Oregon (FCO) and Washington Department of Fisheries (WDF). It summarizes the landings made by the commercial fishery in the Columbia River during 1974. It also presents information pertinent to the fish runs and seasons. Landings of salmon and steelhead are presented by fishing seasons. Other species are discussed on an annual basis.

The number of salmonids entering the Columbia River decreased from a good run of 1.8 million fish in 1973 to 1.3 million fish in 1974. The commercial gillnetters experienced poor fishing in all seasons (Table 1). The upriver spring chinook run was poor, and only 1 day of commercial fishing was allowed below Bonneville Dam in May. The summer chinook run has not been fished on since 1964 and was the smallest on record. There was no season allowed on sockeye for the 2nd year in a row due to a poor run. The coho run was slightly below the 1964-73 average, and the upriver fall chinook was below average for the past 10 years. The 1974 summer steelhead run was the second poorest in history; while the early segment (Group A) was slightly above average, the later segment (Group B) was the worst on record.

### Winter Season

The 1974 winter season below Bonneville opened on February 24 and closed March 5 (9 days) as established at a public hearing on January 23, 1974. The season for the treaty Indians above Bonneville opened February 1 and closed March 5 (33 days).

In accordance with the 1969 Oregon legislation classifying steelhead as a game fish, a 7 1/4" minimum mesh restriction was enforced below Bonneville Dam to reduce the steelhead catch while allowing a harvest of salmon.



Table 1. Preliminary Landings of Salmon, Steelhead, and Shad for All Seasons during 1974

Season	Species	Landings (1,000's)					
		Zones 1-5		Zone 6		Total Landings	
		Pounds	Numbers	Pounds	Numbers	Pounds	Numbers
Winter	Chinook	277.0	13.3	0.7	--	277.7	13.3
	Steelhead	24.6	2.2	0.2	--	24.8	2.2
Spring	Chinook	135.1	8.4	270.8	17.5	405.9	25.9
	Steelhead	1.5	0.2	1.6	0.2	3.1	0.4
	Shad	0.4	0.1	--	--	0.4	0.1
Summer	Chinook	--	--	--	--	--	--
	Steelhead	--	--	--	--	--	--
	Shad	178.5	45.3	14.5	3.6	193.0	48.9
Early Fall	Chinook	1,225.7	52.2	44.6	3.0	1,270.3	55.1
	Sockeye	--	--	0.2	--	0.2	--
	Coho	186.9	20.1	1.6	0.3	188.5	20.4
	Steelhead	30.2	2.6	37.0	4.7	67.2	7.3
Late Fall	Chinook	755.5	45.1	919.1	50.9	1,674.6	96.0
	Coho	2,254.2	246.2	39.3	6.4	2,293.5	252.6
	Steelhead	12.6	1.2	77.7	8.2	90.3	9.4
	Chum	10.7	0.9	--	--	10.7	0.9
Total Salmonids		4,914.0	392.4	1,392.8	91.2	6,304.5	483.6
Total Shad <sup>1/</sup>		178.9	45.4	14.5	3.6	193.4	49.0

<sup>1/</sup> All special set-net fisheries included in summer season total.

Steelhead landings totaled 24,600 lbs (2,200 fish) below Bonneville. This was similar to 1973 (2,100 fish) and about 74% below the 8,200 fish average during 1959-69 before mesh restrictions were imposed. Some fishermen voluntarily returned live steelhead to the river and many used 8" mesh or larger gear.

The Indian fishery landed only 174 lbs (22 fish) of steelhead. Few winter steelhead and hold-over summer steelhead are available to the Indian fishery during the winter season. Biologists counted only 16 nets in Zone 6, approximately one-half that of 1973.

### Spring Season

Four hearings were held (April 17, 30, May 10 and 14) regarding the status of the spring chinook run and possible spring season commercial fishing. The joint staffs did not recommend commercial seasons at any of the hearings. However, at the May 10 hearing the joint agencies set a 24-hour gill-net season for below Bonneville (May 10-11) and a 48-hour season (May 10-12) for the treaty Indians above Bonneville. These were the shortest spring seasons ever set in the Columbia River. In addition to the 2-day season set in Zone 6 by the agencies, the Yakima tribe fished 13 days under their own regulations from April 10 to May 1 on the Washington side of the river.

### Sport Fishing

The estimated sport catch in the main-stem Columbia below Bonneville was 16,200 fish, the smallest in the past 6 years. Because of the small run size and poor passage conditions, sport fishing for salmon was closed for Washington anglers on May 13 and for Oregon anglers on May 16. The sport catch of 28,000 chinook in the lower Willamette River was the best on record.

### Chinook

An estimated 405,800 lbs of chinook representing 25,900 fish were landed commercially during the 1974 spring season. Lower river fishermen landed 135,100 lbs or 8,400 fish, the lowest on record. The Indian fishery landed 108,100 lbs (7,000 fish) during the official 2-day season, and 162,700 lbs (10,500 fish) during the 13-day Yakima season for a total of 270,800 lbs (17,500 fish).

The upriver run of spring chinook entering the Columbia River is estimated by adding the count at Bonneville Dam to the sport and commercial catches made below the dam. The count at Bonneville Dam indicated that

134,500 fish passed; however, two independent studies showed that 30-36% of those counted fell back over the dam. When the count was adjusted to compensate for those falling back and being counted more than once, the corrected number passing over the dam was reduced to 86,100 fish. By adding this count to the commercial catch of 8,400 fish and the angling catch of 16,200, the upriver run was computed to be 110,700 spring chinook, the smallest since 1945.

The escapement of upriver spring chinook above the commercial fishery in 1974 was 68,600 fish. This resulted in a count of only 17,300 fish at Little Goose Dam, the uppermost dam on the Snake River, far short of the goal of 40,000 fish. Spawning ground surveys reflected this poor escapement. Counts in Idaho were about 50% of average, and those in eastern Oregon tributaries were also below normal. The index count of chinook on the Tucannon River was the worst on record, and Clearwater River redd counts were about one-half of average. In the Salmon River system, only 4,000 chinook returned to the Circle C Hatchery on Rapid River. Redd counts in the tributaries were the lowest on record.

In contrast to the poor Snake River run, the count at Priest Rapids Dam on the upper Columbia River was 11,000 fish compared to an average of 8,600 fish. The Wenatchee River system showed good index counts with an estimated 1,500 chinook returning to Leavenworth National Fish Hatchery and to Icicle Creek. Returns to the Entiat, Twisp, and Methow rivers were below average. The Yakima River system had the poorest spawning index counts on record.

In the Columbia gorge, the return of 1,563 fish to Carson Hatchery on the Wind River was down about 30% from 1973. The return of 1,454 fish to the Klickitat Hatchery was about 300% of average, but spawning ground counts were poor with only 26 fish seen in 20 miles of stream.

In the lower Columbia River, 20,100 fish returned to the Cowlitz Hatchery compared to an average of about 10,000 fish. In 1973 approximately 50% of the fish were jacks compared to 25% jacks in 1974. The Kalama River Hatchery had 483 fish return, about double that of 1973. The Willamette River run of 74,600 fish was the third largest on record.

The minimum size of the spring chinook run entering the Columbia River was 218,700 fish. This estimate includes the upriver spring run, winter season gill-net catch, Cowlitz Hatchery returns (Mayfield Dam count) and the estimated Willamette River run.

#### Outlook for 1975

The outlook for spring chinook in 1975 is not optimistic. Only 1,300 jacks were counted at Ice Harbor Dam in 1974, the fewest since 1965, suggesting a poor return of 4-year-old fish in 1975. Because of the small run in 1974, most of which were 4-year-old fish, a poor return of 5-year olds is also expected. In addition, the run must pass another dam this year as Lower Granite is scheduled for completion this spring.

Studies by the National Marine Fisheries Service indicated that the failure of the 1974 spring and summer chinook runs and the predicted poor runs for 1975 are the direct result of a severe loss of smolts emigrating from the Snake River in 1972-73. Because of the anticipated poor run, it is probable that no sport or commercial fishing will be allowed during April or May.

#### Summer Season

No commercial fishing occurred during June and July in 1974, other than the limited shad fishery on the Camas-Washougal Reef and some permit-controlled landings of shad by set net and dip net in restricted areas below Bonneville Dam. The lack of a summer season was a direct result of

small runs of summer chinook, sockeye salmon, and summer steelhead destined for areas above Bonneville Dam. Sport fishing for salmon in the main-stem Columbia River was also closed during the June-July period.

#### Chinook

The summer chinook run totaled 34,000 fish at Bonneville Dam, the smallest run on record. The run size has been adjusted because of fall-back at Bonneville Dam. Ensuing fish counts further upstream were all record lows: The Dalles, 30,300; John Day, 25,900; McNary, 25,800; Ice Harbor, 10,300; and Priest Rapids, 13,700 fish.

Results of spawning ground surveys in Idaho and eastern Washington index areas reflected the low fishway counts. In eastern Washington, surveys in six tributaries covering 163 miles revealed 1,608 redds, 28% below average. Redd counts were 50% below average in the Salmon River drainage in Idaho.

An estimated large loss of outmigrants indicates a small run again in 1975.

#### Sockeye

As with summer chinook, the 1974 run of sockeye was small and no fishery was permitted. Escapement as measured at Priest Rapids and Ice Harbor Dam was only 35,600 sockeye.

Subsequent spawning ground index counts totaled 4,387 fish in the Wenatchee River area and 3,080 fish in the Okanogan River spawning area in Canada. The combined count for these areas was less than half (37%) that observed since 1964.

Some increase in the run can be expected for 1975 based on improved quality of the 1971 spawning over that observed in 1970.

### Steelhead

The summer steelhead run of 146,100 fish in 1974 was the second poorest in history. This small run was believed due to large losses of juveniles from the Snake River during the spring outmigration in 1972 and 1973.

Commercial landings of steelhead in 1974 totaled only 4,000 fish below Bonneville and 12,900 fish in the Indian fishery above Bonneville. The combined harvest of 16,900 steelhead was the smallest on record and was a result of no summer fishing season and a continued mesh restriction during a shortened August fishery below Bonneville Dam, in addition to the low fish abundance.

Sport catch estimates, while not complete for this period, indicated a lower Columbia River catch of 5,500 steelhead during the summer-fall period.

The estimated escapement from this poor run was 123,700 fish, 10% below average; however, the actual escapement appeared to be far less. Fish counts were at record low levels at each dam above Bonneville Dam. The season counts at Ice Harbor Dam (11,200 fish) and at Priest Rapids Dam (2,900 fish) were the poorest on record. These low counts reflect poor survival of steelhead outmigrants from upstream areas. Although additional fish are counted past these dams in the spring of 1975, the overall upper river escapement from the 1974 run will remain inadequate.

The same migration problems believed responsible for the low 1974 run will also have an impact on a portion of the return in 1975.

### Fall Season

The fall gill-net season below Bonneville Dam has been divided into two periods. In 1974 the early fall season was from August 11-23 (10 days)

with a 7 1/4" minimum mesh restriction for the entire period above the Longview Bridge and from August 11-16 downstream from the Longview Bridge. Following a closure from August 23 to September 17 (25 days) to provide for escapement, the late fall period opened September 17 and closed November 1 (29 days). A price dispute delayed fishing until September 22.

The fall Indian fishing season was also divided into two segments. The early portion of the season opened August 8 and closed September 7 (30 days). A 5-day closure was scheduled for September 7-12 to protect fall chinook destined to hatcheries in the Bonneville pool and to allow for wild fish escapement. Because of poor passage at dams and delayed arrivals at hatcheries the closure was extended for 3 days from September 7-15 (8 days). The late season extended from September 15 to October 18 (33 days). No mesh restriction was imposed on the Indian fishery.

#### Chinook

About 1.5 million lbs (97,300 fish) of fall chinook were landed by non-Indian fishermen below Bonneville Dam. This was the smallest catch recorded since 1938. The early fall season catch in August was 52,200 fish, and the late fall season catch was 45,100 fish. The Indian fishery between Bonneville and McNary dams landed 963,700 lbs (53,800 fish) of fall chinook, which was down from last year, but which exceeded the 10-year average of 38,700 fish. Indian net counts rose from 411 in 1973 to a peak count of 474 in 1974.

The 1974 upriver run was about 238,200 fish. This was below the 1964-73 average of 291,500 fish. The minimum run of 353,300 fish was one of the smallest since 1963.

The escapement of fall chinook to areas above Bonneville Dam was 132,100 fish but only about 75,100 were adults. This was below the escapement goal of 90,000-110,000 adult fish.

Closure of the lower river fishery 2 days earlier than usual and extension of the planned 5-day closure above Bonneville to 8 days, allowed an adequate chinook return to hatcheries, but natural spawning was below average in tributaries like the Wind or Big White Salmon rivers. The Klickitat River fall chinook spawning ground counts were the lowest on record showing 1 fish/mile.

Escapement of natural spawners in the upper watershed was down as shown by below-average counts at McNary Dam, Ice Harbor counts of one-fourth the 10-year average, and Priest Rapids counts of less than one-half the 10-year average. Redd counts in the Hanford reach of the Columbia River were the poorest in the last 10 years.

Fall chinook returns to Willamette River have risen from nothing in 1965 to 34,200 fish in 1974. The success in this salmon introduction program resulted from reduced pollution in the Willamette River, new fish ladders at Willamette Falls, and expanding fish production in the basin.

Returns to the Kalama and Washougal rivers provided excellent natural seeding to these lower river Washington tributaries. Returns to all lower river hatcheries were adequate, but North Lewis River natural stocks had below average spawning counts.

#### Coho

Coho landings in 1974 were slightly above the 10-year average since the expanded production that began in 1964. Landings of 20,100 coho were made in August. Some 2.3 million lbs (246,200 fish) were landed from the lower river during the late fall season and 40,900 lbs (6,600 fish) from the above Bonneville Indian fishery. The minimum run was above the 10-year average.



Returns to 18 coho hatcheries in 1974 totaled 160,549 adults and 39,134 jacks. This poor jack count, and the ratio of jacks in 1970-73 to adults returning 1 year later (1:1.5), indicates a poor return of adults in 1975 in spite of continued high output from hatcheries.

Escapement of late-run wild coho was poor with only 21 fish seen in 3.6 miles of index spawning streams.

#### Chum

Chum catches were very sparse with only 10,700 lbs recorded. Surveys in 6.5 miles of index spawning streams showed only 43 fish per mile, the poorest since counts were begun in 1950.

#### Other Fish

##### Shad

No shad seasons were established for the main-stem Columbia River during 1974 as a result of the poor summer chinook and sockeye salmon runs. Some shad were caught, however, during the spring and fall seasons, and in special area and special permit fisheries. Indians were allowed to sell any shad captured in dip nets while subsistence fishing.

About 42,800 roe shad were landed below Bonneville Dam and approximately 3,600 roe shad were caught by the Indian fishery. Buck shad landed during 1974 brought the annual total to about 49,000 shad.

Only 98,900 shad were counted at Bonneville while 315,400 were counted at The Dalles Dam during 1974. Experimental gillnetting in the navigation lock at Bonneville Dam indicated many shad were using that route to pass the dam instead of the fish ladders. A substantial population of shad also spawns below Bonneville Dam.

Smelt

Smelt landings of 3.9 million lbs in 1974 were the best since 1949. The main Columbia River trawl, gill-net, and dip-net catch of 868,400 lbs was the best since 1956.

Smelt gillnetters fished from early January into March. Peak landings occurred in early February. Landings for the various types of smelt fishing in the main Columbia River were gill net - 155,800 lbs, otter trawl - 673,700 lbs, and dip net - 38,800 lbs.

The Cowlitz River was again the major tributary producing smelt with a token amount (500 lbs) taken in the Lewis River. Smelt also returned in large quantities to the Sandy River in Oregon for the first time since 1957. Commercial dippers took 11,950 lbs and sport dipping was excellent.

Sturgeon

Sturgeon are landed during all commercial seasons. Most of the catch is made with salmon nets, but a few individuals fish successfully with more heavily weighted large-mesh nets or bait set lines.

White sturgeon landings in the non-Indian fishery amounted to 345,800 lbs, the third largest since 1938. Sturgeon landings in the Indian fishery of 26,600 lbs was average for the last 5 years and down from excellent landings of 1973 (41,500 lbs).

Green sturgeon landings of 121,800 lbs, the second largest since 1938, were about 300% above the 1938-73 average.

## APPENDIX

Introduction

The tables in the appendix are not referred to in the text. They are included to provide statistics on the fish runs and the commercial fishery in 1974. Tables 2-30 are identical to those listed in previous numbers of Volume 1, with the exception of Table 22 which was changed in content and format. Final values for 1973 and preliminary data for 1974 are included.

Table 1 in this report appears in the text and provides a resumé of salmon, steelhead, and shad landings by season. All landing statistics for 1974 are preliminary and designated as such by parentheses in the tables.

For sources of landing statistics, average weight values, and methods used for various computations, refer to the Appendix in Volume 1, Number 1 (January 1971).

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Table 2. Total Commercial Landings (In Thousands of Pounds)  
of Salmon and Steelhead From the Columbia River,  
1938-74

Year	Chinook	Sockeye	Coho	Chum	Steelhead	Total
1938	12,418.5	424.6	2,311.0	1,915.4	1,764.4	18,833.9
1939	13,498.8	269.8	1,529.7	1,174.4	1,438.5	17,910.5
1940	13,516.1	361.9	1,373.2	1,253.5	2,815.4	19,320.1
1941	23,238.5	505.7	1,045.0	4,149.8	2,663.7	31,602.7
1942	18,679.1	192.4	644.5	5,191.1	1,839.1	26,546.2
1943	11,426.5	146.1	706.3	959.9	1,514.5	14,753.3
1944	14,059.6	54.8	1,533.3	275.4	1,720.1	17,643.2
1945	12,972.1	8.7	1,835.5	588.8	1,963.5	17,368.6
1946	14,277.8	128.5	1,059.6	886.6	1,725.6	18,078.1
1947	17,302.7	718.3	1,498.1	496.2	1,648.7	21,664.0
1948	17,352.3	95.8	1,174.7	1,044.8	1,579.0	21,246.6
1949	10,768.5	24.0	899.2	545.0	814.0	13,050.7
1950	10,421.7	169.2	1,048.0	700.2	964.8	13,303.9
1951	10,036.3	169.4	968.0	532.3	1,207.2	12,913.2
1952	7,271.1	608.7	1,074.0	308.6	1,461.9	10,724.3
1953	6,966.6	146.2	457.5	249.2	1,901.0	9,720.5
1954	5,312.7	243.4	303.4	320.0	1,467.5	7,647.0
1955	8,581.9	200.4	598.8	125.6	1,297.5	10,804.2
1956	8,178.5	287.1	460.0	45.7	811.8	9,783.1
1957	5,918.9	240.2	390.7	32.1	741.1	7,323.0
1958	6,434.0	723.5	167.6	89.3	699.9	8,114.3
1959	4,594.3	635.8	119.5	42.9	672.6	6,065.1
1960	3,928.0	394.1	159.1	15.3	722.5	5,219.0
1961	4,160.2	158.0	382.6	17.3	715.7	5,433.8
1962	5,467.3	51.7	600.0	48.1	723.4	6,890.5
1963	4,346.1	48.8	501.1	15.3	972.2	5,883.5
1964	4,484.0	68.2	1,963.5	23.9	425.0	6,964.6
1965	6,142.9	22.9	1,901.8	6.1	510.1	8,583.8
1966	3,612.2	17.2	4,389.1	11.0	393.3	8,422.8
1967	4,974.1	195.1	3,817.9	9.7	445.2	9,442.0
1968	4,097.1	89.6	962.2	3.4	427.5	5,579.8
1969	5,775.9	104.5	1,663.3	4.0	490.3	8,038.0
1970	6,461.7	55.7	5,745.6	8.0	308.4	12,579.4
1971	5,967.2	285.6	2,277.9	5.9	467.5	9,004.1
1972	5,684.6	275.6	1,239.4	16.0	667.1	7,882.7
1973	8,552.4	15.9	1,904.7	18.0	634.1	11,125.1
1974	(3,628.5)	(0.2)	2,481.9	(10.7)	(185.4)	(6,306.7)

Table 3. Numbers of Columbia River Gill-Net Licenses Issued, 1938-74

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	203	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	(500) <sup>1/</sup>	861	(1,361) <sup>1/</sup>

<sup>1/</sup> The Oregon and combined values are estimates as Oregon now issues a general commercial fishing license applicable to all types of gear.

Table 4. Numbers of Winter Steelhead (In Thousands) That Can be Accounted for by Run Year in the Columbia River System, 1953-54 - 1971-74 <sup>1/</sup>

Run Year	Catch		Dam Counts				Hatchery Returns			
	Commercial Gill Net	Sport and Wash.)	Marmot (Sandy)	North Fork (Clackamas)	Mayfield (Cowlitz)	Willamette Falls <sup>2/</sup>	Big Creek (Oregon)	Klaskanine (Oregon)	Eagle Creek (Clackamas)	Total (Minimum Run Size)
1953-54	23.4	48.2	-	-	-	5.2	-	-	-	76.9
1954-55	16.4	31.3	-	-	-	2.1	-	-	-	49.8
1955-56	11.6	38.4	2.2	-	-	3.8	-	-	-	56.0
1956-57	10.7	30.9	2.1	-	-	7.5	-	-	-	51.2
1957-58	6.8	37.7	3.1	1.6	-	5.5	-	-	0.1	54.8
1958-59	7.0	34.2	2.4	0.5	-	3.7	0.2	-	0.4	48.4
1959-60	6.3	49.1	1.6	1.2	-	2.2	0.3	-	0.3	61.0
1960-61	9.6	34.4	3.1	2.2	-	6.5	0.1	-	0.6	56.5
1961-62	9.9	57.7	4.0	4.4	10.7	5.9	0.3	0.3	1.2	94.4
1962-63	7.8	54.1	3.3	2.3	7.5	1.0	0.4	0.2	2.1	78.7
1963-64	5.4	52.6	3.9	1.9	11.5	0.9	2.5	0.0	0.7	79.4
1964-65	9.5	46.4	5.5	1.5	13.1	1.5	1.1	-	1.4	80.0
1965-66	8.0	76.6	3.6	1.3	11.2	14.7	4.3	-	0.6	120.3
1966-67	8.4	76.4	4.7	0.7	19.0	14.6	4.4	4.2	1.3	133.7
1967-68	8.4	70.6	2.9	0.8	14.1	6.4	5.6	3.0	0.3	112.1
1968-69	12.8	79.0	3.2	2.3	10.9	8.4	4.9	1.9	0.5	123.9
1969-70	3.6	47.0	2.4	2.8	3.5	4.7	2.5	1.2	0.0	67.7
1970-71	5.0	92.3	-	4.4	6.0	26.3	3.2	0.3	0.1	138.6
1971-72	3.6	126.2	-	2.8	6.0	23.2	1.8	1.5	1.1	170.2
1972-73 <sup>3/</sup>	2.3	91.7	-	1.9	6.8	17.9	2.6	1.0	1.1	125.3
1973-74	(2.4)		-	1.5	8.5	14.8	3.5	1.1	0.4	--

<sup>1/</sup> No data available on escapements into the major Washington tributaries (Grays, Ellokamin, Toutle, Kalama, Lewis, and Wasliougal rivers) or escapements into minor tributaries in Washington (Abermathy, Cedar Creek, Couveeman, Germany Creek) or minor Oregon tributaries (Lewis & Clark, Clatskanie, Scappoose Bay tributaries, Lower Clackamas tributaries).

<sup>2/</sup> Counts prior to 1965-66 represent steelhead passage during periods of chinook emmeration (minimal values).

<sup>3/</sup> Incomplete data.



Table 5. Columbia River Commercial Fishing Seasons  
Below Bonneville Dam, 1938-74 <sup>1/</sup>

Year	Days Open to Fishing					Total
	January March	April May	June July	August	September December	
1938	59.50	26.50	52.00	21.50	112.50	272.00
1939	59.50	26.50	52.00	21.50	112.50	272.00
1940	60.50	26.50	52.00	21.50	112.50	273.00
1941	59.50	28.50	52.00	21.50	112.50	274.00
1942	59.50	25.50	53.00	21.50	112.50	272.00
1943	31.00	16.25	35.25	21.25	96.00	199.75
1944	41.25	18.00	42.75	22.50	96.00	220.50
1945	40.25	18.00	42.75	22.50	96.00	219.50
1946	31.00	16.25	42.75	21.50	96.00	207.50
1947	31.00	16.25	42.75	21.50	96.00	207.50
1948	32.00	25.25	33.75	21.25	96.00	208.25
1949	31.00	26.50	32.50	22.50	68.25	180.75
1950	31.00	21.00	31.50	22.50	68.25	174.25
1951	31.00	21.00	31.50	22.50	68.25	174.25
1952	32.00	21.00	22.75	21.50	60.00	157.25
1953	31.00	21.75	19.00	21.50	60.00	153.25
1954	31.00	21.75	19.00	21.25	60.00	153.00
1955	31.00	21.75	23.25	22.50	60.00	158.50
1956	32.00	23.00	22.75	18.25	44.00	140.00
1957	31.00	21.75	22.25	18.75	31.00	124.75
1958	31.00	11.75	26.00	16.50	30.00	115.25
1959	14.00	22.00	24.50	17.25	20.00	97.75
1960	15.00	23.25	25.25	18.50	19.00	101.00
1961	14.00	26.25	26.50	18.50	16.00	101.25
1962	14.00	26.25	25.75	18.50	17.00	101.50
1963	14.00	22.00	26.50	17.50	18.00	98.00
1964	15.00	21.25	7.50	17.25	22.00	83.00
1965	14.00	16.25	2.00	17.75	26.75	76.75
1966	14.00	21.75	1.00	20.75	22.75	80.25
1967	14.00	10.25	7.75	15.75	22.00	69.75
1968	19.00	7.75	6.00	12.00	30.00	74.75
1969	16.00	10.00	6.50	18.50	27.25	78.25
1970	14.00	16.00	4.00	13.00	35.00	82.00
1971	14.00	10.00	6.00	13.00	34.00	77.00
1972	15.00	19.00	6.00	12.00	27.00	79.00
1973	14.00	17.00	--	10.00	32.00	73.00
1974	9.00	1.00	--	10.00	29.00	49.00

<sup>1/</sup> Does not include commercial seasons for coho in Youngs Bay or for shad and smelt.

Table 6. Total Commercial Landings of Salmon and Steelhead (In Thousands of Pounds) Made by Indians Fishing With Dip Nets at Celilo Falls, 1938-56, and With Set Nets Above Bonneville Dam, 1957-74

Year	Pounds Landed					Total
	Chinook	Sockeye	Coho	Steelhead		
<u>Celilo Falls</u>						
1938	1,311.5	86.5	<u>1/</u>	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
<u>Above Bonneville Dam</u>						
1957	55.9	0.5	0.2	1.2		57.8
1958	150.4	19.1	1.7	28.3		199.5
1959	32.1	2.6	0.2	4.8		39.7
1960	34.6	1.9	1.1	7.8		45.4
1961	116.4	0.4	3.5	14.4		134.7
1962	145.0	12.4	17.5	3.4		178.3
1963	544.1	28.8	0.5	64.0		637.4
1964	645.7	51.6	19.9	52.9		770.1
1965	873.5	22.6	21.5	104.5		1,022.1
1966	203.1	16.6	71.5	14.8		306.0
1967	1,020.5	118.2	102.2	135.5		1,376.4
1968	766.3	17.1	49.5	87.0		919.9
1969	1,364.1	42.5	38.4	141.8		1,586.8
1970	956.9	13.0	137.6	115.5		1,223.0
1971	1,201.3	77.5	86.4	228.6		1,593.8
1972	1,341.8	88.7	61.9	323.6		1,816.0
1973	1,717.2	6.1	81.6	296.7		2,101.6
1974	(1,235.2)	(0.2)	(40.9)	(116.5)		(1,392.8)

1/ Landings of coho salmon prior to 1957 were usually less than 500 fish annually.

Table 7. Columbia River Winter Season Chinook and Steelhead Landings (In Thousands), January-March, 1938-74

Year	Pounds		Numbers	
	Chinook	Steelhead	Chinook	Steelhead
1938	26.4	25.0	1.3	2.6
1939	72.1	179.8	3.6	18.9
1940	151.8	122.3	7.6	12.9
1941	428.4	165.1	21.4	17.4
1942	213.5	109.0	10.7	11.5
1943	50.8	93.8	2.5	9.9
1944	36.7	37.0	1.8	3.9
1945	144.4	99.4	7.2	10.5
1946	138.6	64.5	6.9	6.8
1947	146.3	105.6	7.3	11.1
1948	150.3	93.8	7.5	9.9
1949	45.8	56.4	2.3	5.9
1950	31.0	83.4	1.6	8.8
1951	70.0	114.2	3.5	12.0
1952	127.5	78.3	6.4	8.2
1953	324.7	176.9	16.2	18.6
1954	83.2	152.9	4.2	16.1
1955	73.0	115.7	3.6	12.2
1956	67.1	76.5	3.4	8.0
1957	40.3	60.4	2.0	6.0
1958	140.6	58.6	7.2	6.6
1959	148.5	44.1	7.3	4.3
1960	82.8	52.7	4.6	6.3
1961	107.3	97.2	4.9	9.6
1962	56.5	86.8	2.8	9.9
1963	106.9	69.1	5.4	7.8
1964	116.8	47.5	5.6	5.4
1965	64.4	84.3	3.2	9.5
1966	83.6	66.1	4.1	8.0
1967	139.3	82.8	6.8	8.4
1968	181.4	79.1	8.7	8.4
1969	168.2	107.0	8.6	12.8
1970	252.9	38.3	12.5	3.6
1971	278.0	49.3	13.4	4.7
1972	331.0	90.0	15.8	8.5
1973	337.5	26.3	17.2	2.1
1974	(277.0)	(24.6)	(13.3)	(2.2)

Table 8. Columbia River Spring Season Chinook Landings  
(In Thousands of Pounds), 1938-74

Year	Zones 1-5	Zone 6	Total
1938	1,610.5	97.6	1,708.1
1939	1,278.9	278.1	1,557.0
1940	401.2	239.1	640.3
1941	600.7	439.7	1,040.4
1942	624.7	271.7	896.4
1943	1,118.4	163.8	1,282.2
1944	432.0	204.4	636.4
1945	665.8	178.6	844.4
1946	957.4	139.2	1,096.6
1947	881.9	245.9	1,127.8
1948	1,428.5	403.5	1,832.0
1949	1,496.8	156.1	1,652.9
1950	1,060.2	219.8	1,280.0
1951	1,439.2	472.0	1,911.2
1952	2,152.2	627.9	2,780.1
1953	1,018.0	404.6	1,422.6
1954	855.1	458.3	1,313.4
1955	1,757.1	1,640.7	3,397.8
1956	2,340.3	134.0	2,474.3
1957	1,776.2	16.6	1,792.8
1958	2,104.1	49.3	2,153.4
1959	1,176.6	9.1	1,185.7
1960	866.3	6.3	872.6
1961	980.4	22.5	1,002.9
1962	1,595.0	52.3	1,647.3
1963	1,218.9	127.9	1,346.8
1964	876.7	159.6	1,036.3
1965	1,167.7	272.1	1,439.8
1966	577.6	31.4	609.0
1967	520.1	172.5	692.6
1968	213.4	244.2	477.6
1969	514.5	415.2	929.7
1970	546.4	210.2	756.6
1971	363.3	162.5	525.8
1972	1,076.5	637.9	1,714.4
1973	928.5	533.9	1,462.4
1974	(135.1)	(270.8)	(405.9)

Table 9. Estimated Numbers (In Thousands) of Upriver Spring Chinook Entering the Columbia River, Escapement Above the Commercial Fishery, and Percentage of the Run Landed, 1938-74

Year	Number Landed by Zone			Bonneville Count	Upriver Run <sup>1/</sup>	Escapement	Percentage of Run Landed by Zone	
	1-5	6	1-6				1-5	1-6
1938	94.7	5.7	100.4	--	--	--	--	--
1939	75.2	16.4	91.6	76.7	151.9	60.3	50	60
1940	23.6	14.1	37.7	66.4	90.0	52.3	26	42
1941	35.3	25.9	61.2	72.3	107.6	46.4	33	57
1942	36.7	16.0	52.7	40.5	77.2	24.5	48	68
1943	65.8	9.6	75.4	65.5	131.3	55.9	50	57
1944	25.4	12.0	37.4	30.9	56.3	18.9	45	66
1945	39.2	10.5	49.7	43.5	82.7	33.0	47	60
1946	56.3	8.2	64.5	67.5	123.8	59.3	45	52
1947	51.9	14.5	66.4	133.6	185.5	119.1	28	36
1948	84.0	23.7	107.7	41.7	125.7	18.0	67	86
1949	88.0	9.2	97.2	50.1	138.1	40.9	64	70
1950	62.4	12.9	75.3	57.3	119.7	44.4	52	63
1951	91.0	33.9	124.9	114.9	205.9	81.0	44	61
1952	129.7	35.1	164.8	116.2	245.9	81.1	53	67
1953	59.1	29.0	88.1	170.3	229.4	141.3	26	38
1954	54.0	35.8	89.8	134.8	188.8	99.0	29	48
1955	109.4	114.7	224.1	171.6	281.0	56.9	39	80
1956	153.5	10.5	164.0	63.4	216.9	52.9	71	76
1957	116.6	1.2	117.8	136.4	253.0	135.2	46	47
1958	123.3	3.5	126.8	75.2	198.5	71.7	62	64
1959	76.4	0.6	77.0	61.1	137.5	60.5	56	56
1960	64.3	0.5	64.8	69.6	133.9	69.1	48	48
1961	62.8	1.6	64.4	98.7	161.5	97.1	39	40
1962	108.7	3.7	112.4	91.1	199.8	87.4	54	56
1963	71.8	9.2	81.0	75.5	147.3	66.3	49	55
1964	55.9	11.3	67.2	91.4	168.6	80.1	33	40
1965	73.4	19.7	93.1	84.3	175.5	64.6	42	53
1966	33.3	2.3	40.6	112.7	175.2	110.4	22	23
1967	33.0	11.8	44.8	84.9	151.0	73.1	22	30
1968	13.1	16.0	29.1	99.2	133.5	83.2	10	22
1969	30.7	33.0	63.7	173.6	227.9	140.6	13	28
1970	31.4	14.0	45.4	111.0	183.1	97.0	17	25
1971	22.6	12.7	35.3	125.5	174.6	112.8	13	20
1972	69.9	42.8	112.7	186.1	285.1	143.3	25	40
1973	60.5	34.1	94.6	142.1	245.5	108.0	25	39
1974	(8.4)	(17.5)	(25.9)	86.1	<sup>2/</sup> (110.7)	(68.6)	(8)	(23)

<sup>1/</sup> Beginning in 1964 the estimated size of the run includes the sport catch in the Columbia River below Bonneville Dam. Refer to annotated list of tables, p. 51.

<sup>2/</sup> The recorded count (134.5) was adjusted for a high fallback rate.

Table 10. Minimum Spring Chinook Run (In Thousands of Fish)  
Entering the Columbia River, 1939-74

Year	Upriver Run	Winter Season Catch Zones 1-5	Mayfield Dan Count	Willamette River Run	Minimum Run
1939	151.9	3.6			155.5
1940	90.0	7.6			97.6
1941	107.6	21.4			129.0
1942	77.2	10.7			87.9
1943	131.3	2.5			133.8
1944	56.3	1.8			58.1
1945	82.7	7.2			89.9
1946	123.8	6.9		68.6	199.3
1947	185.5	7.3		59.0	251.8
1948	125.7	7.5		40.1	173.3
1949	138.1	2.3		37.8	178.2
1950	119.7	1.6		24.8	146.1
1951	205.9	3.5		49.6	259.0
1952	245.9	6.4		67.5	319.8
1953	229.4	16.2		96.8	342.4
1954	188.8	4.2		44.4	237.4
1955	281.0	3.6		32.5	317.1
1956	216.9	3.4		77.6	297.9
1957	253.0	2.0		52.3	307.8
1958	198.5	7.2		62.8	268.5
1959	137.5	7.3		53.4	198.2
1960	133.9	4.6		24.2	162.7
1961	161.5	4.9		27.5	193.9
1962	199.8	2.8	3.7	38.2	244.5
1963	147.3	5.4	4.8	48.1	205.6
1964	168.6	5.6	13.6	58.4	246.2
1965	175.5	3.2	20.8	41.0	240.5
1966	175.2	4.1	11.7	44.2	235.2
1967	151.0	6.8	7.9	74.4	240.1
1968	133.5	8.7	9.3	47.5	199.0
1969	227.9	8.6	10.9	52.5	299.9
1970	183.1	12.5	9.1	53.6	258.3
1971	174.6	13.4	5.4	67.4	260.8
1972	285.1	15.8	3.5	47.1	351.5
1973	245.5	17.2	10.6	54.5	327.8
1974	(110.7)	(13.3)	(29.1)	(74.6)	(218.7)

Table 11. Columbia River Summer Season Chinook Landings  
(In Thousands of Pounds), 1938-74

Year	Zones 1-5	Zone 6	Total
1938	2,157.4	29.7	2,187.1
1939	3,368.8	33.8	3,402.6
1940	1,814.2	54.1	1,868.3
1941	1,801.3	143.6	1,944.9
1942	1,404.6	47.3	1,451.9
1943	870.9	17.0	887.9
1944	1,089.7	75.0	1,164.7
1945	500.5	13.9	514.4
1946	416.6	39.8	456.4
1947	948.1	40.6	988.7
1948	393.2	245.6	638.8
1949	221.0	73.2	299.2
1950	394.9	35.9	430.8
1951	586.8	43.1	629.9
1952	549.2	56.3	605.5
1953	606.3	14.0	620.3
1954	521.5	5.5	527.0
1955	971.8	73.0	1,044.8
1956	1,505.9	100.6	1,606.5
1957	1,263.7	3.2	1,266.9
1958	1,367.0	45.7	1,412.7
1959	1,209.0	3.8	1,212.8
1960	773.1	2.5	775.6
1961	889.0	1.6	890.6
1962	513.9	12.4	526.3
1963	517.0	40.6	557.6
1964	173.4	89.9	263.3
1965	--	110.8	110.8
1966	--	18.3	18.3
1967	9.7	160.5	170.2
1968	9.8	21.0	30.8
1969	17.2	130.5	147.7
1970	33.7	56.3	90.0
1971	52.6	85.2	137.8
1972	42.4	69.4	111.8
1973	16.9	34.1	51.0
1974	--	--	--

Table 12. Estimated Numbers (In Thousands) of Upriver Summer Chinook Entering the Columbia River, Escapement Above the Commercial Fishery, and Percentage of the Run Landed, 1938-74 <sup>1/</sup>

Year	Number Landed by Zone			Bonneville Count	Upriver Run	Escape- ment	Percentage of Run Landed by Zone	
	1-5	6	1-6				1-5	1-6
1938	107.9	3.4	111.3	14.8	122.7	11.4	88	91
1939	168.4	3.9	172.3	23.4	191.8	19.5	88	90
1940	90.7	6.2	96.9	22.0	112.7	15.8	80	86
1941	90.1	16.5	106.6	16.4	106.5	--	85	100
1942	70.2	5.4	75.6	24.6	94.8	19.2	74	80
1943	43.5	2.0	45.5	13.5	57.0	11.5	76	80
1944	54.5	8.6	63.1	12.6	67.1	4.0	81	94
1945	25.0	1.6	26.6	27.6	52.6	26.0	48	51
1946	20.8	4.6	25.4	51.2	72.0	46.6	29	35
1947	47.4	4.7	52.1	38.9	86.3	34.2	55	60
1948	19.7	28.2	47.9	67.2	86.9	39.0	23	55
1949	11.1	9.0	20.1	46.7	57.8	37.7	19	35
1950	19.7	4.1	23.8	49.6	69.3	45.5	28	34
1951	37.1	4.4	41.5	79.3	116.4	74.9	32	36
1952	30.2	5.7	35.9	84.3	114.5	78.6	26	31
1953	37.2	1.4	38.6	57.8	95.0	56.4	39	41
1954	35.4	0.6	36.0	79.4	114.8	78.8	31	31
1955	64.7	7.4	72.1	82.9	147.6	75.5	44	49
1956	94.0	9.0	103.0	101.2	195.2	92.2	48	53
1957	72.0	0.3	72.3	135.0	207.0	134.7	35	35
1958	85.6	4.7	90.3	101.9	187.5	97.2	46	48
1959	80.8	0.4	81.2	89.0	169.8	88.6	48	48
1960	57.4	0.3	57.7	85.2	142.6	84.9	40	40
1961	62.7	0.2	62.9	66.5	129.2	66.3	49	49
1962	30.5	1.2	31.7	77.5	108.0	76.3	28	29
1963	36.0	4.1	40.1	64.0	100.0	59.9	36	40
1964	10.6	6.9	17.5	80.5	91.1	73.6	12	19
1965	--	6.9	6.9	76.0	76.0	69.1	--	9
1966	--	1.1	1.1	72.0	72.0	70.9	--	2
1967	0.7	9.5	10.2	95.7	100.8	86.2	1	10
1968	1.4	2.1	3.5	82.9	89.4	80.8	2	4
1969	1.6	9.4	11.0	102.2	107.9	92.8	1	10
1970	3.1	4.0	7.1	65.5	74.7	61.5	4	10
1971	4.5	5.8	10.3	77.9	90.1	72.1	5	11
1972	3.2	4.4	7.6	70.8	78.7	66.4	4	10
1973	1.2	2.0	3.2	45.4	48.9	43.4	2	7
1974	--	--	--	34.0 <sup>2/</sup>	34.0	34.0	--	--

<sup>1/</sup> Beginning in 1967 the estimated size of the run includes the sport catch in the Columbia River below Bonneville Dam. Refer to annotated list of tables, p. 52.

<sup>2/</sup> The recorded count (45.9) was adjusted for a high fallback rate.



Table 13. Columbia River Sockeye Landings (In Thousands of Pounds), 1938-74

Year	Zones 1-5	Zone 6	Total
1938	325.5	99.1	424.6
1939	180.0	89.8	269.8
1940	165.1	196.8	361.9
1941	377.7	128.0	505.7
1942	136.4	56.0	192.4
1943	117.7	28.3	146.0
1944	33.4	21.4	54.8
1945	4.8	3.9	8.7
1946	93.3	35.2	128.5
1947	574.7	143.6	718.3
1948	40.3	55.0	95.8
1949	4.4	19.6	24.0
1950	121.2	48.0	169.2
1951	133.0	36.4	169.4
1952	513.0	95.7	608.7
1953	97.1	49.1	146.2
1954	195.6	47.8	243.4
1955	30.5	169.9	200.4
1956	180.7	106.4	287.1
1957	239.7	0.5	240.2
1958	704.4	19.1	723.5
1959	633.2	2.6	635.8
1960	392.2	1.9	394.1
1961	157.6	0.4	158.0
1962	39.3	12.4	51.7
1963	20.0	28.8	48.8
1964	16.6	51.6	68.2
1965	0.3	22.6	22.9
1966	0.6	16.6	17.2
1967	76.9	118.2	195.1
1968	72.4	17.2	89.6
1969	62.0	42.5	104.5
1970	42.7	13.0	55.7
1971	208.1	77.5	285.6
1972	186.9	88.7	275.6
1973	9.8	6.1	15.9
1974	--	(0.2)	(0.2)

Table 14. Estimated Numbers (In Thousands) of Sockeye Entering the Columbia River, Escapement Above the Commercial Fishery, and Percentage of the Run Landed, 1938-74 <sup>1/</sup>

Year	Number Landed by Zone			Bonneville Count	Run	Escape- ment <sup>2/</sup>	Percentage of Run Landed by Zone	
	1-5	6	1-6				1-5	1-6
1938	93.0	32.6	125.6	75.0	168.0	17.1	55	75
1939	51.4	29.6	81.0	73.4	124.8	19.6	41	65
1940	47.2	64.7	111.9	148.8	196.0	26.9	24	57
1941	107.9	42.1	150.0	65.7	173.6	0.9	62	86
1942	39.0	18.4	57.4	55.5	94.5	16.3	41	61
1943	33.6	9.3	42.9	39.8	73.4	17.7	46	58
1944	9.5	7.0	16.5	15.1	24.6	4.9	39	67
1945	1.4	1.3	2.7	9.5	10.9	7.1	13	25
1946	26.7	11.6	38.3	74.4	101.1	45.0	26	38
1947	164.2	47.2	211.4	171.1	335.3	79.8	49	63
1948	11.7	18.1	29.8	131.5	143.2	84.2	8	21
1949	1.2	6.5	7.7	51.4	52.6	18.6	2	15
1950	34.6	15.8	50.4	78.0	112.6	50.1	31	45
1951	34.3	12.0	46.3	169.4	203.7	101.8	17	23
1952	134.3	31.5	165.8	184.6	318.9	114.3	42	52
1953	24.8	16.2	41.0	235.2	260.0	151.7	10	16
1954	49.9	17.5	67.4	130.1	180.0	91.2	28	37
1955	7.3	52.4	59.7	237.7	245.0	155.1	3	24
1956	45.6	35.7	81.3	156.4	202.0	92.4	23	40
1957	64.9	0.2	65.1	82.9	147.8	71.3	44	44
1958	190.9	6.3	197.2	122.4	313.3	98.7	61	63
1959	184.1	0.9	185.0	86.6	270.7	72.4	68	68
1960	119.4	0.6	120.0	59.7	179.1	60.3	67	67
1961	40.6	0.1	40.7	17.1	57.7	19.2	70	71
1962	10.5	3.8	14.3	28.2	38.7	29.3	27	37
1963	5.1	8.9	14.0	60.3	65.4	64.8	8	21
1964	5.0	15.8	20.8	99.9	104.9	69.4	5	20
1965	0.1	5.8	5.9	55.1	55.2	42.4	--	11
1966	0.2	4.2	4.4	156.7	169.2 <sup>1/</sup>	164.5	--	3
1967	21.2	34.5	55.7	144.2	165.4	105.0	13	34
1968	20.3	5.0	25.3	108.2	134.7 <sup>3/</sup>	108.3	15	19
1969	16.2	11.3	27.5	59.6	67.5	39.2	24	41
1970	13.0	4.1	17.1	70.8	95.3	77.4	14	18
1971	54.9	21.3	76.2	87.4	150.5	73.8	36	49
1972	51.8	26.1	77.9	56.3	123.3	45.0	42	63
1973	2.3	1.4	3.7	59.0	58.4	54.5	4	6
1974	--	(<0.1)	(<0.1)	43.9	(35.6)	(35.4)	--	--

<sup>1/</sup> Refer to discussion of tables, p. 52.

<sup>2/</sup> Rock Island count used for 1938-67 and Priest Rapids count used since then.

<sup>3/</sup> Since 1968 run size is Zones 1-6 landings plus Ice Harbor and Priest Rapids count.

Table 15. Columbia River Summer Steelhead Landings  
(In Thousands of Pounds), 1938-74

Year	Zones 1-5	Zone 6	Total
1938	1,287.3	343.3	1,630.6
1939	998.9	231.8	1,230.7
1940	2,158.2	475.7	2,633.9
1941	1,996.4	487.0	2,483.4
1942	1,321.9	373.5	1,695.4
1943	1,126.8	285.8	1,412.6
1944	1,208.4	378.0	1,586.4
1945	1,384.3	341.8	1,726.1
1946	1,171.0	412.5	1,583.5
1947	1,164.4	350.0	1,514.4
1948	931.0	388.2	1,319.2
1949	411.0	330.7	741.7
1950	601.9	224.9	826.8
1951	808.7	267.4	1,076.1
1952	911.0	417.0	1,328.0
1953	1,125.6	527.4	1,653.0
1954	1,039.5	208.6	1,248.1
1955	815.6	333.6	1,149.2
1956	508.2	179.2	687.4
1957	678.0	1.2	679.2
1958	588.9	28.3	617.2
1959	623.8	4.8	628.6
1960	662.0	7.8	669.8
1961	604.0	14.4	618.4
1962	633.1	3.4	636.5
1963	839.1	64.0	903.1
1964	324.6	52.9	377.5
1965	321.3	104.5	425.8
1966	312.5	14.8	327.3
1967	227.0	135.5	362.5
1968	261.4	87.0	348.4
1969	241.5	141.8	383.3
1970	154.6	115.51	188.3
1971	188.3	226.8	415.1
1972	252.1	326.1	578.2
1973	309.4	288.3	597.7
1974	(44.3)	(114.7)	(159.0)

Table 16. Estimated Numbers (In Thousands) of Summer Steelhead Entering the Columbia River, Escapement Above the Commercial Fishery, and Percentage of the Run Landed, 1938-74 <sup>1/</sup>

Year	Number Landed by Zone			Bonneville Count	Run	Escape- ment	Percentage of Run Landed by Zone	
	1-5	6	1-6				1-5	1-6
1938	143.0	38.1	181.1	106.6	249.6	68.5	57	73
1939	111.0	25.8	136.8	121.0	232.0	95.2	48	59
1940	239.8	52.9	292.7	183.0	422.8	130.1	57	69
1941	221.8	54.1	275.9	115.0	336.8	60.9	66	82
1942	146.9	41.5	188.4	150.3	297.2	108.8	49	63
1943	125.2	31.8	157.0	90.8	216.0	59.0	58	73
1944	134.3	42.0	176.3	98.0	232.3	56.0	58	76
1945	153.8	38.0	191.8	114.6	268.4	76.6	57	71
1946	130.1	45.8	175.9	137.9	268.0	92.1	49	66
1947	129.4	38.9	168.3	132.4	261.8	93.5	49	64
1948	103.4	43.1	146.5	136.7	240.1	93.6	43	61
1949	45.7	36.7	82.4	116.8	162.5	80.1	28	51
1950	66.9	25.0	91.9	112.1	179.0	87.1	37	51
1951	104.4	37.5	141.9	140.1	244.5	102.6	43	58
1952	123.0	57.2	180.2	260.1	383.1	202.9	32	47
1953	139.6	65.9	205.5	221.7	361.3	155.8	39	57
1954	114.5	23.5	138.0	175.0	289.5	151.5	40	48
1955	101.7	48.7	150.4	197.1	298.8	148.4	34	50
1956	71.6	27.9	99.5	129.1	200.7	101.2	36	50
1957	91.6	0.2	91.8	138.0	229.6	137.8	40	40
1958	80.5	4.1	84.6	130.7	211.2	126.6	38	40
1959	103.0	0.8	103.8	128.6	231.6	127.8	44	45
1960	36.7	1.3	88.0	113.1	199.8	111.8	43	44
1961	89.2	1.5	90.7	138.7	227.9	137.2	39	40
1962	88.7	0.5	89.2	163.0	251.7	162.5	35	35
1963	100.4	8.5	108.9	128.4	228.8	119.9	44	48
1964	43.7	6.7	50.4	116.2	178.5	109.5	24	28
1965	41.6	13.2	54.8	165.6	226.8	152.4	18	24
1966	36.3	3.1	39.4	142.9	208.3	139.8	17	19
1967	25.9	15.8	41.7	120.0	166.4	104.2	16	25
1968	27.1	9.4	36.5	106.5	161.4	97.1	17	23
1969	21.3	14.1	35.4	139.3	180.0	125.2	12	20
1970	16.1	13.2	29.3	113.2	143.3	100.0	11	20
1971	20.6	25.7	46.3	193.1	238.5	167.4	9	19
1972	24.9	28.8	53.7	185.3	230.0	156.5	11	23
1973	22.7	26.8	49.5	156.6	191.5	129.8	12	26
1974	(4.0)	(12.9)	(16.9)	136.6	(146.1)	(123.7)	(3)	(12)

<sup>1/</sup> Beginning in 1964 the estimated size of the run includes the sport catch in the Columbia River below Bonneville Dam. Refer to annotated list of tables, p. 53.

Table 17. Columbia River Fall Season Chinook Landings  
(In Thousands of Pounds), August-December,  
1938-74

Year	Zones 1-5	Zone 6	Total
1938	6,948.9	1,543.4	8,492.3
1939	7,285.0	1,182.1	8,467.1
1940	8,792.7	2,063.0	10,855.7
1941	16,060.8	3,756.1	19,816.9
1942	12,843.8	3,254.3	16,098.1
1943	7,336.2	1,869.4	9,205.6
1944	10,250.0	1,583.1	11,833.1
1945	9,705.1	1,185.9	10,891.0
1946	10,093.2	2,491.4	12,584.6
1947	11,912.4	3,125.9	15,038.3
1948	11,772.1	2,998.0	14,770.1
1949	7,393.7	1,389.4	8,783.1
1950	6,761.2	1,915.8	8,677.0
1951	6,270.3	1,148.0	7,418.3
1952	2,346.5	1,402.8	3,749.3
1953	3,695.5	866.7	4,562.2
1954	2,858.6	530.5	3,389.1
1955	3,667.8	398.8	4,066.6
1956	3,543.0	487.7	4,030.7
1957	2,782.8	36.1	2,818.9
1958	2,672.0	55.4	2,727.4
1959	2,028.1	19.2	2,047.3
1960	2,171.3	25.7	2,197.0
1961	2,067.1	92.3	2,159.4
1962	3,156.8	80.4	3,237.2
1963	1,959.2	375.6	2,334.8
1964	2,671.4	396.2	3,067.6
1965	4,037.4	490.5	4,527.9
1966	2,747.8	153.4	2,901.2
1967	3,284.6	687.5	3,972.1
1968	2,906.2	501.1	3,407.3
1969	3,711.9	818.3	4,530.2
1970	4,671.8	690.4	5,362.2
1971	4,072.0	953.6	5,025.6
1972	2,892.9	634.5	3,527.4
1973	5,552.3	1,148.3	6,700.6
1974	(1,981.2)	(963.7)	(2,944.9)

Table 18. Upriver and Minimum Run Estimates (In Thousands of Fish)  
for Fall Chinook Entering the Columbia River, 1938-74

Year	Zones 1-5	Bonne- ville Count	Upriver Run	Zones 1-5	Lower Columbia River		Minimum Run
	August Catch			Sept-Dec Catch	Hatchery	Dam Counts	
1938	281.5	234.7	516.2	66.0			582.2
1939	293.8	186.1	479.9	70.4			550.3
1940	254.6	303.2	557.8	185.1			742.9
1941	305.2	372.7	677.9	497.8			1,175.7
1942	290.6	336.8	627.4	351.6			979.0
1943	213.1	234.1	447.2	153.7			600.9
1944	398.5	197.3	595.8	114.0			709.8
1945	339.5	226.4	565.9	145.8			711.7
1946	342.2	327.3	669.5	162.4			831.9
1947	452.7	308.0	760.7	142.9			903.6
1948	370.9	310.6	681.5	217.7			899.2
1949	265.5	180.9	446.4	104.1			550.5
1950	218.1	250.5	468.6	120.0			588.6
1951	195.1	137.6	332.7	52.9			385.6
1952	21.9	220.4	242.3	80.7			323.0
1953	108.6	104.4	213.0	44.3			257.3
1954	85.4	106.8	192.2	39.7			231.9
1955	126.6	105.3	231.9	49.6			281.5
1956	162.2	136.3	298.5	14.2			312.7
1957	120.4	131.8	252.2	24.4			276.6
1958	78.9	249.3	328.2	65.0			393.2
1959	78.9	194.9	273.8	22.2			296.0
1960	128.7	101.3	230.0	8.1	8.0		246.1
1961	89.6	116.8	206.4	26.1	13.9	5.9	252.3
1962	127.2	118.0	245.2	31.7	10.9	2.8	290.6
1963	67.6	139.1	206.7	31.4	21.8	5.2	265.1
1964	107.3	172.5	279.8	47.2	34.9	10.3	372.2
1965	146.2	157.7	303.9	57.1	27.4	10.8	399.2
1966	112.4	155.4	267.8	33.8	31.0	15.2	347.8
1967	121.9	185.6	307.5	36.9	28.6	12.0	385.0
1968	50.6	159.2	209.8 <sup>1/</sup>	99.0 <sup>1/</sup>	25.6	11.9	346.3
1969	108.0	231.8	339.8	78.3	42.4	7.0	467.5
1970	149.6	208.9	358.5	102.8	56.6	7.6	525.5
1971	93.8	202.3	296.1	122.1	57.1	4.9	480.2
1972	96.3	137.5	233.8	43.4	42.6	11.8	331.6
1973	105.4	211.1	316.5	165.3	49.4	22.2	553.4
1974	(52.2)	186.0	(238.2)	(45.1)	(35.8)	34.2	(353.3)

<sup>1/</sup> About 20,000 fish caught during a special fishery in Zone 1 from September 5-7 are considered part of the upriver run but not subtracted from the September-December catch and added to the upriver run in this table.

Table 19. Estimated Numbers (In Thousands) of Fall Chinook in the Minimum Run Entering the Columbia River, Escapement Above the Commercial Fishery, and Percentage of the Run Landed, 1938-74

Year	Number Landed by Zone			Bonne-ville Count	Minimum Run	Upriver Escape- ment	Percentage of Run Landed by Zone	
	1-5	6	1-6				1-5	1-6
1938	347.5	77.2	424.7	234.7	582.2	157.5	60	73
1939	364.2	59.1	423.3	186.1	550.3	127.0	66	77
1940	439.7	103.2	542.9	303.2	742.9	200.0	59	73
1941	803.0	187.8	990.8	372.7	1,175.7	184.9	68	84
1942	642.2	162.7	804.9	336.8	979.0	174.1	66	82
1943	366.8	93.5	460.3	234.1	600.9	140.6	61	77
1944	512.5	79.2	591.7	197.3	709.8	118.1	72	83
1945	485.3	59.3	544.6	226.4	711.7	167.1	68	77
1946	504.6	124.6	629.2	327.3	831.9	202.7	61	76
1947	595.6	156.3	751.9	308.0	903.6	151.7	66	83
1948	588.6	149.9	738.5	310.6	899.2	160.7	65	82
1949	369.6	69.5	439.1	180.9	550.5	111.4	67	80
1950	338.1	95.8	433.9	250.5	588.6	154.7	57	74
1951	248.0	57.1	305.1	137.6	385.6	80.5	64	79
1952	102.6	77.2	179.8	220.4	323.0	143.2	32	56
1953	152.9	49.3	202.2	104.4	257.3	55.1	59	79
1954	125.1	44.0	169.1	106.8	231.9	62.8	54	73
1955	176.2	29.7	205.9	105.3	281.5	75.6	63	73
1956	176.4	38.2	214.6	136.3	312.7	98.1	56	69
1957	144.8	2.2	147.0	131.8	276.6	129.6	52	53
1958	143.9	3.5	147.4	249.3	393.2	245.8	37	37
1959	101.1	1.2	102.3	194.9	296.0	193.7	34	35
1960	136.8	1.6	138.4	101.3	246.1	99.7	56	56
1961	115.7	5.7	121.4	116.8	252.3	111.1	46	48
1962	158.9	5.0	163.9	118.0	290.6	113.0	55	56
1963	99.0	23.5	122.5	139.1	265.1	115.6	37	46
1964	154.5	24.5	179.0	172.5	372.2	148.0	42	48
1965	203.3	29.0	232.3	157.7	399.2	128.7	51	58
1966	146.2	9.0	155.2	155.4	347.8	146.4	42	45
1967	158.8	42.0	200.8	185.6	385.0	143.6	41	52
1968	149.6	29.1	178.7	159.2	346.3	130.1	43	52
1969	186.3	48.3	234.6	231.8	467.5	183.5	40	50
1970	252.4	39.1	291.5	208.9	525.5	169.8	48	55
1971	215.9	56.5	272.4	202.3	480.2	145.8	45	57
1972	139.7	42.9	182.6	137.5	331.6	94.6	42	55
1973	270.7	67.9	338.6	211.1	553.4	143.2	49	61
1974	(97.3)	(53.9)	(151.2)	186.0	353.3	(132.1)	28	43

Table 20. Components of the Upriver Fall Chinook Escapement (In Thousands of Fish) Above Bonneville Dam, 1938-74

Year	Bonneville Pool	Natural Spawning		
	Hatchery Returns	McNary Dam Count	Ice Harbor Dam Count	Priest Rapids Dam Count
1938	31.1			
1939	23.0			
1940	35.1			
1941	32.0			
1942	32.4			
1943	17.8			
1944	21.6			
1945	21.8			
1946	30.5			
1947	37.1			
1948	52.6			
1949	29.9			
1950	45.7			
1951	41.2			
1952	40.1			
1953	21.8			
1954	24.2	14.0		
1955	20.6	17.3		
1956	25.8	11.9		
1957	36.6	71.3		
1958	78.4	98.0		
1959	53.8	56.2		
1960	27.6	48.0		9.6
1961	21.1	41.5		14.9
1962	23.8	44.5	30.0	14.0
1963	24.9	58.1	13.5	20.0
1964	28.1	58.5	11.1	19.2
1965	13.3	76.2	12.4	23.4
1966	34.2	75.1	15.0	20.7
1967	16.0	73.1	19.0	17.3
1968	15.9	72.8	24.4	15.3
1969	23.1	79.4	16.9	16.1
1970	10.8	61.5	10.2	19.9
1971	12.8	69.7	11.0	12.5
1972	9.2	49.3	9.4	9.1
1973	18.8	73.3	8.4	10.1
1974	13.6	62.0	2.8	7.6



Table 21. Columbia River Coho Landings (In Thousands),  
1938-74

Year	Pounds Landed by Zone			Numbers Landed by Zone		
	1-5	6	1-6	1-5	6	1-6
1938	2,309.9	1.1	2,311.0	256.7	0.2	256.9
1939	1,528.3	1.4	1,529.7	169.8	0.2	170.0
1940	1,372.4	0.8	1,373.2	152.5	0.1	152.6
1941	1,022.4	22.6	1,045.0	113.6	3.2	116.8
1942	642.7	1.8	644.5	71.4	0.3	71.7
1943	705.6	0.7	706.3	78.4	0.1	78.5
1944	1,529.7	3.6	1,533.3	170.0	0.5	170.5
1945	1,834.3	1.2	1,835.5	203.8	0.2	204.0
1946	1,058.4	1.2	1,059.6	117.6	0.2	117.8
1947	1,484.8	13.3	1,498.1	165.0	1.9	166.9
1948	1,173.3	1.4	1,174.7	130.4	0.2	130.6
1949	897.7	1.5	899.2	99.7	0.2	99.9
1950	1,041.4	6.6	1,048.0	115.7	0.9	116.6
1951	964.9	3.1	968.0	107.2	0.4	107.6
1952	1,066.6	7.4	1,074.0	118.5	1.1	119.6
1953	434.5	23.0	457.5	48.3	3.3	51.6
1954	295.5	7.9	303.4	32.8	1.1	33.9
1955	525.2	73.6	598.8	58.4	10.5	68.9
1956	447.4	12.6	460.0	49.7	1.8	51.5
1957	390.5	0.2	390.7	46.2	0.1	46.3
1958	165.9	1.7	167.6	18.5	0.2	18.7
1959	119.5	0.2	119.5	15.1	0.1	15.2
1960	158.0	1.1	159.1	17.5	0.2	17.7
1961	379.1	3.5	382.6	37.2	0.5	37.7
1962	582.5	17.5	600.0	62.8	2.5	65.3
1963	500.6	0.5	501.1	65.1	0.1	65.2
1964	1,943.6	19.9	1,963.5	203.7	2.5	206.2
1965	1,880.3	21.5	1,901.8	231.5	3.2	234.7
1966	4,317.6	71.5	4,389.1	415.5	8.3	423.8
1967	3,715.7	102.2	3,817.9	368.8	13.6	382.4
1968	912.7	49.5	962.2	125.1	7.6	132.7
1969	1,624.9	38.4	1,663.3	190.1	7.8	197.9
1970	5,608.0	137.6	5,745.6	520.8	15.5	536.3
1971	2,191.5	86.4	2,277.9	264.3	13.1	277.4
1972	1,177.5	61.9	1,239.4	131.3	8.7	140.0
1973	1,823.2	81.6	1,904.7	183.7	11.1	194.8
1974	(2,441.1)	(40.9)	(2,482.0)	(266.2)	(6.7)	(272.9)

Table 22. Estimated Numbers (In Thousands) of Coho Salmon  
In the Minimum Run Entering the Columbia River, 1960-74

Year	Zones 1-5 Catch		Bonneville Count	Lower Columbia River		Minimum Run
	Commercial	Sport		Hatchery	Dam Counts	
1960	17.5	--	3.3	23.6	3.3	47.7
1961	37.2	--	3.5	44.4	27.3	112.4
1962	62.8	--	14.8	79.5	27.6	184.7
1963	65.1	--	12.7	58.6	25.5	161.9
1964	203.7	9.7	53.6	157.8	29.1	453.9
1965	231.5	2.0	76.0	172.5	37.0	519.0
1966	415.5	11.0	71.9	250.2	37.3	785.9
1967	368.8	12.0	96.5	181.7	35.2	694.2
1968	125.1	5.5	63.5	191.4	38.4	423.9
1969	190.1	3.0	49.4	199.8	19.9	462.2
1970	520.8	13.8	80.1	393.4	40.7	1,048.8
1971	264.3	8.0	75.4	254.2	20.3	622.2
1972	131.3	2.5	65.9	130.4	17.9	348.0
1973	183.7	5.2	54.6	162.2	7.4	413.1
1974	(266.2)	(0.7)	61.0	192.2	6.3	(526.4)

Table 23. Columbia River Escapement of Coho as Measured by Spawning Ground Counts from Selected Early and Late Run Tributaries, 1952-74

Year	Early Run			Late Run		
	Miles Surveyed	Fish Observed	Fish/Mile	Miles Surveyed	Fish Observed	Fish/Mile
1952	4.0	1,309	327	7.1	354	50
1953	4.5	1,335	296	7.1	132	19
1954	4.7	405	86	7.1	209	29
1955	3.7	602	163	3.6	94	26
1956	4.7	852	181	7.1	358	50
1957	4.7	678	144	7.1	368	52
1958	4.2	150	36	7.1	139	20
1959	4.4	354	80	6.1	128	21
1960	4.7	280	60	7.1	160	23
1961	4.2	958	228	7.1	137	19
1962	4.2	485	115	7.1	178	25
1963	4.2	215	51	7.1	116	16
1964	4.2	289	69	4.5	185	41
1965	4.2	215	51	7.1	125	18
1966	4.2	402	96	7.1	241	34
1967	--	--	--	7.1	144	20
1968	1.7	178	102	3.6	90	25
1969	--	--	--	7.1	288	41
1970	--	--	--	7.1	236	33
1971	--	--	--	7.1	73	10
1972	--	--	--	7.1	108	15
1973	--	--	--	7.1	26	4
1974	--	--	--	3.6	21	6

Table 24. Columbia River Chum Landings (In Thousands),  
1938-74

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

Table 25. Columbia River Escapement of Chum  
as Measured by Spawning Ground  
Counts from Selected Washington  
Tributaries, 1950-74

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	1,036	167
1973	4.3	403	94
1974	6.5	277	43

Table 26. Columbia River Shad Landings (In Thousands),  
1938-74

Year	Pounds Landed by Zone			Numbers Landed by Zone		
	1-5	6	1-6	1-5	6	1-6
1938	168.0	1.7	169.7	44.8	0.4	45.2
1939	350.7	2.6	353.4	93.5	0.7	94.2
1940	349.7	14.7	364.5	93.2	3.9	97.2
1941	376.1	5.0	381.1	100.3	1.3	101.6
1942	509.3	9.6	518.9	135.8	2.6	138.4
1943	321.4	2.2	323.6	85.7	0.6	86.2
1944	589.8	3.3	593.1	157.2	0.9	158.1
1945	877.8	32.2	910.0	234.1	8.6	242.7
1946	1,428.7	14.0	1,442.6	380.9	3.7	384.6
1947	1,291.2	6.1	1,297.3	344.3	1.6	345.9
1948	394.5	0.9	395.4	105.2	0.2	105.4
1949	429.7	7.2	436.9	114.5	1.9	116.5
1950	631.9	1.2	633.2	168.5	0.3	168.8
1951	406.2	0.3	406.5	108.3	0.1	108.4
1952	342.4	0.3	342.7	91.3	0.1	91.4
1953	275.8	--	275.8	73.5	--	73.5
1954	246.4	--	246.4	65.7	--	65.7
1955	285.0	--	285.0	76.0	--	76.0
1956	245.4	0.1	245.5	65.4	--	65.4
1957	150.1	--	150.1	40.0	--	40.0
1958	193.4	--	193.4	51.6	--	51.6
1959	135.6	--	135.6	36.2	--	36.2
1960	160.9	9.4	170.3	42.9	2.5	45.4
1961	405.9	0.3	406.2	108.2	0.1	108.3
1962	883.5	10.9	894.4	235.6	2.9	238.5
1963	799.7	59.6	859.3	213.2	15.9	229.1
1964	251.8	53.5	305.3	67.1	14.2	81.4
1965	327.2	27.7	354.9	87.2	7.4	94.6
1966	770.6	15.8	786.4	205.5	4.2	209.7
1967	831.8	21.4	853.2	221.8	5.7	227.5
1968	305.7	5.1	310.8	81.5	1.4	82.9
1969	170.8	8.0	178.8	45.5	2.1	47.7
1970	228.1	22.6	250.7	59.1	6.4	65.5
1971	155.9	24.1	180.0	40.3	6.7	47.0
1972	216.7	16.8	233.5	55.3	4.9	60.2
1973	191.9	18.8	210.7	49.1	4.8	53.9
1974	(178.9)	(14.5)	(193.4)	(45.4)	(3.6)	(49.0)

Table 27. Smelt Landings From the Columbia River and Its Tributaries (In Thousands of Pounds), 1938-74

Year	Columbia River	Tributaries	Total
1938	866.7	174.7	1,041.4
1939	721.6	2,374.8	3,096.4
1940	820.2	2,262.1	3,082.3
1941	193.2	2,338.6	2,531.8
1942	318.6	2,367.4	2,686.0
1943	643.0	3,334.2	3,977.2
1944	572.7	1,695.7	2,268.4
1945	633.3	5,085.9	5,719.2
1946	253.2	3,022.8	3,276.0
1947	352.3	1,192.6	1,544.9
1948	1,015.8	2,958.2	3,974.0
1949	919.1	2,414.5	3,333.6
1950	912.7	612.3	1,525.0
1951	1,337.6	180.7	1,518.3
1952	867.1	410.7	1,277.8
1953	439.3	1,276.1	1,715.4
1954	673.9	1,210.4	1,884.3
1955	887.5	1,349.6	2,237.1
1956	877.4	804.5	1,681.9
1957	377.5	1,202.7	1,580.2
1958	373.3	2,243.1	2,616.4
1959	760.0	996.1	1,756.1
1960	185.7	986.5	1,172.2
1961	466.4	585.8	1,052.2
1962	690.3	783.3	1,473.6
1963	222.3	854.8	1,077.1
1964	452.9	388.9	841.8
1965	828.7	82.1	910.8
1966	712.2	316.1	1,028.3
1967	357.1	643.7	1,000.8
1968	133.3	815.2	948.5
1969	113.7	976.4	1,090.1
1970	238.2	960.7	1,198.9
1971	364.5	1,397.2	1,761.7
1972	304.1	1,339.4	1,643.5
1973	132.0	2,302.4	2,434.4
1974	(868.4)	1,492.8	(2,361.2)

Table 28. Columbia River White and Green Sturgeon Landings  
(In Thousands of Pounds), 1938-74

Year	Zones 1-5	White Zone 6	Total	Green Total
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	325.3	33.0
1951	225.5	31.9	257.4	22.3
1952	233.4	37.4	270.8	35.1
1953	322.7	23.8	346.5	34.7
1954	293.5	17.6	311.1	30.1
1955	202.8	20.1	222.9	70.3
1956	227.6	16.3	243.9	50.7
1957	303.6	8.1	311.7	112.8
1958	240.4	16.4	256.8	76.6
1959	167.5	35.9	203.4	192.2
1960	173.1	11.0	184.1	71.3
1961	173.9	9.3	183.2	119.2
1962	184.7	8.1	200.6	65.3
1963	207.8	4.2	212.2	50.3
1964	135.8	3.8	139.6	30.0
1965	150.1	7.9	158.0	32.4
1966	194.2	5.0	199.2	70.9
1967	150.9	8.6	159.5	46.1
1968	141.1	10.6	151.7	24.7
1969	293.2	16.6	309.8	68.4
1970	250.1	15.3	265.4	51.1
1971	280.2	31.3	311.5	52.4
1972	297.5	30.5	328.0	46.2
1973	389.5	41.5	431.0	34.5
1974	(345.8)	(26.6)	(372.4)	(121.8)



Table 29. Numbers of Spring and Summer Chinook and Summer Steelhead Caught by the Sport Fishery on the Columbia River Below Bonneville Dam, 1964-74 <sup>1/</sup>

Year	Spring Chinook		Summer Chinook		Summer Steelhead				
	Oregon	Washington	Oregon	Washington	Oregon	Washington			
1964	14.5	6.8	21.3	--	--	9.3	9.3	18.6	
1965	10.9	6.9	17.8	--	--	10.2	9.4	19.6	
1966	14.3	9.9	24.2	--	--	14.9	14.2	29.1	
1967	23.2	9.9	33.1	2.7	1.7	4.4	9.2	11.3	20.5
1968	15.7	5.5	21.2	3.3	1.8	5.1	12.4	15.4	27.8
1969	17.5	6.1	23.6	2.5	1.6	4.1	8.3	10.6	19.4
1970	28.8	11.9	40.7	3.3	2.8	6.1	6.1	7.9	14.0
1971	18.0	8.5	26.5	4.5	3.2	7.7	10.1	14.7	24.8
1972	23.0	6.1	29.1	2.0	2.7	4.7	7.0	12.8	19.8
1973	26.5	16.4	42.9	1.2	1.4	2.6	5.7	6.3	12.2
1974 <sup>2/</sup>	Estimated		(16.2)	Estimated		(0)	Estimated		(5.5)

<sup>1/</sup> Refer to annotated list of tables. Oregon catch data are corrected for nonresponse bias. Washington data includes jacks.

<sup>2/</sup> In 1974 Washington shore anglers were not sampled in July and August and catch is not reflected in summer chinook and steelhead figures. Also, the sport fishery sampling program ends in September and later catches of summer steelhead are not included.

Table 30. Commercial Fishing Seasons for the Columbia River, 1974

Below Bonneville DamOpen Area--Waters west of a line 5 miles below Bonneville Dam.Regular Open Season--Main Columbia River Zones 1-5 (49 days)

February 24, 6:00 PM to March 5, 6:00 PM 1/  
 May 10, 6:00 PM to May 11, 6:00 PM  
 August 11, 6:00 PM to August 16, 6:00 PM 1/  
 August 18, 6:00 PM to August 23, 6:00 PM 2/  
 September 17, 6:00 PM to September 20, 6:00 PM  
 September 22, 6:00 PM to September 27, 6:00 PM  
 September 29, 6:00 PM to October 4, 6:00 PM  
 October 7, 6:00 PM to October 11, 6:00 PM  
 October 14, 6:00 PM to October 18, 6:00 PM  
 October 21, 6:00 PM to October 25, 6:00 PM  
 October 28, 6:00 PM to November 1, 6:00 PM

Regular Smelt Season--Saturday, 12:00 noon to Wednesday, 12:00 midnight  
 of any week in the main Columbia River. Maximum  
 mesh size is 2".

Special SeasonsYoungs Bay

Salmon

September 17, 6:00 PM to November 1, 6:00 PM

Grays Bay (Area 3)

Salmon

September 29, 6:00 PM to November 1, 6:00 PM

Weekly fishing periods are the same as for the main river.

Columbia River--Gary Island to Bonneville Dam

Shad

No season

John Day River and Youngs Bay Set-Net Season (Clatsop County)

Shad

May 10, 6:00 PM to June 30, 6:00 PM

Gear restricted to single-wall floater set nets of 5 1/2 to  
6" mesh size. Shad and sturgeon only.Washougal Reef--Taylors Slough

Shad

May 27, 6:00 PM to July 21, noon

Except for weekend closures from noon Saturday to 6:00 PM Sunday

1/ Restricted to a minimum mesh size of 7 1/4" stretch measure.2/ Restricted to a minimum size of 7 1/4" stretch measure in the area  
upstream from the Longview Bridge.

Table 30. (Continued)

Gear

Gill net--maximum length 1,500'. Bag or dip-net measure, not more than 36" across bag frame.

Above Bonneville Dam

Open Area--From The Bridge of the Gods upstream to the Umatilla River, Oregon. Known as the "Bonneville-Umatilla Fishing Area." Specified closed areas.

Regular Open Season (98 days) <sup>1/</sup>

February 1, 12:00 noon to March 5, 12:00 noon

May 10, 12:00 noon to May 12, 12:00 noon

August 8, 12:00 noon to September 7, 12:00 noon

September 15, 12:00 noon to October 18, 12:00 noon

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<sup>1/</sup> The Yakima tribe fished from April 10 to May 1 under tribal regulations not authorized by the state.